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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 under 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 Opel Service Partner.

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

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

## Using this manual


- 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.
- Depending on the model variant, country variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Manual.

## 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".

We wish you many hours of pleasurable driving

**Adam Opel GmbH**




## In brief

### Initial drive information

#### Vehicle unlocking



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

Pressing the button , only the load compartment is unlocked and opens.

Remote control ⇨ 20, Central locking system ⇨ 21, Load compartment ⇨ 24.

#### Seat adjustment

#### Seat positioning



Pull handle, slide seat, release handle.

Seat adjustment ⇨ 37, Seat position ⇨ 36.

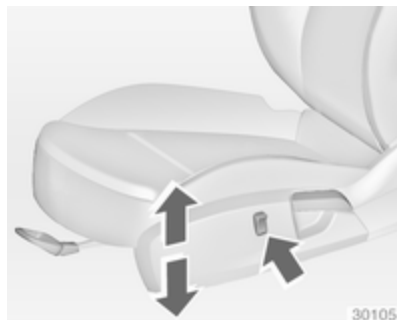
### Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly. Do not lean on backrest when adjusting.

Seat adjustment ⇨ 37, Seat position ⇨ 36.

### Seat height



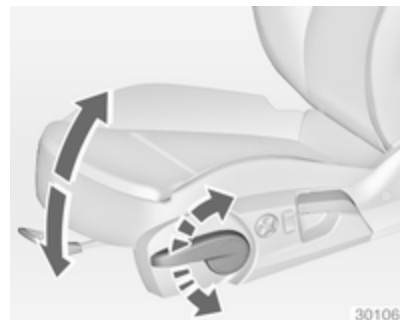
Press switch

top = seat higher

bottom = seat lower

Seats ⇨ 37, Seat position ⇨ 36.

### Seat inclination



Lever pumping motion

up = front end higher

down = front end lower

Seats ⇨ 37, Seat position ⇨ 36.

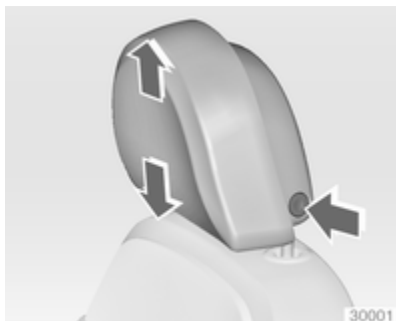
### Power seat adjustment



Operate switches.

- positioning = move switch forwards/backwards
- height = move switch upwards/downwards
- inclination = move switch upwards/downwards at front
- backrest = turn switch forwards/backwards

### Head restraint adjustment



Press release button, adjust height, engage.

Head restraints ⇨ 35.

### Seat belt



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 must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 42, Airbag system ⇨ 45, Seat position ⇨ 36.



## Mirror adjustment

### Interior mirror



Turn the lever on the underside to reduce dazzle.

Interior mirror ⇨ 29, Automatic anti-dazzle interior mirror ⇨ 30.

### Exterior mirrors



Select the relevant exterior mirror and adjust.

Electric adjustment ⇨ 27, Convex exterior mirrors ⇨ 27, Folding exterior mirrors ⇨ 28, Heated exterior mirrors ⇨ 29.

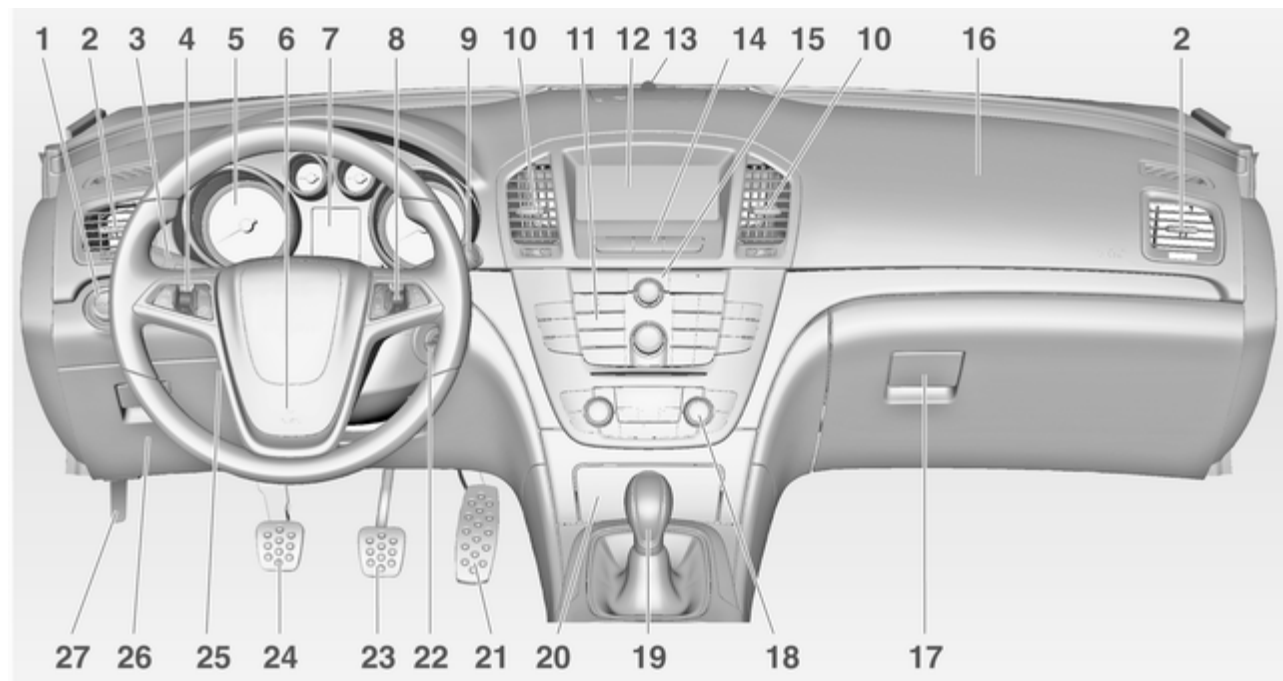
### Steering wheel adjustment



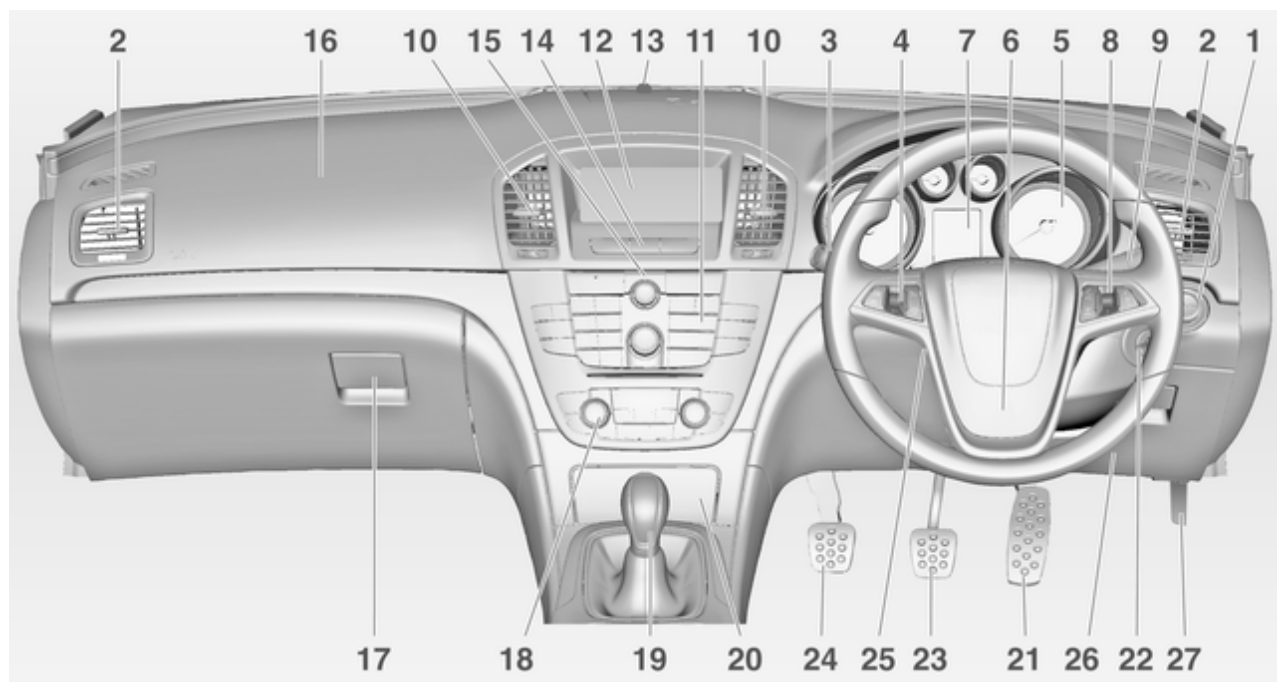
Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Airbag system ⇨ 45, Ignition positions ⇨ 111.

## Instrument panel overview



- 
- |  |  |   |
|--|--|---|
| <p><b>1</b> Light switch ..... ⇨ 89</p> <p>Headlight range<br/>adjustment ..... ⇨ 92</p> <p>Front fog lights ..... ⇨ 93</p> <p>Rear fog light ..... ⇨ 94</p> <p>Instrument illumination ..... ⇨ 95</p> <p><b>2</b> Side air vents..... ⇨ 108</p> <p><b>3</b> Turn signals, headlight<br/>flash, low beam and high<br/>beam ..... ⇨ 93</p> <p>Exit lighting ..... ⇨ 96</p> <p>Parking light ..... ⇨ 94</p> <p>Driver Information Center... ⇨ 78</p> <p><b>4</b> Cruise control ..... ⇨ 124</p> <p><b>5</b> Instruments ..... ⇨ 69</p> <p><b>6</b> Horn ..... ⇨ 63</p> <p>Driver's airbag ..... ⇨ 46</p> <p><b>7</b> Driver Information Center... ⇨ 78</p> <p><b>8</b> Remote control for<br/>infotainment system ..... ⇨ 62</p> <p><b>9</b> Windscreen wipers,<br/>windscreen washer<br/>system, headlight washer<br/>system, rear wiper ..... ⇨ 63</p> <p><b>10</b> Centre air vents ..... ⇨ 108</p> <p><b>11</b> Infotainment system ..... ⇨ 98</p> | <p><b>12</b> Info-Display ..... ⇨ 78</p> <p><b>13</b> Anti-theft alarm system<br/>status LED ..... ⇨ 25</p> <p><b>14</b> Central locking system..... ⇨ 21</p> <p>Hazard warning flashers .... ⇨ 93</p> <p>Control indicator for Airbag<br/>deactivation ..... ⇨ 73</p> <p>Control indicator for<br/>passenger seat belt ..... ⇨ 73</p> <p><b>15</b> Sport mode ..... ⇨ 122</p> <p>Tour mode ..... ⇨ 122</p> <p>Traction control system ... ⇨ 121</p> <p>Electronic Stability<br/>Control ..... ⇨ 121</p> <p>Ultrasonic parking<br/>sensors ..... ⇨ 75</p> <p><b>16</b> Front passenger airbag ..... ⇨ 46</p> <p><b>17</b> Glovebox ..... ⇨ 55</p> <p><b>18</b> Climate control system..... ⇨ 101</p> <p><b>19</b> Selector lever, manual<br/>transmission ..... ⇨ 117</p> <p>Automatic transmission ... ⇨ 114</p> <p><b>20</b> Ashtray ..... ⇨ 68</p> <p><b>21</b> Accelerator pedal ..... ⇨ 110</p> <p><b>22</b> Ignition switch with<br/>steering wheel lock ..... ⇨ 111</p> | <p><b>23</b> Brake pedal ..... ⇨ 118</p> <p><b>24</b> Clutch pedal ..... ⇨ 110</p> <p><b>25</b> Steering wheel<br/>adjustment ..... ⇨ 62</p> <p><b>26</b> Storage compartment,<br/>fuse box ..... ⇨ 149</p> <p><b>27</b> Bonnet release lever ..... ⇨ 134</p> |
|--|--|---|



## Exterior lighting



Turn

**Auto** = automatic light system:  
Headlights are switched on  
and off automatically.

**O** = activation or deactivation of  
the automatic light system

↔ = parking lights

≡ = headlights

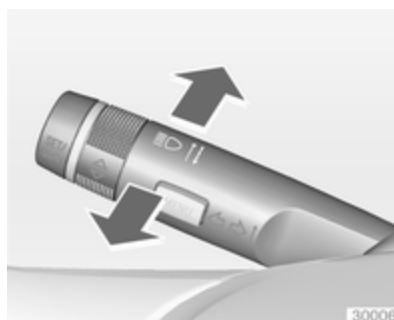
Press

↗ = front fog lights

↘ = rear fog light

Lighting ↗ 89.

## Headlight flash, high beam and low beam



headlight flash = pull lever  
high beam = push lever  
low beam = push or pull lever

High beam ↗ 91, Headlight flash  
↗ 92, Automatic light control  
↗ 89.

## Turn and lane-change signals




right = lever up  
left = lever down

Turn and lane change signals  
↗ 93, Parking lights ↗ 94.

### Hazard warning flashers



Operated with the  button.  
Hazard warning flashers ⇨ 93.

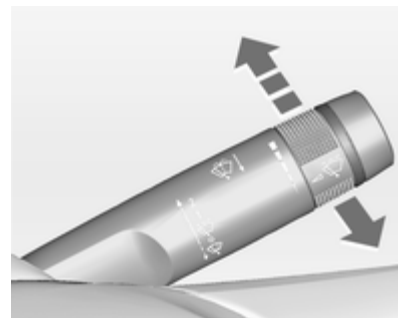
### Horn




Press .

### Washer and wiper systems

#### Windscreen wipers



- 2** = fast
- 1** = slow
-  = adjustable timed interval wipe
- O** = off

For a single swipe when the windscreen wipers are off, press the lever down.

Windscreen wipers ⇨ 63, Wiper replacement ⇨ 138.

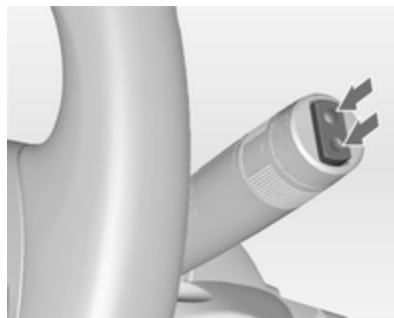
### Windscreen and headlamp washer systems



Pull lever.

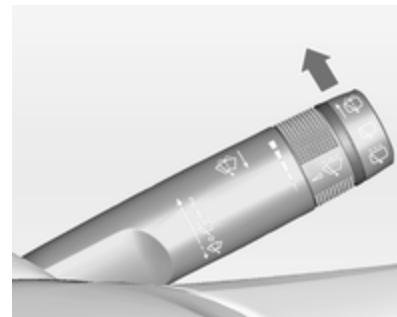
Windscreen and headlamp washer system ⇨ 63, Washer fluid ⇨ 137.

### Rear window wiper and washer system



Push the rocker switch to activate the rear window wiper:

top = continuous operation  
bottom = intermittent operation




Push lever.

Wiper fluid is sprayed on the rear window and the wiper swipes for a few strokes.

## Climate control

### Heated rear window, heated exterior mirrors



Heating is operated by pressing the  button.

Heated rear window ⇨ 32.

## Demisting and defrosting the windows



Press button .

Set temperature control to warmest level.

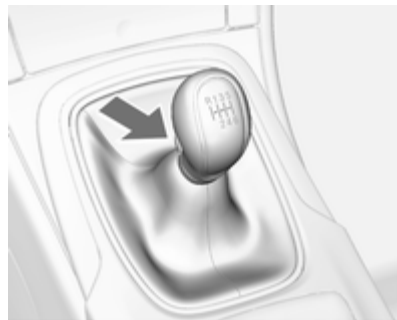
Cooling  on.

Heated rear window  on.

Climate control system ⇨ 101.

## Transmission

### Manual transmission



Reverse: with the vehicle stationary, wait 3 seconds after declutching and then pull up the button on the selector lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 117.



## Automatic transmission



**P** = park  
**R** = reverse  
**N** = neutral  
**D** = drive

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

**+** = higher gear  
**-** = lower gear

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.

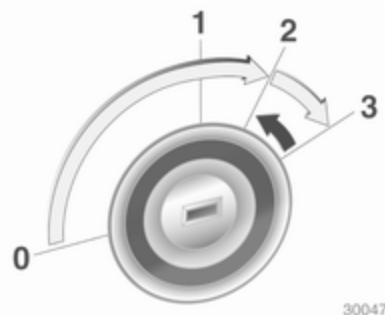
Automatic transmission ⇨ 114.


## Starting off

### Check before starting off

- Tyre pressure and condition  
 ⇨ 152, ⇨ 191.
- Engine oil level and fluid levels  
 ⇨ 135.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and operational.
- Proper position of seats, seat belts and mirrors ⇨ 36, ⇨ 44, ⇨ 27.
- Check brake function at low speed, particularly if the brakes are wet.

## Starting the engine



Turn key to position 1. Move the steering wheel slightly to release the steering wheel lock. Operate clutch and brake, automatic transmission in **P** or **N**, do not accelerate; for diesel engine, turn the key to position 2 for preheating until control indicator  goes out; turn key to 3 and release key.

Starting the engine ⇨ 111.

## Parking

- Always apply parking brake.  
 Manual parking brake without

pressing release button. Apply as firmly as possible on a downhill slope or uphill slope. Operate foot brake at same time to reduce operating force.


For vehicles with electronic parking brake system pull switch (P).


- Switch off the engine and ignition. Turn the ignition key to 0 and remove. Turn the steering wheel until the steering wheel lock is felt to engage.


For vehicles with automatic transmission, the key can only be removed when the selector lever is in the **P** position.



- If the vehicle is on a level surface or uphill slope, engage first gear or 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, engage reverse gear or 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.

Activate the anti-theft alarm system  25.

- Do not park the vehicle on an easy flammable surface. The high temperature of the exhaust system could ignite the surface.
- Close windows and sunroof.
- The engine cooling fans may run after the engine has been switched off  134.
- 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.

Keys, locks  19, Laying the vehicle up for a long period of time  71.

## Keys, doors and windows

Keys, locks .....	19
Doors .....	24
Vehicle security .....	25
Exterior mirrors .....	27
Interior mirrors .....	29
Windows .....	30
Roof .....	32

## Keys, locks

### Keys

#### Replacement keys

The key number is specified in the Car Pass or on a detachable tag.

The key number must be quoted when ordering replacement keys as it is a component of the immobiliser system.

Locks ⇨ 166.

### Key with foldaway key section



Press button to extend. To fold the key, first press the button.

### Car Pass

The Car Pass contains security related vehicle data and should therefore be kept in a safe place.

When the vehicle is taken to a workshop, this vehicle data is needed in order to perform certain operations.

## Radio remote control



Used to operate:

- Central locking system
- Anti-theft locking system
- Anti-theft alarm system
- Luggage compartment
- Power windows
- Sun roof
- Foldable power mirrors

The radio remote control has a range of approx. 5 metres (200 inches). This range can be affected by outside

influences. The hazard warning flashers confirm operation.

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

### Fault

If the central locking system cannot be operated with the radio remote control, it may be due to the following:

- Range exceeded
- Battery voltage too low
- Frequent, repeated operation of the remote control while not in range, which will require re-synchronisation
- Overloading the central locking by operating at frequent intervals, the power supply is interrupted for a short time
- Interference from higher-power radio waves from other sources

Opening the vehicle ⇨ 21.

## Basic settings

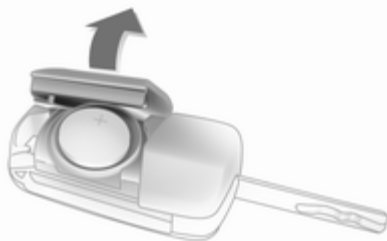
Some settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84.

### Radio remote control battery replacement

Replace the battery as soon as the range reduces.

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

### Key with foldaway key section



Extend the key and open the unit. Replace the battery (battery type CR 20 32), paying attention to the installation position. Close the unit and synchronise.

### Radio remote control synchronisation

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

### Memorised settings

By removing the key out of the ignition lock the settings are automatically saved for the used key:

- Electronic climate control
- Lighting
- Infotainment system
- Power seats
- Power mirrors
- Power door locks

The saved settings are automatically used when the key is inserted into the ignition lock.

Vehicle personalisation ⇨ 84.

### Central locking system

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

A pull on an interior door handle unlocks the entire vehicle and opens the door.



#### Note

In the event of an accident of a certain severity, the vehicle unlocks automatically.

### Unlocking



Press button .

It is configurable to unlock only the driver's door by pressing button  once and to unlock all doors, load compartment and fuel filler flap by pressing button  twice.


Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84.

The settings can be stored by the key being used, memorised settings ⇨ 21.

### Locking

Close doors, load compartment and fuel filler flap.




Press button .

If the driver's door is not closed properly, the central locking system will not work. Activation or deactivation of this function in the menu **Settings** in the Info-Display. Vehicle personalisation ➔ 84.

### Unlocking the tailgate



Press button  when the ignition is off. The tailgate will unlock and open, whilst all other doors remain locked.

### Central locking buttons

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



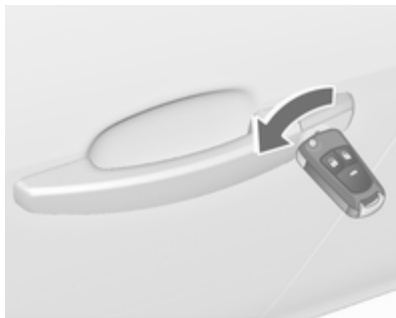
Press the  button to lock.


Press the  button to unlock.

When the key is in the ignition lock, locking is only possible if all doors are closed.

## Fault in radio remote control system

### Unlocking




Manually unlock the driver's door by turning the key in the lock. Switch on the ignition and press the central locking button  to open all doors, load compartment and fuel filler flap. To deactivate the anti-theft locking system, switch on the ignition.

### Locking

Manually lock the driver's door by turning the key in the lock.

## Fault in central locking system

### Unlocking

Manually unlock the driver's door by turning the key in the lock. The other doors can be opened by using the interior handle twice. The load compartment and fuel filler flap can't be opened. To deactivate the anti-theft locking system, switch on the ignition .


### 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 key. The fuel filler flap and tailgate cannot be locked.

## Automatic locking

### Automatic locking after driving off


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.


Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation  84.

The settings can be stored by the key being used .

### 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.

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

The settings can be stored by the key being used .

## Child locks



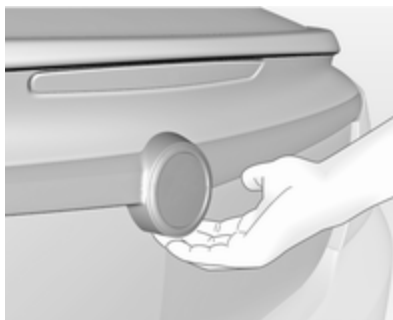
### Warning


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

Using a key or suitable screwdriver, turn the child lock in the rear door into horizontal position. Door cannot be opened from inside. For deactivation turn the child lock into vertical position.

## Doors

### Load compartment Opening



Push the button or press button  on the remote control.

### Warning

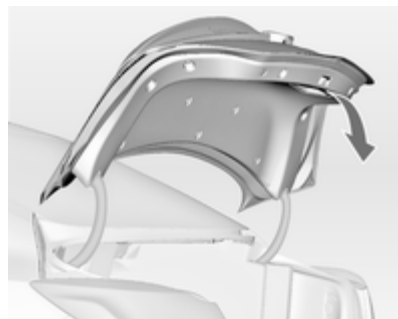
Do not drive with the tailgate open or ajar, e.g. when transporting bulky objects, since toxic exhaust gas could enter the vehicle.

### Note

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

Central locking system  21.

### Closing



Use the interior handle.

Do not pull the button under the moulding while closing as this will unlock tailgate again.



## Vehicle security

### Anti-theft locking system

#### Warning

Do not use the system if there are people in the vehicle! The doors cannot be unlocked from the inside.


The system deadlocks all the doors. All doors must be closed or the system cannot be activated.

If the ignition was on, the driver's door must be opened and closed once so that the vehicle can be secured.

Unlocking the vehicle disables the mechanical anti-theft locking system. This is not possible with the central locking button.

### Activating



Press  on the radio remote control twice within 15 seconds.


### Anti-theft alarm system

The anti-theft alarm system is combined with the anti-theft locking system.

It monitors:

- Doors, tailgate, bonnet
- Passenger compartment including associated load compartment
- Vehicle inclination, e.g. if it is raised
- Ignition

### Activation

- Self-activated 30 seconds after locking the vehicle (initialisation of the system)
- Directly by pressing  on the radio remote control once more after locking
- 30 seconds after locking if the function "automatic locking when leaving the vehicle" is activated

### 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.

### Activation without monitoring of passenger compartment and vehicle inclination



Switch off the monitoring of passenger compartment and vehicle inclination, when people or animals are being left in the vehicle, because of movement and high volume ultrasonic signals, and when the vehicle is on a ferry or train.

1. Close tailgate, bonnet, windows and sun roof.
2. Press button . The LED in the button illuminates for maximum 10 minutes.

3. Close doors.
4. Activate the anti-theft alarm system.

Status message is displayed in the Driver Information Center.

### 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 = test, arming delay.  
 illuminates  
 LED flashes = doors, tailgate or bonnet not quickly

completely closed, or system fault.

Status after system is armed:

LED flashes = system is armed.

slowly

LED flashes = system is disarmed.

quickly

3 times after

unlocking

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


### Deactivation

Unlocking the vehicle deactivates anti-theft alarm system.

### Alarm

When triggered, alarm sounds by a separate battery-backed power sounder, simultaneously hazard warning lights flash. The number and duration of alarm release are stipulated by legislation.


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

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

## Immobiliser



The system is integrated into the ignition switch and checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the vehicle can be started.

The electronic immobiliser activates itself automatically after the key has been removed from the ignition switch.

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 spare key 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,  25.

Control indicator   27.

## 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). In position 0 no mirror is selected. Then swivel the control to adjust the mirror.

## 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 retracted mirror is manually extended, pressing down the adjuster will only electrically extend the other mirror.

## Folding mirrors from outside



Press  short to fold in mirrors.

Press  short to fold out mirrors.

If the mirrors were folded in by the control in the driver's door, they are not folded out by pressing .

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ➔ 84.

The settings can be stored by the key being used ➔ 21.

## Heated



Operated by pressing the  button.

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

## Parking assist

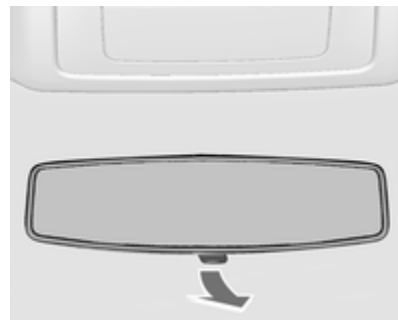
Both exterior mirrors are automatically aimed at the rear tyres as a parking aid when reverse gear is selected, except operation with trailer attached.

Activation or deactivation of this function can be changed in the menu

**Settings** in the Info-Display. Vehicle personalisation ➔ 84.

## Interior mirrors

### Manual anti-dazzle



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

## Automatic anti-dazzle



Dazzle from following vehicles at night is automatically reduced.

## Windows

### Manual windows

The door windows can be opened or closed with the window winders.

### Power windows

#### Warning

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

If there are children on the rear seat, 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.

Power windows can be operated

- with ignition on,
- within 10 minutes after switching ignition off,
- within 5 minutes after opening a door.

After switching off the ignition, window operation is disabled when the driver's door is opened, then closed and locked.



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

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

Pushing or pulling stronger to the second detent and then releasing: window moves up or down automatically with safety function. To

stop movement, operate the switch once more in the same direction.

### Safety function



If the window glass encounters resistance above the middle of the window 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 pulled. The window moves up without safety function. To stop movement, release and operate the switch once more in the same direction.

### Child safety system for rear windows





Press switch  to deactivate rear door power windows, the LED lights up. To activate press  again.

### Operating windows from outside

Depending on the equipment level, the windows can be operated remotely from outside the vehicle.



Press  or  longer until all windows start to move. Release the button to stop the windows.

### 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 or a warning code is displayed in the Driver Information Center.

Vehicle messages ⇨ 80.

Activate the window electronics as follows:

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

Depending on the engine type, the heated rear window comes on automatically when the diesel particle filter is being cleaned.

## 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 the length.

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

## Roller blinds

To reduce sunlight at the rear seats, pull the blind upwards using the grip and engage it at the top of the door frame.

## Roof

### Sunroof

#### Warning

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

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

Sun roof can be operated

- with ignition on,
- within 10 minutes after switching ignition off,
- within 5 minutes after opening a door.



After switching off the ignition, sun roof operation is disabled when driver's door is once opened and closed and then locked.









Operate the switches as follows:


### Open or close

Press  or  lightly to the first detent: sun roof is opened or closed with safety function as long as the switch is operated.

Press  or  stronger to the second detent and then release: the sun roof is opened or closed automatically with safety function. To stop movement, operate the switch once more.

### Raise or close


Press  or : sun roof is raised or closed automatically with safety function.

If the sun roof is raised, it can be opened in one step by pushing .

### Safety function

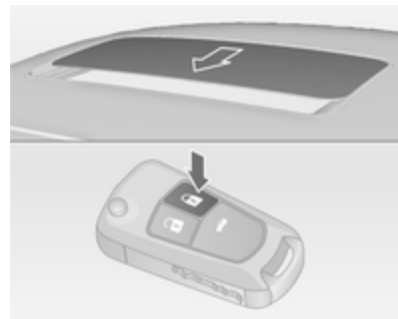
If the sun roof encounters resistance during automatic closing, it is immediately stopped and opened again.


### Override safety function

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

### Closing sun roof from outside

The sun roof can be closed remotely from outside the vehicle.



Press  longer until sun roof starts to close. Release the button to stop the closing.

### Sunblind



The sunblind is manual operated.

Close or open the sunblind by sliding. When the sun roof is open, the sunblind is always open.

### Initialising the sun roof

If the sun roof cannot be closed (e.g. after disconnecting the vehicle

battery), activate the sunroof electronics as follows:

- If sun roof is closed, keep the switch  pushed for 10 seconds.
- If sun roof is open, keep the switch  pushed until sun roof is fully closed.

## Seats, restraints

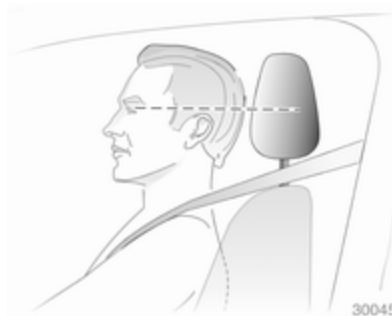
Head restraints .....	35
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### Head restraints

#### Position

#### ⚠ Warning

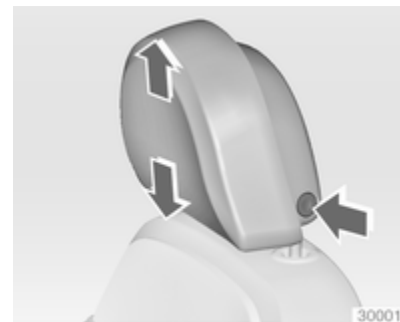
Only drive with the head restraint set to the proper position.



The middle of the head restraint should be at eye level. If this is not possible for extremely tall persons, set to highest position, and set to lowest position for small persons.

### Adjustment

#### Head restraints on front seats



#### Height adjustment

Press the button, adjust height and engage.



### Inclination adjustment

Swivel the bottom edge of the head restraint forward or rearward.

### Head restraints on rear seats



### Height adjustment

Pull the head restraint upward or press the catch to release and push the head restraint down.

### Active head restraints on front seats

In the event of a rear-end impact, the active head restraints are moved forwards slightly. The head is more effectively supported so the risk of whiplash injury is reduced.

#### Note

Approved accessories may only be attached to the front passenger head restraint if the seat is not in use.

## Front seats

### Seat position

#### ⚠ Warning

Only drive with the seat correctly adjusted.



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

passenger seat as far back as possible.

- Sit with your shoulders as far back against the backrest as possible. Set the backrest rake so that you can easily reach the steering wheel with your arms slightly bent. Maintain contact between your shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25 °.
- Adjust the steering wheel ⇄ 62.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between your head and the headlining. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇄ 35.
- Adjust the height of the seat belt ⇄ 44.
- Adjust the thigh support so that there is a space about 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.

### Seat adjustment

#### Danger

Do not sit nearer than 25 cm (10 inches) from the steering wheel, to permit safe airbag deployment.

#### Warning

Never adjust seats while driving as they could move uncontrollably.

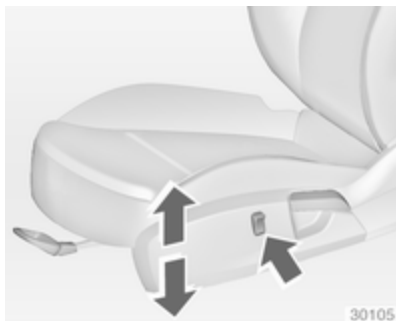
### Seat positioning



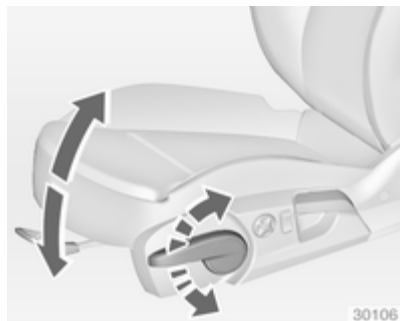
Pull handle, slide seat, release handle.

**Seat backrests**

Pull lever, adjust inclination and release lever. Allow the seat to engage audibly.  
Do not lean on seat when adjusting.

**Seat height**

Press switch  
top = seat higher  
bottom = seat lower

**Seat inclination**

Lever pumping motion  
up = front end higher  
down = front end lower

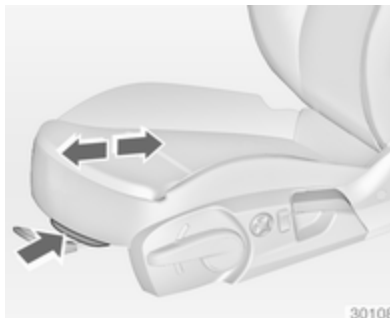
### Lumbar support



Adjust lumbar support using four-way switch on outboard side of driver's seat to suit personal requirements.

Moving support up and down: push button up or down. Increasing and decreasing support: push button forward or backward.

### Adjustable thigh support



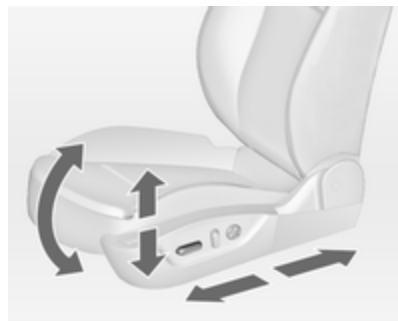
Pull the lever and slide the thigh support.

### Power seat adjustment

#### **⚠ Warning**

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

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

**Seat positioning**

Move switch forwards/backwards.

**Seat height**

Move switch upwards/downwards.

**Seat inclination**

Move switch upwards/downwards at front.

**Seat backrests**

Turn switch forwards/backwards.

**Memory function for power seat adjustment and exterior mirrors**

Two different seat and mirror settings can be stored.

**Function standby**

Operation in each mode, even when ignition is switched off and the doors are locked.

**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 key **1** or **2** pressed until the stored seat and mirror positions have been reached.



### Functions of adjustment using radio remote control

By removing the key out of the ignition lock the settings for power seat and exterior mirrors are automatically saved for the used key:

The saved settings are automatically used as long as the key is inserted into the ignition lock.

Vehicle personalisation ⇨ 84.

### Easy exit function

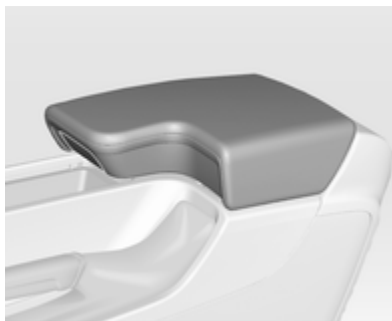
For easy exit from the vehicle, the power driver seat moves rearwards when vehicle is stationary, the key is out of ignition lock and the driver's door is opened.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84.

### Overload

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

### Armrest




Push button and fold armrest upwards. Under the armrest there is a storage compartment.

Auxiliary devices ⇨ 99.

### Heating




Adjust heating to the desired setting by pressing the  button for the respective seat one or more times with the ignition on. The control indicator in the button indicates the setting.

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

Seat heating is operational when engine is running.

## Ventilating



Adjust ventilation to the desired setting by pressing the  button for the driver seat one or more times with the ignition on.

The control indicator in the display indicates the setting.

Ventilated driver seat is operational when engine is running.

## Rear seats

### Armrest



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

## Seat belts



The belts are locked during heavy acceleration or deceleration of the vehicle for the safety of the occupants.

### Warning

Fasten seat belt before each trip.

In the event of an accident, persons not wearing seat belts endanger their fellow occupants and themselves.

Seat belt reminder  73.

Seat belts are only designed for use by one person at a time. They are not suitable for persons younger than 12 years of age or smaller than 150 cm (59 inches).

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

Have damaged components replaced. After an accident, have the belts and triggered belt tensioners replaced by a workshop.

#### **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.

#### **Belt force limiters**

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


#### **Belt tensioners**



In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

#### **⚠ Warning**

Incorrect handling (e.g. removal or fitting of belts) can trigger the belt tensioners with risk of injury.

Deployment of the belt tensioners is indicated by illumination of control indicator  73.

Triggered belt tensioners must be replaced by a workshop. Belt

tensioners can only be triggered once.

#### **Note**

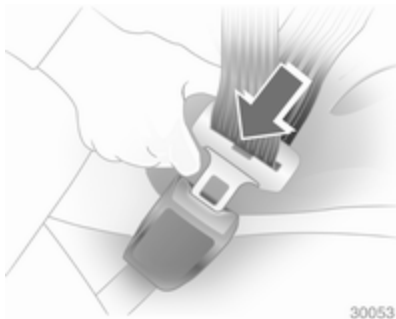
Do not affix or install accessories or other objects that may interfere with the operation of the belt tensioners. Do not make any modifications to belt tensioner components as this will invalidate the vehicle type approval.

## Three-point seat belt

### Fitting



Withdraw belt from reel, guide it untwisted across the body and engage the latch plate in the buckle. Tension the lap belt regularly whilst driving by tugging the shoulder belt.



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.

### Height adjustment



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

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

## Removing



30054

To release belt, press red button on belt buckle.

## Seat belts on the rear seats

The seat belt for the middle seat can only be withdrawn from the reel if the backrest is in the rear position.

## Using the seat belt while pregnant

### ⚠ Warning

The lap belt must be positioned as low as possible across the pelvis to prevent pressure on the abdomen.

## Airbag system

The airbag system consists of a number of individual systems.

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 airbag systems can be triggered in an explosive manner.

### Note

The airbag systems and belt tensioner control electronics are located in the centre console area. Do not put any magnetic objects in this area.

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

Each airbag is triggered only once. Have deployed airbags replaced by a workshop.

Do not make any modifications to the airbag system as this will invalidate the vehicle type approval.

Having the steering wheel, the instrument panel, all panelling parts, the door seals, the handles and the seats removed by a workshop.

Control indicator  for airbag systems  
➔ 73.

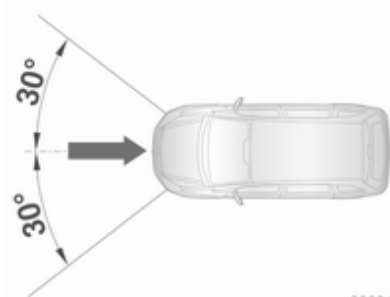
## Front airbag system

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



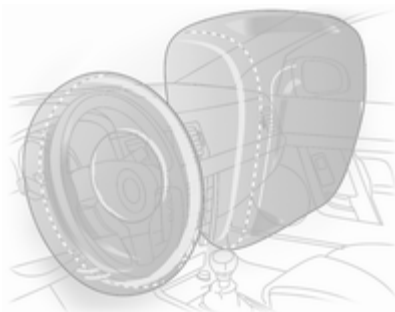
30036

There is also a warning label on the side of the instrument panel, visible when the passenger door is open.



30034

The front airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The forward movement of the front seat occupants is retarded, thereby considerably reducing the risk of injury to the upper body and head.

### **⚠ Warning**

Optimum protection is only provided when the seat is in the proper position ↗ 36.

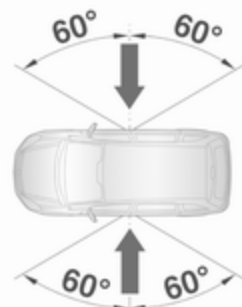
Keep the area in which the airbag inflates clear of obstructions.

Wear the seat belt properly fastened. Only then the airbag is able to protect.

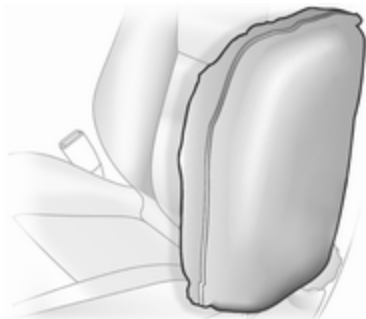
### **Side airbag system**



The side airbag system consists of an airbag in each front seat backrest and in the rear outer seat backrests. This can be identified by the word **AIRBAG**.



The side airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the upper body and pelvis in the event of a side-on collision is considerably reduced.

#### Warning

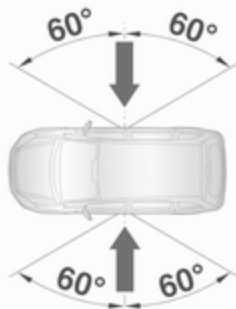
Keep the area in which the airbag inflates clear of obstructions.

#### Note

Only use protective seat covers that have been approved for your vehicle. Be careful not to cover the airbags.

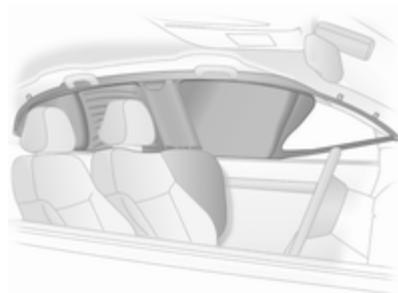
### Curtain airbag system

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



30035

The curtain airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the head in the event of a side impact is considerably reduced.

#### Warning

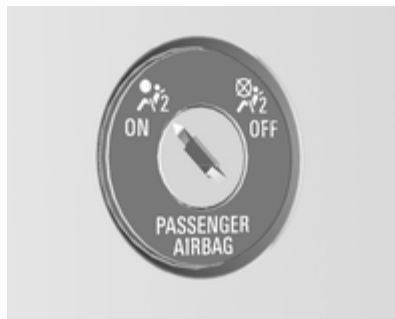
Keep the area in which the airbag inflates clear of obstructions.

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.






## Airbag deactivation

Front airbag and side airbag systems for passenger seat have to be deactivated, if a child restraint system is to be fitted on this seat. The curtain airbag system, the belt tensioners and all driver airbag systems will remain active.




Front passenger airbag system can be deactivated by a lock on the side of the instrument panel, visible when the passenger door is open.

Use the ignition key to choose the position:

-  = front passenger airbags are deactivated and will not inflate in case of a collision. Control indicator  lights up permanently in this case. A child seat according to the chart **Child restraint installation locations** can be installed ⇨ 51.
-  = front passenger airbags are activated. No child restraint systems can be installed.



Only if control indicator  doesn't light up, the airbag systems for front passenger seat will inflate in case of a collision.

Change status only when the vehicle is stopped with the ignition off.

Status remains up to the next change.

Control indicator Airbag deactivation ⇨ 73.

## Child restraints

### Child restraint systems

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.

Always comply with local or national regulations. In some countries, the use of child restraint systems is forbidden on certain seats.

#### Warning

When using a child restraint system on the front passenger's seat, the airbag systems for the front passenger's seat must be deactivated; if not, the triggering of the airbags 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's seat.

### Selecting the right system

Your child should travel facing backwards in the vehicle, until as old as possible. It is appropriate to change the system when the child's head can no longer be properly supported at eye height. The child's cervical vertebrae are still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Children under 12 years or under 150 cm (59 inches) tall should only travel in an appropriate child safety seat.

Never carry a child whilst travelling in the vehicle. The child will become too heavy to hold in the event of a collision.

When transporting children, use the child restraint systems suitable for the child's weight.

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.

Only allow children to enter and exit the vehicle at 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

### Permissible options for fitting a child safety seat

Weight and age class	On front passenger seat		On rear outboard seats	On rear centre seat
	activated airbag	deactivated airbag		
<b>Group 0: up to 10 kg</b> or approx. 10 months	X	U <sup>1</sup> , U <sup>2</sup>	U <sup>2</sup>	U <sup>2</sup>
<b>Group 0+: up to 13 kg</b> or approx. 2 years	X	U <sup>1</sup> , U <sup>2</sup>	U <sup>2</sup>	U <sup>2</sup>
<b>Group I: 9 to 18 kg</b> or approx. 8 months to 4 years	X	U <sup>1</sup> , U <sup>2</sup>	U <sup>2</sup>	U <sup>2</sup>
<b>Group II: 15 to 25 kg</b> or approx. 3 to 7 years	X	X	U	U
<b>Group III: 22 to 36 kg</b> or approx. 6 to 12 years	X	X	U	U

- <sup>1</sup> = Only if front passenger's seat airbag systems are deactivated. If the child restraint system is being secured using a three-point seat belt, move seat height adjustment to uppermost position and ensure that vehicle safety belt runs forwards from the upper anchorage point.
- <sup>2</sup> = Seat available with ISOFIX and Top-Tether mounting brackets.
- U = Universal suitability in conjunction with three-point seat belt.
- X = No child restraint system permitted in this weight class.

### Permissible options for fitting an ISOFIX child safety seat

Weight class	Size class	Fixture	On front passenger seat <sup>1)</sup>	On rear outboard seats	On rear centre seat
Group 0: up to 10 kg	E	ISO/R1	IL	IL	IL
Group 0+: up to 13 kg	E	ISO/R1	IL	IL	IL
	D	ISO/R2	X	IL	IL
	C	ISO/R3	X	IL	IL
Group I: 9 to 18 kg	D	ISO/R2	X	IL	IL
	C	ISO/R3	X	IL	IL
	B	ISO/F2	IL	IL, IUF	IL, IUF
	B1	ISO/F2X	IL	IL, IUF	IL, IUF
	A	ISO/F3	IL	IL, IUF	IL, IUF

IL = Suitable for particular ISOFIX restraint systems of the 'specific-vehicle', 'restricted' or 'semi-universal' categories.  
The ISOFIX restraint system must be approved for the specific vehicle type.

IUF = Suitable for ISOFIX forward facing child restraint systems of universal category approved for use in this mass group.

X = No ISOFIX child restraint system approved in this weight class.

### ISOFIX size class and seat device

A – ISO/F3 = Forward-facing child restraint system for children of maximum size in the weight class 9 to 18 kg.

B – ISO/F2 = Forward-facing child restraint system for smaller children in the weight class 9 to 18 kg.

B1 – ISO/F2X = Forward-facing child restraint system for smaller children in the weight class 9 to 18 kg.

C – ISO/R3 = Rear-facing child restraint system for children of maximum size in the weight class up to 13 kg.

<sup>1)</sup> The ISOFIX anchorages, except for sport seats, can be retrofitted by a workshop

- 
- D – ISO/R2      = Rear-facing child restraint system for smaller children in the weight class up to 13 kg.  
E – ISO/R1      = Rear-facing child restraint system for young children in the weight class up to 13 kg.

### Isfix child restraint systems



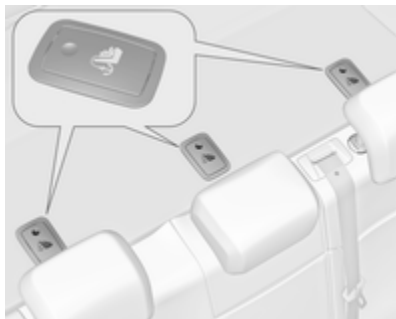
Fasten vehicle approved ISOFIX child restraint systems to the mounting brackets.

It is not possible to install 3 ISOFIX child seats in the rear seat row. Only 2 child seats on the outer seats or 1 on the centre seat may be installed at any one time.

When using ISOFIX for seat mounting, universally approved child restraint systems for ISOFIX may be used.

ISOFIX mounting brackets are indicated by a label on the backrest.

### Top-tether child restraint systems



Fasten Top-Tether child restraint systems to the fastening eyes behind the rear head restraints or at the backside of the front backrest. The strap must run between the two guide rods of the head restraint.



When using Top-Tether for seat mounting, universally approved child restraint systems for Top-Tether may be used.

Top-Tether mounting loops are indicated by labels on the back shelf or on the rear side of the backrests.

## Storage

Storage compartments .....	55
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### Storage compartments

#### Glovebox



The glovebox features a pen holder.  
The glovebox should be closed whilst driving.

### Cupholders

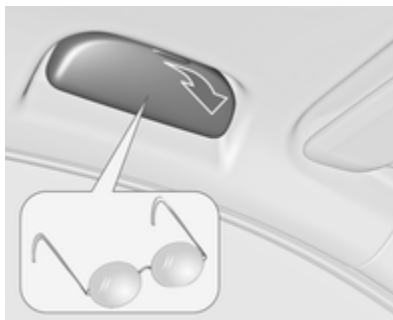


Cupholders are located in the centre console.



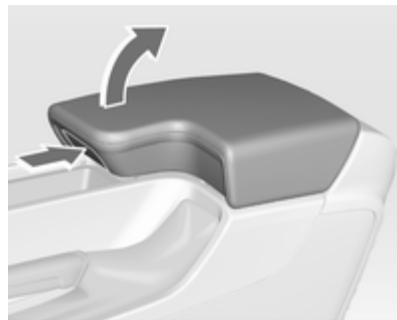
Additional cupholders are located in the rear armrest, when it is folded down.

### Sunglasses storage



Fold down to open.  
Do not use for storing heavy objects.

### Armrest storage Storage in the front armrest



Push button to fold up the armrest.



## Storage in the rear armrest



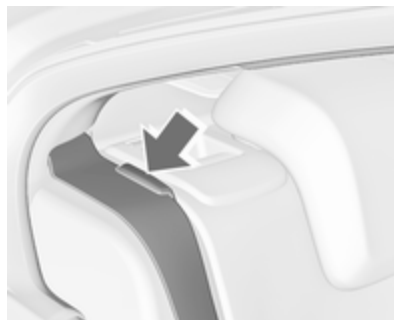
Fold down armrest and open cover.  
Close cover before folding the  
armrest up.

## Load compartment

### Folding down rear backrests

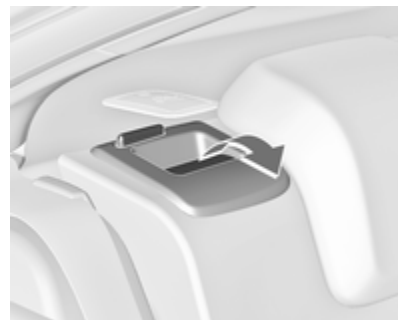
The rear backrest is divided into two parts. Both parts can be folded down. Remove load compartment cover as necessary.

Push head restraints down by pressing the catch.  
Fold up rear armrest.



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

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



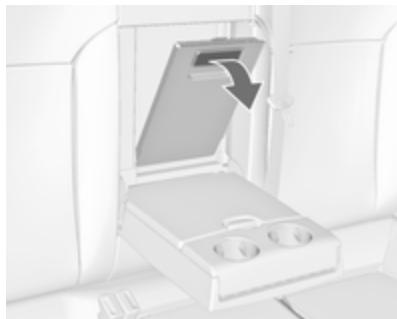
To fold up, raise backrests and guide them into upright position until they engage audibly.

Be sure to have the seat belts of the outer seats into the belt guides.

The backrests are only engaged when the red marks on both sides near the release lever are not visible.

### Folding down cover in the rear middle backrest

Fold down rear armrest.



Pull grip and open the cover.

Suitable for loading long, narrow objects.

Let the cover engage after folding up.



The closed cover can be protected from the load compartment. Turn knob through 90 °:

knob	=	cover protected from
horizontal		the passenger room
knob	=	cover not protected
vertical		

### Storage in the load compartment

Depending of the version, storage boxes are available under the load compartment cover.

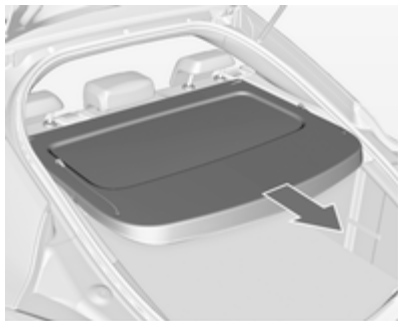
### Load compartment cover

Do not place any objects on the cover.

### Removing



Unhook retaining straps from tailgate.

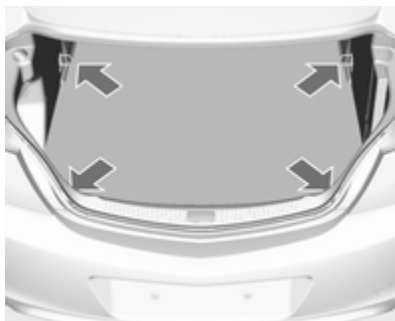


Pull cover from the side guides.

### **Fitting**

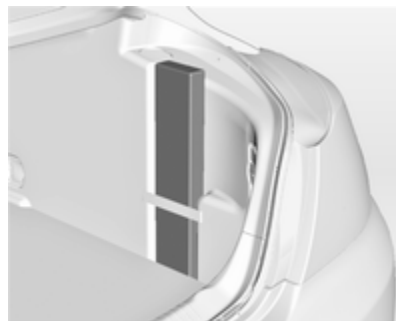
Engage cover in side guides and fold downwards. Attach retaining straps to tailgate.

### **Lashing eyes**



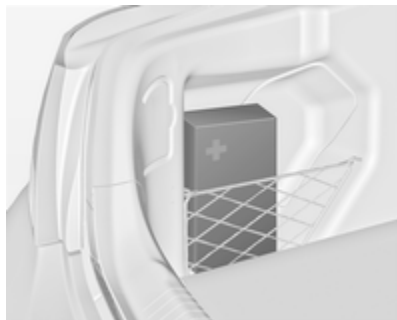
The lashing eyes are designed to secure items against slippage, e.g. using lashing straps or luggage net.

### **Warning triangle**



Stow the warning triangle in the space behind a strap on the right side of the load compartment.

## First aid kit



Stow the first aid kit in the space behind the mesh on the left side of the load compartment.

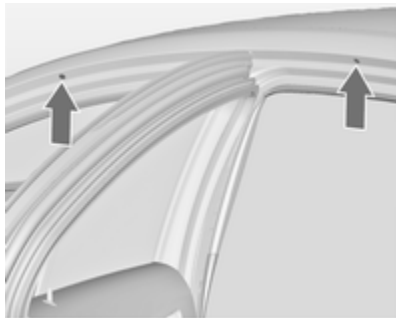
## Roof rack system

### 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.

Detach the cover from each mounting point and fasten the roof rack with the attached screws.

## Loading information



- Heavy objects in the load compartment should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects with lashing straps attached to lashing eyes ↗ 59.
- Secure loose objects in load compartment to prevent sliding.
- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the load compartment cover or the instrument panel, do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake 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.
- The payload is the difference between the permitted gross vehicle weight (see identification plate ↗ 181) and the EC kerb weight.

To calculate the EC kerb weight, enter the data for your vehicle on page ↗ 3.

The EC kerb weight includes weights for the driver (68 kg), luggage (7 kg) 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.

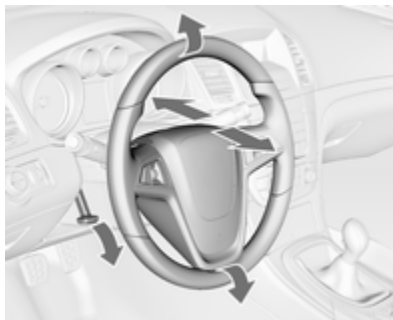
The permissible roof load is 100 kg. The roof load is the combined weight of the roof rack and the load.

## Instruments and controls

Controls.....	62
Warning lights, gauges and indicators.....	69
Information displays.....	78
Vehicle messages.....	80
Trip computer .....	83
Vehicle personalisation .....	84

### 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 infotainment system and the cruise control can be operated by the controls on the steering wheel.

Further information in the infotainment system manual.

Cruise control ↗ 124.

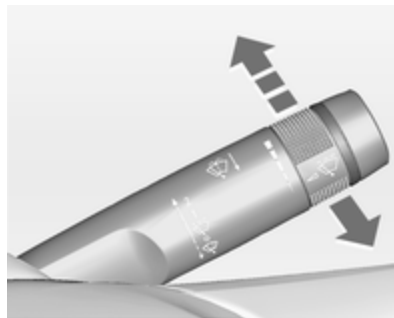
## Horn




Press .

## Windscreen wiper/washer

### Windscreen wiper



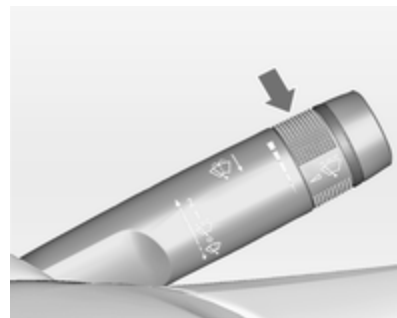
- 2** = fast
- 1** = slow
-  = adjustable timed interval wipe
- O** = off

For a single swipe when the windscreen wipers are off, press the lever down.

Do not use if the windscreen is frozen.

Switch off in car washes.

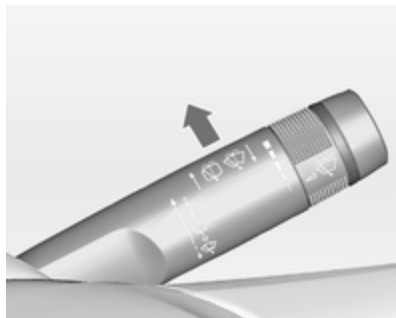
### Adjustable wiper interval




Turn the adjuster wheel to adjust the wiping interval:

- |                |                            |
|----------------|----------------------------|
| short interval | = adjuster wheel upwards   |
| long interval  | = adjuster wheel downwards |

### Automatic wiping with rain sensor

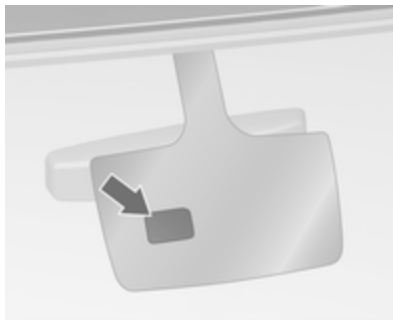


 = automatic wiping with rain sensor

The rain sensor detects the amount of water on the windscreen and automatically regulates the frequency of the windscreen wipers.

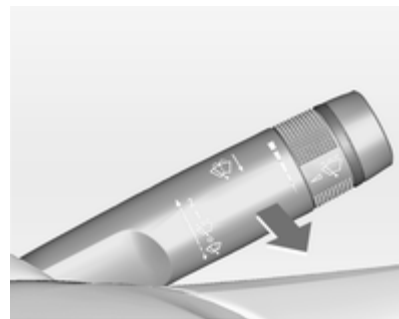
Turn the adjuster wheel to adjust the sensitivity:

low sensitivity	= adjuster wheel downwards
high sensitivity	= adjuster wheel upwards



Keep the sensor free from dust, dirt and ice.

### Windscreen washer

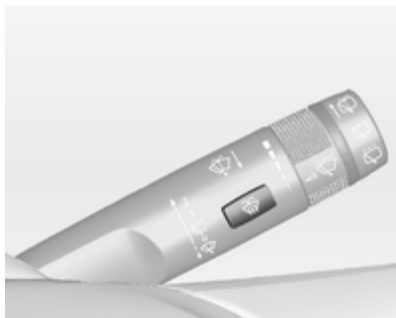


Pull lever. Wiper fluid is sprayed on the windscreen and the wipers wipe for a few strokes.

If the lights are on, washer fluid is also sprayed on the headlights. The headlight washer system is then inoperable for 2 minutes.



### Washer fluid heating



Press button  to activate.

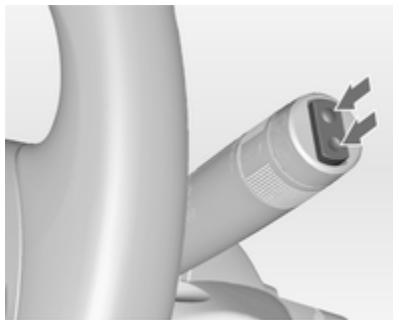
#### **Warning**

Water is heated up to a temperature of 80 °C.

Washer fluid is sprayed onto the windscreen after a delay of approx. 15 to 30 seconds. Simultaneously the wipers wipe for a few strokes. Three more subsequent sprays occur at 10 to 30 second intervals.

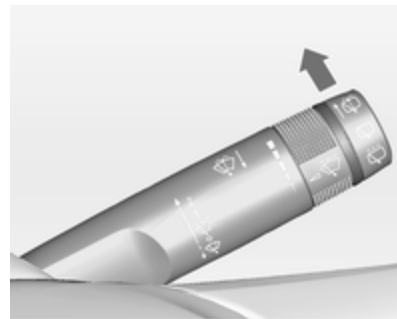
The system can be deactivated by pressing the button again.

### Rear window wiper/washer




Push the rocker switch to activate the rear window wiper:

upper position	= continuous operation
lower position	= intermittent operation
middle position	= off



Push lever. Wiper fluid is sprayed on the rear window and the wipers wipe for a few strokes.

The rear window wiper comes on automatically when the windscreen wiper is switched on and reverse gear is engaged.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation  84.



The rear window washer system is deactivated when the fluid level is low.

## Outside temperature



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

If outside temperature drops to 3 °C, the symbol  illuminates in the Driver Information Center with Uplevel-Display or in the Info-Display as a warning for icy road conditions.  remains illuminated until temperatures reach at least 5 °C.



Additionally a warning message is displayed in the Driver Information Center with Uplevel-Display.

### Warning

The road surface may already be icy even though the display indicates a few degrees above 0 °C.

## Clock

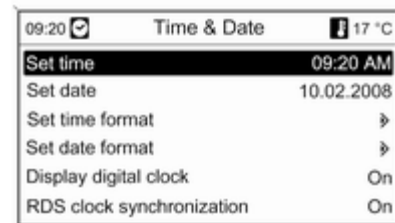
Date and time are shown in the Info-Display.

## Set date and time

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

Select **Time & Date**.

Vehicle personalisation ⇨ 84.



Settings for time and date can be adjusted.

See infotainment manual for further information.

## RDS clock synchronization

The RDS signal of most VHF transmitters automatically sets the time.

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

## Power outlets



12V power outlets are located in the centre console and in the front and rear floor console.



Do not exceed the maximum power consumption of 120 watts.



A 230V power outlet is located in the rear floor console. If ignition is on and a device is plugged in, a LED in the outlet illuminates green.

Do not exceed the maximum power consumption of 150 watts.

### Danger

Power outlet works under high electrical voltage!

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

Electrical accessories that are connected must comply with the electromagnetic compatibility requirements laid down in DIN VDE 40 839.

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

Do not damage the sockets by using unsuitable plugs.

### Cigarette lighter



The cigarette lighter is located behind the ashtray cover.

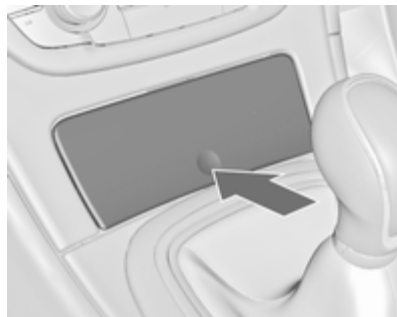
Press ashtray cover to open.



Press in cigarette lighter. Switches off automatically once the element is glowing. Pull out lighter.

### Ashtrays

Caution
To be used only for ash and not for combustible rubbish.



Press ashtray cover to open.



To empty, grip both sides of the ashtray insert and remove.

## Warning lights, gauges and indicators

### Speedometer



Indicates vehicle speed.

### Odometer



The bottom line displays the recorded distance.

### Trip odometer

The top line displays the recorded distance since the last reset.

To reset, hold the reset knob depressed for a few seconds with the ignition on.

### Tachometer



Displays the engine revolutions per minute.

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


#### Caution

If the needle is in the 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.

### Engine coolant temperature gauge



Displays the coolant temperature.

left area = engine operating temperature not yet reached

central area = normal operating temperature

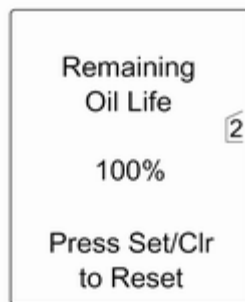
right area = temperature too high

### 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 to change the engine oil. Based on driving conditions, the interval at which an engine oil change will be indicated can vary considerably.

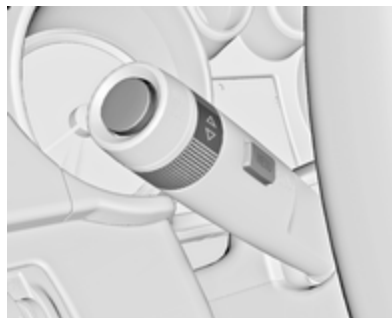


In the Uplevel-Display the remaining oil life duration is displayed in the **Vehicle Information Menu**.

In the Midlevel-Display the remaining engine oil duration is displayed by the control indicator .

The menu and function can be selected by 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 the oil life system.

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.

When the system has calculated that engine oil life has been diminished, **Change Engine Oil Soon** or a warning code appears in the Driver Information Center. Have engine oil changed by a workshop within one

week or 500 km (300 miles) (whichever occurs first).

Driver Information Center  78.

Service Information  169.

## Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. When the ignition is switched on, 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





## Control indicators in the centre stack



### Turn signal

↔ illuminates or flashes green.

### Illuminated

The control indicator illuminates briefly when the parking lights are switched on.

### Flashes

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

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

Bulb replacement ↗ 139. Fuses ↗ 145.

Turn signals ↗ 93.

## Seat belt reminder

🚗 for driver's seat illuminates or flashes red.

🚗 for passenger's seat illuminates or flashes red, when seat is occupied.

🚗 for rear seats flashes or illuminates.

### Illuminated

After the ignition is switched on until the seat belt is fastened.

### Flashes

After starting off until the seat belt is fastened.

Fastening the seat belt ↗ 44.

## Airbag and belt tensioners

🚗 illuminates red.

When the ignition is switched on, the control indicator illuminates for about 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner, the airbags or the seat occupancy recognition system. The systems may fail to trigger in the event of an accident.

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

### ⚠ Warning


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

Airbag system, belt tensioners ↗ 45, ↗ 42.

## Airbag deactivation

🚗 for passenger airbag illuminates yellow.

When the control indicator illuminates the passenger airbag is activated.

 for passenger airbag illuminates yellow.

When the control indicator illuminates the passenger airbag is deactivated.

## Charging system


 illuminates red.

It 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. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of a workshop.

## Malfunction indicator light

 illuminates or flashes yellow.

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


## Illuminates when the engine is running

Fault in the 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 throttle until the flashing stops. Seek the immediate assistance of a workshop.

## Service vehicle soon

 illuminates yellow when the vehicle needs a service.

It illuminates in combination with a warning message or a warning code.

Vehicle messages ⇨ 80.

## Brake and clutch system

 illuminates red.

Illuminates when the manual parking brake is released if the brake/clutch fluid level is too low ⇨ 137.

## ⚠ Warning

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

Illuminates after the ignition is switched on if the manual parking brake is applied ⇨ 119.

## Electrical parking brake

 illuminates or flashes red.

## Illuminated

Electrical parking brake is applied ⇨ 137.

## Flashes

Electrical parking brake is not fully applied or released.

## Electrical parking brake fault

 illuminates yellow.

Electrical parking brake system ⇨ 137.

### **Warning**

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

## **Antilock brake system (ABS)**

 illuminates red.

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 ⇨ 118.

## **Variable effort steering**

 illuminates yellow.

Fault in variable effort steering system. This may lead to a higher or

lower steering effort. Contact a workshop.

## **Ultrasonic parking assist**

  illuminates yellow.

Fault in system

or

Fault due to sensors that are dirty or covered by ice or snow

or

Interference due to external sources of ultra sound. Once the source of interference is removed, the system will operate normally.

Have the cause of the fault in the system remedied by a workshop.

Ultrasonic parking sensors ⇨ 125.

## **Electronic Stability Control**

 illuminates or flashes yellow.

### **Illuminated**

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 has kicked in. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

## **Electronic Stability Control off**

 flashes yellow.


Flashes when the system is deactivated.

## **Traction Control system off**

 flashes yellow.

Flashes when the system is deactivated.

## **Preheating and diesel particle filter**


 illuminates or flashes yellow.

**Illuminated**

Preheating activated. Only activates when outside temperature is low.

**Flashes**

If the diesel particle filter requires cleaning and previous driving conditions did not permit automatic cleaning. Continue driving and if possible do not allow engine speed to drop below 2000 rpm.

 goes off as soon as the self-cleaning operation is complete.

Diesel particle filter ⇨ 112.

**Tyre pressure monitoring system**

 illuminates or flashes yellow.

**Illuminated**

Tyre pressure loss. Stop immediately and check tyre pressure.

**Flashes**

Fault in system or tyre 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.

It 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. Depress clutch.
2. Select neutral gear, set selector lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

**Warning**

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

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check oil level before seeking assistance of a workshop ⇨ 135.

**Low fuel**

 illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 113.

Bleeding the diesel fuel system  
⇨ 138.

**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 ⇨ 89.

 illuminates green.

Illuminated if the automatic light control is switched on ⇨ 89.

## High beam

 illuminates blue.

Illuminated when high beam is on and during headlight flash ⇨ 91.

## Adaptive forward lighting

 illuminates or flashes yellow.

## Illuminated


Fault in system.

If the swivelling device for curve lighting fails, the corresponding low beam light is deactivated and the front fog light is switched on.

Seek the assistance of a workshop.

## Flashes

System switched to symmetrical dipped beam.

Control indicator  flashes for approximately 4 seconds after the ignition is switched on as a reminder that the system has been activated ⇨ 92.

Automatic light control ⇨ 89.

## Fog light

 illuminates green.

Illuminated when the front fog lights are on ⇨ 93.

## Rear fog light

 illuminates yellow.

Illuminated when the rear fog light is on ⇨ 94.

## Cruise control

 illuminates white.

Illuminated when the system is on ⇨ 124.

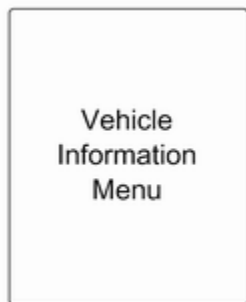
## Door open

 illuminates red.

It illuminates when a door or the tailgate is open.

## Information displays

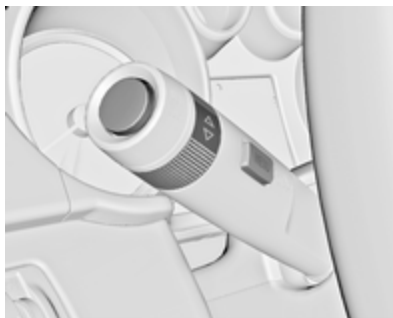
### Driver Information Center



The Driver Information Center is located in the instrument panel and available as Midlevel-Display or Uplevel-Display.

#### Selecting functions

The menus and functions can be selected by 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.

The following menus can be selected:

- **Vehicle Information Menu**
- **Trip/Fuel Information Menu**

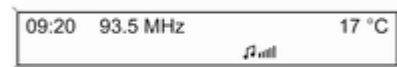
Turn the adjuster wheel to mark a menu option or to set a numeric value.

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

Vehicle personalisation ↷ 84.

Trip computer ↷ 83.

### Graphic-Info-Display, Color-Info-Display



Dependent on the infotainment system the Graphic-Info-Display is available in two versions.



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Display of time, outside temperature, date or infotainment system (when it is on) and settings for vehicle personalisation.



The Colour-Information-Display presents the information in colour.

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

### Selecting functions

Functions and settings are accessed via the display.

Selections are made via:

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

- function buttons and multifunction knob of the multifunction unit in the centre console.

### Selecting with the infotainment system



Select menu items via the menus and using the infotainment system buttons. The multifunction knob is used to select an item and confirm.

To exit a menu, press **BACK**.

### Selecting with the multifunction unit



Select menu items via the menus and using the infotainment system buttons. The multifunction knob is used to select an item and to confirm.

To exit a menu, press **BACK**.

## Vehicle messages

### Vehicle messages

Messages are given via the Driver Information Center, the Info-Display or as warning and signal buzzers. Confirm warning messages ↷ 80.

### Midlevel-Display



In the Midlevel-Display the vehicle messages are displayed as code numbers. The code numbers and their meanings are listed in the chart below.

Additionally the control indicator and with some codes also the control indicator illuminate.

### No. Vehicle message

- 1 Change Oil
- 2 No Remote Detected, Press Clutch To Restart
- 3 Coolant Level Low
- 4 Air Conditioning Off
- 5 Steering Column Is Locked
- 6 Step On Brake to Release Park Brake
- 7 Turn Steering Wheel, Turn Key Off, Then On
- 8 Turn Key Off, Then On – Repeat Breath Test
- 9 Turn Steering Wheel, Start Vehicle Again
- 10 Brakes Overheated
- 11 Brakes Worn



**No. Vehicle message**

- 12 Vehicle Overloaded
- 13 Compressor Overheated – Please Wait
- 15 High Mounted Brake Light Failure
- 16 Service Brake Lights
- 17 Headlamp Levelling Malfunction – Contact Service
- 18 Left Low Beam Failure
- 19 Rear Fog Light Failure
- 20 Right Low Beam Failure
- 21 Left Front Position Light Failure
- 22 Right Front Position Light Failure
- 23 Reversing Light Failure
- 24 License Plate Light Failure
- 25 Left Front Turn Indicator Failure
- 26 Left Rear Turn Indicator Failure

**No. Vehicle message**

- 27 Right Front Turn Indicator Failure
- 28 Right Rear Turn Indicator Failure
- 29 Check Trailer Brake Light
- 30 Check Trailer Reversing Lamp
- 31 Check Left Trailer Turn Signal Lamp
- 32 Check Right Trailer Turn Signal Lamp
- 33 Check Trailer Rear Fog Lamp
- 34 Check Trailer Rear Lamp
- 35 Replace Battery In Remote Key
- 48 Clean Side Blind Zone Alert
- 49 Lane Departure warning Unavailable
- 50 Reset Hood – See Owners Manual
- 51 Compass, See Owners Manual

**No. Vehicle message**

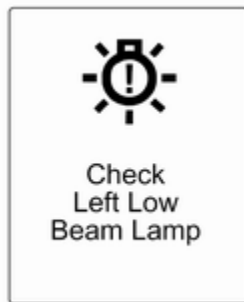
- 53 Tighten Gas Cap
- 54 Water In Fuel – Contact Service
- 55 Service Diesel Particulate Filter
- 56 Pressure Imbalance - Front
- 57 Pressure Imbalance - Rear
- 58 Winter Tire Recognition
- 59 Open, Then Close Driver Window
- 60 Open, Then Close Front Passenger Window
- 61 Open, Then Close Rear Left Passenger Window
- 62 Open, Then Close Rear Right Passenger Window
- 63 Open, Then Close Midgate Window
- 64 Open, Then Close Endgate Window
- 65 Theft Attempted

**No. Vehicle message**

- 66 Service Theft Alarm
- 67 Service Steering Column Lock
- 68 Service Power Steering
- 69 Service Suspension System
- 70 Service Levelling System
- 71 Service Rear Axle
- 73 Service All Wheel Drive System
- 74 AFL Lamps Need Service
- 75 Service A/C System
- 76 Service Side Blind Zone Alert
- 77 Service Lane Departure Warning
- 78 Service Pedestrian Protection System
- 79 Engine Oil Low – Add Oil
- 80 Change Trans Fluid
- 81 Service Transmission

**No. Vehicle message**

- 82 Change Engine Oil Soon
- 83 Service Adaptive Cruise Control
- 84 Engine power is reduced
- 98 Manually Close Power Liftgate
- 99 Pedestrian Protection System Disabled

**Uplevel-Display**

In the Uplevel-Display 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 systems
- Brakes
- Drive systems
- Ride control systems
- Cruise control
- Object detection systems
- Lighting, bulb replacement
- Wiperwasher system
- Doors, windows
- Remote control
- Seat belts
- Airbag system
- Engine and transmission
- Tyre pressure

## Warning chimes

### When starting the engine or whilst driving

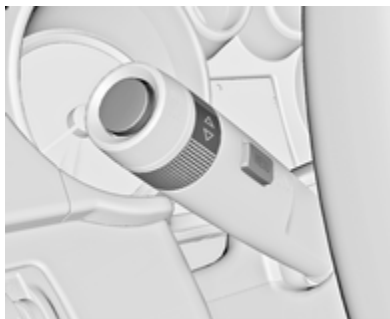
- If seat belt is not fastened.
- If a door or the tailgate is not fully closed when starting off.
- If a certain speed is exceeded with parking brake applied.
- If a programmed speed is exceeded.
- If a warning message or a warning code appears in the Driver Information Center.
- If the parking assist detects an object.

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

- When the key is in the ignition switch.
- With exterior lights on.
- If the trailer hitch is not engaged.

## Trip computer

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



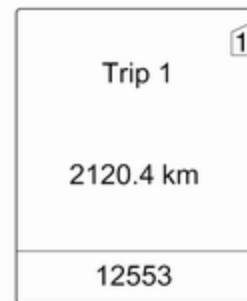
Press the **MENU** button to select the **Trip/Fuel Information Menu**.

Turn the adjuster wheel to select one of the submenus:

- Trip computer 1
- Trip computer 2
- Range
- Average consumption
- Instantaneous consumption

- Average speed
- Timer
- Route information

### Trip computer



The information of the two trip computers can be reset separately, making it possible to display different trip distances.

To reset, press the reset knob or 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**

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

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

### **Instantaneous consumption**

Display of the instantaneous consumption. At low speeds, consumption per hour is displayed.

### **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.

### **Timer**

Measurement of the time from activation to deactivation.

Press the **SET/CLR** button to start and stop the measurement.

### **Route information**

In addition to the Color-Info-Display route information is displayed when navigation is active.

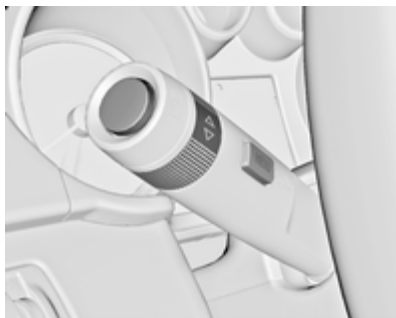
## **Vehicle personalisation**

The vehicle's behaviour can be personalised by changing settings in the Driver Information Center and in the Info-Display.

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

### **Settings in the Driver Information Center**

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



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

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



Follow the instructions given in the submenus listed below:

- **Unit:** Displayed units can be changed.
- **Tire Pressure:** ⇨ 153.
- **Remaining Oil Life:** ⇨ 70
- **Coolant Temperature:** Display of engine coolant temperature. ⇨ 70
- **Relearn Remote Key:** Relearn after battery replacement.
- **Compass:** Display of compass in combination with navigation system.

- **Battery Voltage:** Display of battery voltage.
- **Speed Warning:** If exceeding the preset speed a warning chime will be activated.
- **Language:** Displayed language can be changed.

### Settings in the Info-Display



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



The following settings can be selected:

- **Sport mode settings**
- **Time & Date**
- **Radio settings**
- **Phone settings**
- **Navigation settings**
- **Vehicle settings**
- **Display settings**

In the corresponding submenus the following settings can be changed:

### **Sport mode settings**

The driver can select the functions which will be activated in Sport mode  
⇨ 122.

- **Sport suspension:** Damping becomes harder.
- **Engine & Gearbox:** Accelerator pedal and gear change characteristics become more responsive.
- **Sport steering:** Steering becomes more direct.
- **All wheel drive:** Engine torque is distributed to a greater extent to the rear axle.
- **Main instrument illumination:** Change of instrument illumination colour.
- **Restore factory settings:** Reset all functions to factory settings.

### **Time & Date**

See Clock ⇨ 66 and Infotainment manual for further information.

### **Radio settings**

See Infotainment manual for further information.

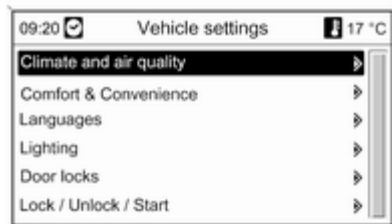
### **Phone settings**

See Infotainment manual for further information.

### **Navigation settings**

See Infotainment manual for further information.

## Vehicle settings

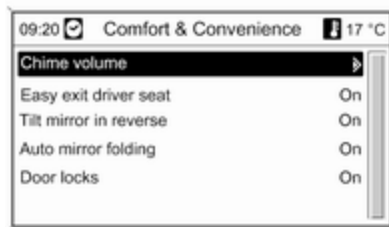


### ■ Climate and air quality

**Fan control:** Modifies the fan regulation.

**Air conditioning mode:** Activate or deactivate cooling.

**Temperature zone settings:** Change between single zone or dual zone temperature setting.



### ■ Comfort & Convenience

**Chime volume:** Change the volume of warning chimes.

**Easy exit driver seat:** Activate or deactivate easy exit function of the power seat.

**Tilt mirror in reverse:** Activate or deactivate the parking assist function of the exterior passenger mirror.

**Auto mirror folding:** Activate or deactivate folding of the exterior mirrors with remote control.

**Personalisation by driver:** Activate or deactivate the personalisation function.

**Rear auto wipe in rear reverse:** Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

### ■ Collision detection systems

**Park assistant:** Activate or deactivate the ultrasonic sensors.

**On with towbar attached:** Activate or deactivate the ultrasonic sensors when operating with a trailer.

### ■ Lighting

**Vehicle locator lights:** Activate or deactivate the entry lighting.

**Ambient lights on exit:** Activate or deactivate and change the duration of exit lighting.

### ■ Door Locks

**Prevent door locking while these are open:** Activate or deactivate the locking function while driver's door is open.

**Auto door lock:** Activate or deactivate the automatic door locking function.

**Auto door unlock:** Change the configuration to unlock only the driver's door or all doors whilst unlocking.

**Delayed door lock:** Activate or deactivate the time delay of the automatic door locking function.

■ **Remote Lock / Unlock / Start**

**Flash lights:** Activate or deactivate the turn light feedback whilst unlocking.

**Remote key door unlock:** Change the configuration to unlock only the driver's door or all doors whilst unlocking.

**Relock remote door:** Activate or deactivate the automatic relock function.

**Memory recall using remote:**  
Recalls the memorised settings with the remote control.

**Display settings**

See Infotainment manual for further information.



# Lighting



Exterior lighting .....	89
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## Exterior lighting

### Light switch



Turn light switch:

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

In the Driver Information Center with Uplevel-Display, the current status of the automatic light control is displayed.

When switching on ignition, automatic light control is always active.

Control indicator   77.

## Automatic light control



### Automatic light functions

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

**Daytime running light**

Daytime running light increases visibility of the vehicle during daylight.



Tail lamps are not on.

**Automatic headlight activation**

During poor light conditions the headlights are switched on. The system has a tunnel detection.

**Advanced Front Lighting functions**

The following light functions are only available with Bi-Xenon headlights. Light range, light distribution and power of light are variable triggered

depending on the light conditions, weather and kind of road:

**Playstreet lighting**

Activated automatically at low speed up to approx. 30 km/h (20 mph). The cone of light is turned at an angle of 8° to the roadside.

**Town lighting**

Activated automatically at a speed up to approx. 55 km/h (34 mph) and when street lights are detected by the light sensor. The light range is reduced by an extended light distribution.

**Country lighting**

Activated automatically at a speed range between approx. 55 (34) and 100 km/h (60 mph). The cone of light and the brightness is different between left and right side.

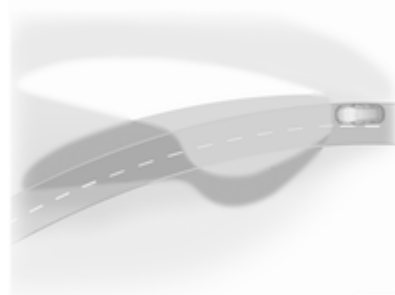
**Motorway lighting**

Activated automatically at a speed above approx. 100 km/h (60 mph) and less steering movements. It switches on delayed or directly when

vehicle is strong accelerated. The cone of light is longer and brighter.

**Adverse weather lighting**

Activated automatically up to a speed of approx. 70 km/h (43 mph), when the rain sensor recognises condensation or the wiper operates non-stop. The range, distribution and power of light is regulated variable depending on visibility.

**Dynamic curve lighting**

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

Control indicator  77.

### Corner lighting

On tight bends or when turning off, depending on the steering angle or the indicator light signal, an additional left or right reflector is switched on which illuminates the road in the direction of travel. It is activated up to a speed of 40 km/h (25 mph).

Control indicator  77.



### Reversing function

If the lights are on and reverse gear is engaged, both corner lights are switched on. They remain illuminated for 20 seconds after disengaging reverse gear or driving faster than 17 km/h (10 mph) forward.

### High Beam Assist

This feature allows high beam as main driving light by night and when vehicle speed is faster than 40 km/h (25 mph). It switches to low beam when the camera in the windscreen detects the lights of oncoming or preceding vehicles, in urban areas, if the vehicle speed is slower than 20 km/h (12 mph), or if it is foggy or

snowy. If there are no restrictions detected, the system switches back to high beam.

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

Control indicator  77.

The high beam assist can be deactivated enduring by pushing the high beam lever and it is reactivated by pushing twice. It is also deactivated when front or rear fog lights are switched on. Pulling the high beam lever will activate headlamp flash without deactivating high beam assist.

When switching on ignition, high beam assist is always active.

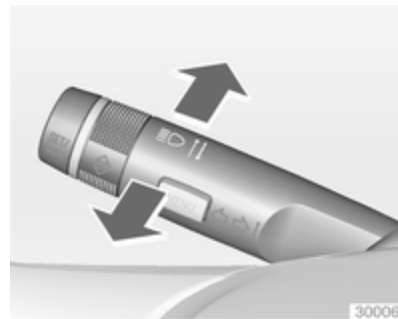
### Dynamic automatic headlight levelling

To prevent oncoming traffic from dazzling, headlight levelling is automatically adjusted based on inclination information measured by front and rear axle, acceleration or deceleration and vehicle speed.

### Headlight range error position

When the system detects a failure in the beam levelling, the system moves to a programmable error position to avoid dazzling oncoming traffic. A warning is displayed in the Driver Information Center. It is also possible that the bulb, which is out of order, will be automatically switched off.

### 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.

## Headlight range adjustment

### Manual headlight range adjustment



To adapt headlight range to the vehicle load to prevent dazzling: turn knob to required position.

- 0 = front seats occupied
- 1 = all seats occupied
- 2 = all seats occupied and load compartment load

3 = driver's seat occupied and load compartment load

Dynamic automatic headlight levelling ⇨ 89.

## Headlights when driving abroad

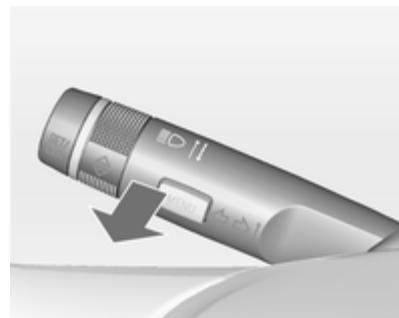
The asymmetrical headlight beam extends visibility at the edge of the road at the passenger side.

However, when driving in countries where traffic drives on the opposite side of the road, adjust the headlights to prevent dazzling.

## Vehicles with halogen headlight system

Have the headlights adjusted by a workshop.

## Vehicles with Xenon headlight system



Adapting the aim of the headlight beam:

1. Switch on ignition.
2. Pull headlight flash lever and hold until control indicator 8 starts flashing.
3. An acoustic signal sounds after approx. 3 seconds.

Control indicator 8 ⇨ 77.

Every time when ignition is switched on, 8 is flashing about 4 seconds.

For deactivation operate the same procedure as described above. ⚡ won't flash when function is deactivated.

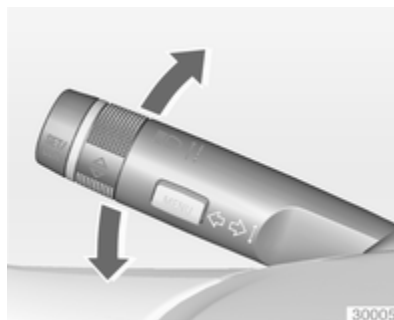
## Hazard warning flashers



Operated with the ▲ button.

The hazard warning flashers activate automatically if the airbags deploy.

## Turn and lane-change signals



lever up = right indicator  
lever down = left indicator

If the lever is moved past the resistance point, the indicator is switched on constantly. When the steering wheel moves back, the indicator is automatically deactivated. For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

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

Switch the indicator off manually by moving the lever in its original position.

## Front fog lights



Operated with the ⚡ button.


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

## Rear fog lights



Operated with the  button.

Light switch in position **Auto**: switching on rear fog light will switch on headlights automatically.

Light switch in position : rear fog light can only be switched on with front fog lights.

The vehicle rear fog light is deactivated when towing.

## Parking lights



When the vehicle is parked, the parking lights on one side can be activated:

1. Switch off ignition.
2. Move turn signal lever all the way up (right parking lights) or down (left parking lights).

Confirmed by a signal and the corresponding turn signal control indicator.

## Reversing lights

The reversing lights 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.




### Interior lights

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

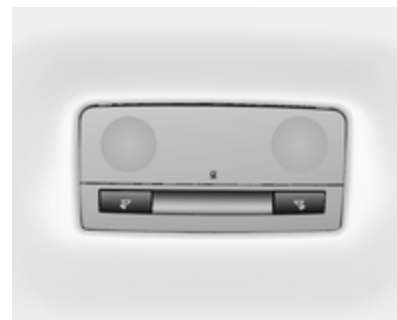
#### Front courtesy light



Operate rocker switch:

-  = automatic switching on and off.
- press  = always on.
- press  = always 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

### Centre console lighting

Spot light incorporated in the interior lighting comes on when headlights are switched on.

### Entry lighting

#### Welcome lighting

Headlights, tail lights, reversing lights, number plate lights, instrument panel light, interior lights and puddle lights are switched on by unlocking the vehicle with the remote control for a short time. This function facilitates retrieving the vehicle when it is dark.

The lighting switches off immediately when the ignition is turned to the accessory position.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84.

The settings can be stored by the key being used ⇨ 21.

### Theatre lighting

The following lights will additionally switch on when driver's door is opened:

- All switches
- Driver Information Center
- Door handle lights

### Exit lighting

The following lights switch on if the key is withdrawn from the ignition lock:

- Interior lights
- Instrument panel light
- Puddle lights

It 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 way for an adjustable time after leaving the vehicle.

### Switching on

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

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

The lighting is switched off immediately if the turn signal lever is pulled while the driver's door is open. Activation, deactivation and duration of lighting of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84.

The settings can be stored by the key being used ⇨ 21.

## Battery discharge protection

### Battery state of charge function

The function guarantees highest battery life by a generator with controllable power output and optimised power distribution.

To prevent discharge of the battery when driving, following systems are switched off automatically in three stages:

- Auxiliary heater
- Heated rear window and mirrors
- Heated seats
- Hot shot function
- Fan

In the last stage a message which confirms the activation of the battery saver will be displayed in the Driver Information Center.

### Switching off electric consumers

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

## Infotainment system

Introduction .....	98
Radio .....	98
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Phone .....	99

## Introduction

### Operation

The infotainment system is operated as described in the infotainment manual.

## Radio

### Radio reception

Radio reception may be disrupted by static, noise, distortion or loss of reception due to

- changes in distance from the transmitter,
- multi-path reception due to reflection and
- shadowing.

## Audio players

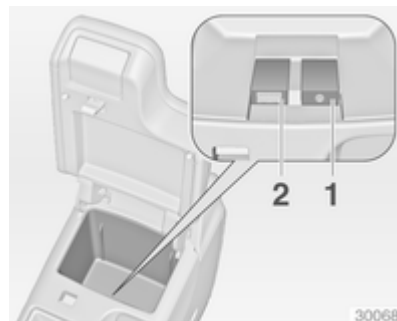
### Auxiliary devices

The AUX input and USB input are located in the armrest between the front seats.

Always keep the AUX input and USB input clean and dry.

Further information is available in the infotainment manual.

### AUX input



An external audio source such as portable CD player can be connected

using a 3.5 mm jack plug via the AUX input 1.

### USB input

External storage devices (e.g. iPod, CD player, memory stick) can be connected via the USB input 2.

Caution
The length of the external storage device must not be longer than 70 mm.

For connecting use an adapter lead.

## Phone

### Mobile phones and CB radio equipment

#### Installation instructions and operating guidelines

The vehicle specific installation instructions and the operating guidelines of the mobile phone and handsfree manufacturer must be observed when installing and operating a mobile telephone. Failure to do so could invalidate the vehicle type approval (EU directive 95/54/EC).

Recommendations for fault-free operation:

- Professionally installed exterior antenna to obtain the maximum range possible,
- Maximum transmission power 10 Watt,
- Installation of the phone in a suitable spot, consider relevant Note ↗ 45.

Seek advice on predetermined installation points for the external antenna or equipment holder and ways of using devices with a transmission power exceeding 10 watts.

Use of a handsfree attachment without external antenna with mobile telephone standards GSM 900/1800/1900 and UMTS is only permitted if the maximum transmission power of the mobile telephone is 2 watts for GSM 900 or 1 watt for the other types.

For reasons of safety, do not use the phone while driving. Even use of a handsfree set can be a distraction while driving.

#### Warning

Operate radio equipment and mobile telephones which fail to meet above mentioned mobile telephone standards only using an antenna located outside of the vehicle.

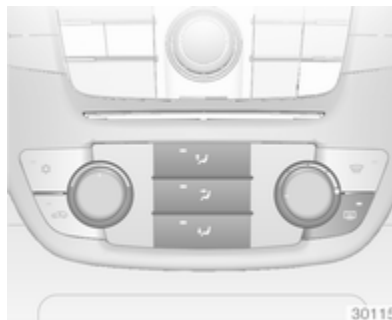
#### Caution

Mobile telephones and radio equipment may lead to malfunctions in the vehicle electronics when operated inside the vehicle with no exterior aerial, unless the above mentioned regulations are observed.

# Climate control

## Climate control systems

### Heating and ventilation system



Controls for:

- Temperature
- Air distribution
- Fan speed




Heated rear window  32.

### Temperature

red = warm  
blue = cold

Heating will not be fully effective until the engine has reached its operating temperature.

### Air distribution

-  = to windscreen and front door windows
-  = to head area via adjustable air vents
-  = to foot well

Intermediate settings are possible.

### Fan speed

Adjust the air flow by switching the fan to the desired speed.

## Air conditioning system



Additional to the heating and ventilation system, the air conditioning system has:

- = cooling
- = air recirculation
- = demisting and defrosting

### Cooling

Operated with the button and is functional only when the engine and fan are running.

The air condition system cools and dehumidifies (dries) when outside temperature is a little above the

freezing point. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the cooling system off to save fuel.

### Air recirculation system

The air recirculation mode is operated with the button.

#### 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.

Air distribution to : Air recirculation is deactivated.

### Maximum cooling

Briefly open the windows so that hot air can disperse quickly.


- Cooling on.

- Air circulation system on.
- Press air distribution switch .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

## Demisting and defrosting the windows



- Press button : fan automatically switches to higher speed, the air distribution is directed at the windscreen,
- Switch Cooling on.

- Set temperature control to warmest level.
- Switch on heated rear window .
- Open side air vents as required and direct them towards the door windows.



## Electronic climate control system

Two versions of climate control: single zone or dual zone temperature setting. The dual zone climate control allows different climatisation temperatures for driver and passenger side.



### Single zone controls:



- Temperature
- Air distribution
- Fan speed

**AUTO** = automatic mode  
 = air recirculation  
 = demisting and defrosting



### Dual zone controls:

- Temperature on driver side
- Air distribution
- Fan speed
- Temperature on passenger side

**AUTO** = automatic mode  
 = air recirculation  
 = demisting and defrosting

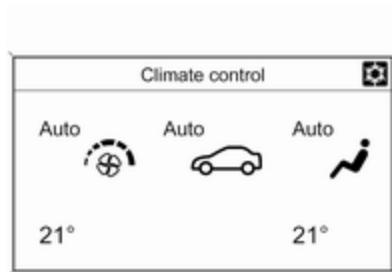
Heated rear window  ⇨ 32.

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 by use of air distribution and air flow controls.



Data is shown on the climate display. It may appear differently depending on single zone or dual zone climate control.



Each change of settings is shown in the Info-Display for a few seconds.

Climate control system settings are saved in the key used to lock the vehicle.

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

Do not cover the sensor on the instrument panel for correct operation.

## Automatic mode AUTO



Basic setting for maximum comfort:

- Press **AUTO** button, the air conditioning is activated automatically.
- Open all air vents.
- Single zone climate control: Set pre-selected temperature using left rotary knob.





- Dual zone climate control: Set the preselected temperatures for driver and passenger using the left and right rotary knob.

The fan speed regulation in automatic mode can be changed in the menu **Settings**.

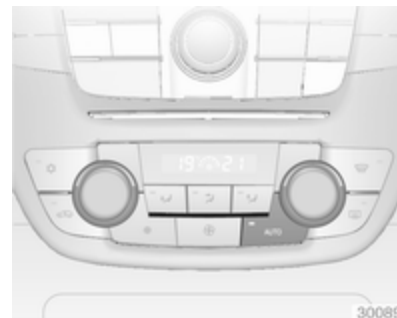
Vehicle personalisation ⇨ 84

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

### Temperature preselection



Temperatures can be set to the desired value.






If the minimum temperature is set, the climate control system runs at maximum cooling.

If the maximum temperature is set, the climate control system runs at maximum heating.

Dual zone climate control: for common setting use of temperature values use basic settings menu.

### Demisting and defrosting the windows

- Press button .
- Press cooling button .

- Temperature and air distribution are set automatically and the fan runs at high speed.
- To return to automatic mode: press button  or **AUTO**.

Switch on heated rear window .

### Manual settings

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

#### Fan speed single zone climate control




Turn right rotary knob. The selected fan speed is indicated by the number of segments in the display.

If the fan is switched off the air conditioning is also deactivated.

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

#### Fan speed dual zone climate control





Press left button  for decreasing fan speed or right button  for increasing. The fan speed is indicated by the number of segments in the display.


Pressing the left button longer, fan and cooling are switched off.


Pressing the right button longer, the fan runs with maximum speed.


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

### Air distribution

Press ,  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.


The air condition system cools and dehumidifies (dries) when outside temperature is above a specific level. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the cooling system off to save fuel.

### Automatic air recirculation

The automatic air recirculation system has an air humidity sensor which switches automatically to external air, if internal air humidity is too high.

### Manual air recirculation mode

The manual air recirculation mode is operated with the  button.

#### 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.

### Basic settings

Some settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ↗ 84.

### Auxiliary heater

#### Air heater

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

## Air vents

### Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.



To open vent, turn the adjuster wheel to I.



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

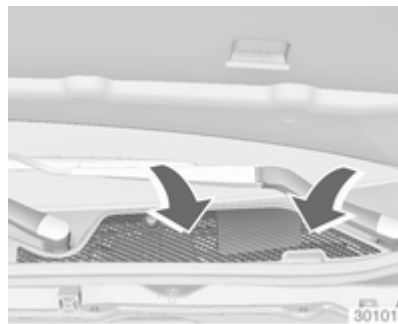
To close the vent, turn the adjuster wheel to O.

### Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the foot wells.

## 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

The pollen filter cleans dust, soot, pollen and spores from the air entering the vehicle through the air intake.

## **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 low.

## **Service**

For optimal cooling performance, it is recommended to annually check the climate control system, starting three years after initial vehicle registration.

- Functionality and pressure test
- Heating functionality
- Leakage check
- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

## Driving and operating

### 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.

### Starting and operating

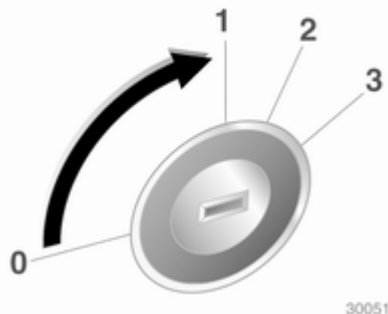
#### New vehicle running-in

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.

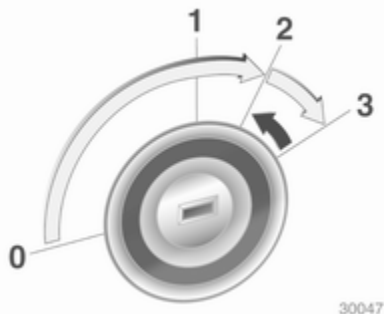
Fuel and engine oil consumption may be higher during the running-in period.

## Ignition switch positions




- 0** = Ignition off
- 1** = Steering wheel lock released, ignition off
- 2** = Ignition on, for diesel engine: preheating
- 3** = Starting

## Starting the engine



Manual transmission: operate clutch;  
Automatic transmission: operate  
brake and move selector lever in **P** or **N**;

Do not accelerate;

Diesel engine: turn the key to position **2** for preheating until control indicator  goes out;

Turn key short to position **3** and release: an automatic procedure operates the starter with a short delay as long as the engine is running, see Automatic Starter Control.

Before restarting or to switch off the engine, turn key back to **0**.

## Automatic Starter Control

This function controls the engine start procedure. The driver does not have to hold the key in crank position. Once applied, the system will go on starting automatically until the engine is running. Because of the checking procedure, engine starts running with a short delay.

Reasons for engine not starting can be:

- Clutch pedal not operated (manual transmission).
- Brake pedal not operated or selector lever not in **P** or **N** (automatic transmission).
- Timeout occurred.

## Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

## Parking

- Do not park the vehicle on an easy flammable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake. Manual parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the footbrake at the same time to reduce operating force.
- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or 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, engage reverse gear or set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.

- Lock the vehicle and activate the anti-theft alarm system.

## 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.

## Diesel particle filter


The diesel particle filter system filters harmful soot particles out of the exhaust gases. The system includes a self-cleaning function that runs automatically during driving. The filter is cleaned by burning off the soot particles at high temperature. This process takes place automatically under set driving conditions and may

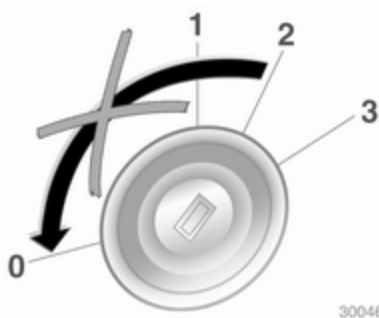


take up to 25 minutes. Fuel consumption may be higher during this period. The emission of smells and smoke during this process is normal.



Under certain driving conditions, e.g. short distances, the system cannot clean itself automatically.

If the filter requires cleaning and previous driving conditions did not enable automatic cleaning, control indicator  flashes. Continue driving, keeping engine speed above 2000 revolutions per minute. Shift down if necessary. Diesel particle filter cleaning is then started.




Stopping the journey or switching off the engine during cleaning is not recommended.

### Caution

If the cleaning process is interrupted more than once, there is a great risk of provoking severe engine damage.

Cleaning takes place quickest at high engine speeds and loads.



The control indicator  extinguishes as soon as the self-cleaning operation is complete.

### Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

**Caution**

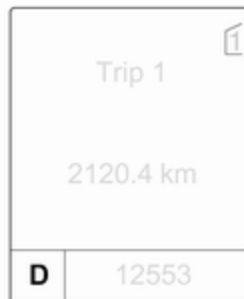
Fuel grades other than those listed on pages ⇨ 126, ⇨ 183 could damage the catalytic converter or electronic components.

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 manual gearshifting (manual mode) or automatic gearshifting (automatic 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 the ignition is on and the brake pedal is applied.



Without applied brake pedal the control indicator (P) illuminates.

If the selector lever is not in **P** when the ignition is switched off, control indicator (P) 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 or apply parking brake before starting.

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.

### Rocking the vehicle

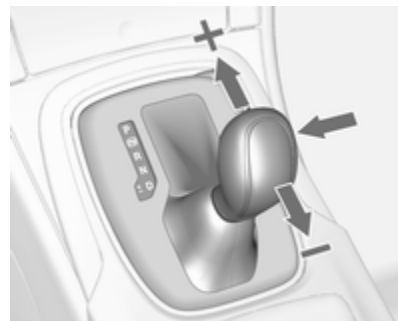
Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the selector lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

### Parking

Apply the parking brake and engage **P**.

The ignition key can only be removed when the selector lever is in position **P**.

## Manual mode



Move selector lever out of position **D** towards the left and then forwards or backwards.

**+** = Shift to a higher gear.

**-** = Shift to a lower gear.

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.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

No automatic shifting to a higher gear takes place at high engine revolutions.

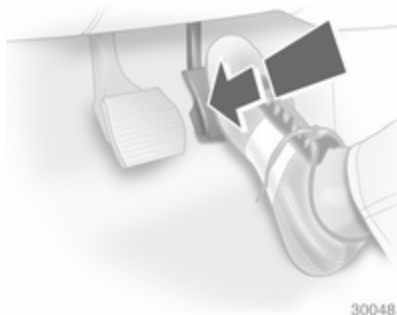
For reasons of safety, kickdown is also available in manual mode

↪ 116.

## 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.
- When Sport mode is engaged, the vehicle shifts at higher engine speeds (unless cruise control is on). Sport mode ↪ 122.

## Kickdown



If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

## Fault

In the event of a fault,  illuminates. Additionally a code number or a vehicle message is displayed in the Driver Information Center. Vehicle messages ↪ 80.

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.

Have the cause of the fault remedied by a workshop.

## Interruption of power supply

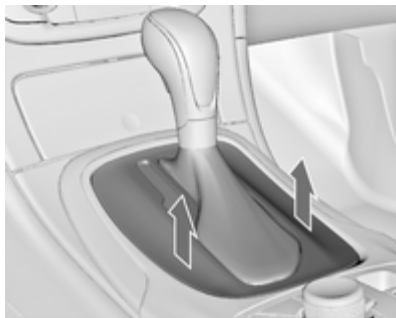
In the event of an interruption of power supply, the selector lever cannot be moved out of the **P** position. The ignition key cannot be moved out of the ignition lock.

If the battery is discharged, start the vehicle using jump leads ↪ 162.

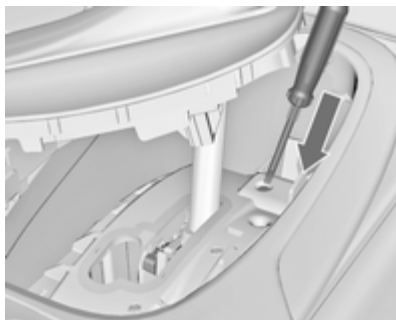
If the battery is not the cause of the fault, release selector lever and remove ignition key from ignition lock.

## Release selector lever

1. Apply parking brake.

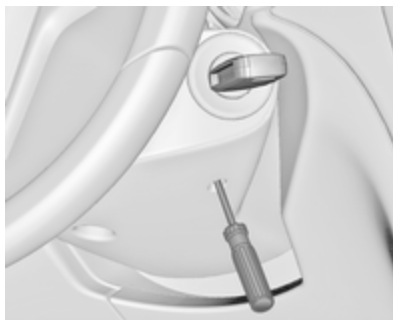


2. Release selector lever trim from centre console at rear, fold upwards and rotate to the left.



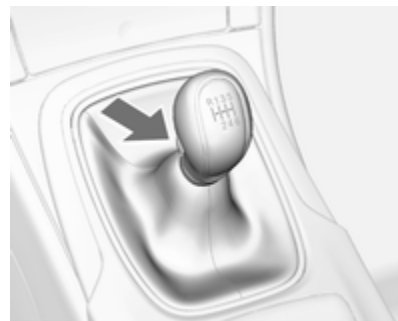
3. Insert a screwdriver into the opening as far as it will go and move the selector lever out of **P** or **N**. If **P** or **N** is engaged again, the selector lever will be locked in position again. Have the cause of the power supply interruption remedied by a workshop.
4. Mount selector lever trim on centre console and refit.

### Remove ignition key from ignition lock



Insert a screwdriver into the opening below the ignition lock as far as it will go and remove key from ignition lock.

## Manual transmission



To engage reverse, with the vehicle stationary wait 3 seconds after declutching and then pull up the button on the selector lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

## 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 service message 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.

Towing the vehicle ⇨ 164.

## 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 (ⓘ) ⇨ 74.

### 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 (ⓘ) ⇨ 75.

### Adaptive brake lamp

During full 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

### Manual parking brake



Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

To reduce the operating forces of the parking brake, depress the foot brake at the same time.

Control indicator (C) ↗ 74.

## Electronic parking brake system



### Applying when vehicle is in stationary

Pull switch (P), the parking brake operates self-acting with adequate apply force. For maximum force, e. g. parking with trailer or on inclines, pull switch (P) twice.


The electronic parking brake can always be activated, even if the ignition is off.

Do not operate electronic parking brake system too often without engine running because this will discharge the battery.

Before leaving the vehicle, check the parking brake status.

Control indicator  ↗ 74.

### Releasing the parking brake

Switch on ignition. Keep foot brake pedal depressed and then push switch .


### Drive away function


Decutching (manual transmission) or engaging drive gear (automatic transmission) and then depressing the accelerator pedal release the parking brake automatically. This is not possible when the switch is pulled.

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  is kept pulled, the parking brake system will decelerate the vehicle, but the parking brake will not apply statically.


As soon as the switch  is released, dynamic braking will be stopped.

### Fault

Failure mode of electronic braking system is indicated by a control indicator  and as a code number or a vehicle message which is displayed in the Driver Information Center. Vehicle messages ↗ 80.

Apply parking brake: pull and hold the switch  more than for 5 seconds. If control indicator  illuminates, parking brake is applied.

Release parking brake: push and hold the switch  for more than 2 seconds. If control indicator  goes out, parking brake is released.

Control indicator  flashes: parking brake is not fully applied or released. When permanently flashing, release park brake and retry applying.

### 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.

### Hill start assist

The system helps driving away on inclines by holding the vehicle. After the parking brake is disengaged and the foot brake pedal is released, the brakes are released after a 2-second delay.




## Ride control systems

### Traction Control system

Traction control system (TC) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving 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.

TC is operational as soon as the control indicator  extinguishes.

When TC 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   75.

### Deactivation



TC can be switched off when spinning of drive wheels is required: press button  for approx. 2 seconds.

Control indicator  illuminates.


TC is reactivated by pressing the  button again.


TC is also reactivated the next time the ignition is switched on.

### Electronic Stability Control

Electronic stability control (ESC) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the driving 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.

ESC is operational as soon as the control indicator  extinguishes.

When ESC 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   75.

## Deactivation



For very high-performance driving ESC can be deactivated: hold button  depressed for approx. 7 seconds.

Control indicator  illuminates.

ESC is reactivated by pressing the  button again. If the TC System was previously disabled, both TC and ESC are reactivated.

ESC is also reactivated the next time the ignition is switched on.

## Interactive driving system

### Flex Ride

Flex Ride driving system allows the driver to select between three driving modes:

- SPORT mode: press button **SPORT**, LED lights up.
- TOUR mode: press button **TOUR**, LED lights up.
- Normal mode: both buttons **SPORT** and **TOUR** are not pressed, no LED lights up.

Deactivating of SPORT mode and TOUR mode by pressing correspondent button once more.

In each driving mode Flex Ride networks the following electronic systems:

- Continuous Damping Control
- Accelerator Pedal Control
- Steering Control
- Electronic Stability Control including Traction control system and Antilock Brake System
- All-Wheel Drive

- Automatic Transmission
- Adaptive Forward Lighting



### SPORT mode

The settings of the systems are adapted to a sportier driving style:

- Damping of shock absorbers reacts harder to provide better contact with the road surface
- The engine reacts more quickly to the accelerator pedal
- Steering becomes more direct
- ESC threshold is delayed
- Engine torque of All-Wheel drive is distributed more to the rear axle

- Shift points of automatic transmission occur earlier
- Changes in light functions of Adaptive Forward Lighting occur faster
- Having SPORT mode activated, the illumination of main instruments changes from white to red

### TOUR 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 becomes more indirect
- ESC threshold occurs earlier
- Engine torque of All-Wheel drive is distributed mainly to the front axle
- Shift points of automatic transmission occur in a comfort mode
- Changes in light functions of Adaptive Forward Lighting occur in standard mode

- Illumination of main instruments is white

### Normal mode

All settings of the systems are adapted to standard values.

### Drive mode control

Within each manual selected driving mode SPORT, TOUR or Normal, 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 changes self-acting the settings within the selected driving mode or when recognising greater variations, the driving mode is changed for the length of variation.

If, for example, **Normal** mode is selected and DMC detects a sporty driving behaviour, DMC changes several settings of the Normal mode into sporty settings. The DMC changes to **Sport** mode in case of very sporty driving behaviour.

If, for example, TOUR 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, steering and ESC 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 the pre-selected driving mode.

### Personalised settings in the Sport mode

The driver can select the functions of the SPORT mode when **SPORT** button is pushed. These settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 84

## Cruise control

The cruise control can store and maintain speeds of approx. 30 (20) to 200 km/h (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.





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  77.

### Activation

Press rocker switch  down, control indicator  lights up. Accelerate to the desired speed and turn thumb wheel to **SET/+** or **SET/-**, the current speed is stored and maintained. 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.

If the ignition is switched off with activated cruise control, it remains active when ignition is switched on again.

### Increase

With cruise control active, hold thumb wheel turned to **SET/+** or briefly turn to **SET/+** repeatedly: speed increases continuously or in small increments.



Alternatively accelerate to the desired speed and store by turning to **SET/+**.

### Reduction

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly: speed decreases continuously or in small increments.

Alternatively decelerate to the desired speed and store by turning to **SET/-**.

### Deactivation

Press rocker switch  up, control indicator  goes out. Cruise control is deactivated.


Automatic deactivation:

- vehicle speed below approx. 30 km/h (20 mph),
- the brake pedal is depressed,
- the clutch pedal is depressed,
- selector lever in **N**,
- the Traction Control System or Electronic Stability Control is operating.

### Resume of the stored speed

Turn thumb wheel to **SET/+** at a speed above 30 km/h (20 mph). The pre-set speed will be obtained.

### Deleting the pre-set speed

The pre-set speed will be deleted by pressing button  or switching off ignition.

## Object detection systems

### Parking assist



Parking assist makes parking easier by measuring the distance between the vehicle and obstacles, and giving an acoustic signal in the passenger compartment. It is the driver, however, who maintains full responsibility for parking.

The system consists of four ultrasonic parking sensors in each of the front and rear bumpers.

Control indicator  75.


### Note

Attached parts in the detection area cause system malfunction.

### Activation



When reverse gear is engaged, the system is activated automatically.

The front parking assist can also be activated at low speeds by pressing the  button.

An illuminated LED located in the park assist button indicates that the system is ready for operation.


An obstacle is indicated by buzzers. The interval between the buzzers

becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 30 cm (11,8 inches), the buzzer is continuous.

### 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.


### 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, **P** illuminates and a vehicle

message is displayed in the Driver Information Center.

Additionally if the system does not work due to temporary conditions like snow covered sensors, **P** illuminates or a vehicle message is displayed in the Driver Information Center.

Vehicle messages ⇨ 80.

### Towing equipment

The system automatically considers a factory-fitted towing equipment.

The parking sensors are deactivated when towing.

## Fuel

### Fuel for petrol engines

Only use unleaded fuel that complies with DIN EN 228.

Equivalent standardised fuels with an ethanol content of max. 10% by volume may be used.

Use fuel with the recommended octane rating ⇨ 183. 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.

### Fuel for diesel engines

Only use diesel fuel that complies with DIN EN 590. The fuel must have low sulphur content (max. 50 ppm). Equivalent standardised fuels with a biodiesel (= FAME according to EN14214) content of max. 7% by

volume (like DIN 51628 or equivalent standards) may be used.

Do not use marine diesel oils, heating oils or entirely or partially plant-based diesel fuels, such as rape seed oil or bio diesel, Aquazole and similar diesel-water emulsions. Diesel fuels must not be diluted with fuels for petrol engines.

The flow and filterability of diesel fuel are temperature-dependent. When temperatures are low, refuel with diesel fuel with guaranteed winter properties.

## Refuelling



### **⚠ Danger**

Before refuelling, switch off engine and any external heaters with combustion chambers. Switch off any mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

### **⚠ Danger**

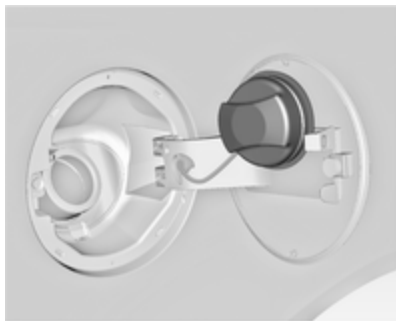
Fuel is flammable and explosive. No smoking. No naked flames or sparks.

If you can smell fuel in your vehicle, have the cause of this remedied immediately by a workshop.

Fuel filler flap is located at 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.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

### Caution

Wipe off any overflowing fuel immediately.

### Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

## Fuel consumption - CO<sub>2</sub>-Emissions

The determination of fuel consumption is regulated by European directive 80/1268/EEC (latest edition 2004/3/EC).

The directive is oriented to actual driving practices: Urban driving is rated at approx.  $\frac{1}{3}$  and extra urban driving with approx.  $\frac{2}{3}$ . Cold starts and acceleration phases are also taken into consideration.

The specification of CO<sub>2</sub> emission is also a constituent of the directive.

The figures given must not be taken as a guarantee for the actual fuel consumption of a particular vehicle. Furthermore, fuel consumption is dependent on personal driving style as well as road and traffic conditions.

All values are based on the EU base model with standard equipment.

The calculation of fuel consumption takes account of the vehicle's kerb weight, ascertained in accordance with the regulations. Options may

result in slightly higher fuel consumption and CO<sub>2</sub> emission levels and a lower top speed.

Fuel consumption, CO<sub>2</sub> emissions

⇒ 185.



## Towing

### General information

The factory-fitted towing equipment is folded up under the rear bumper fascia.

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.

Installation dimensions of factory-fitted towing equipment ⇨ 204.

### 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 1400 kg the use of a stabiliser is strongly

recommended when driving above 80 km/h (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 ⇨ 191.

### 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 1000 metres above sea level. Since engine power decreases as altitude increases because of the air becoming thinner, therefore reducing climbing ability, the permissible gross train weight also decreases by 10 % for every 1000 metres 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 ⇨ 181.

### 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 (85 kg) 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 25 kg.

### Rear axle load

When the trailer is coupled and the towing vehicle fully loaded, the permissible rear axle load (see identification plate or vehicle documents) may be exceeded by 65 kg and the gross vehicle weight rating by 90 kg. If the permissible rear axle load is exceeded, a maximum speed of 100 km/h (60 mph) applies.

### Towing equipment

#### Caution

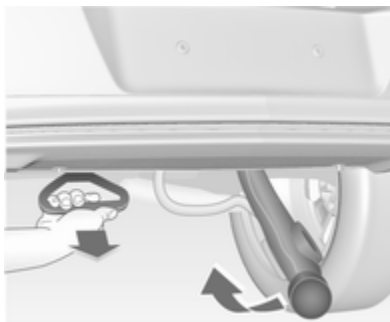
The folding coupling ball bar can't be removed from the vehicle. When driving without a trailer, fold in the coupling ball bar.

#### ⚠ Warning

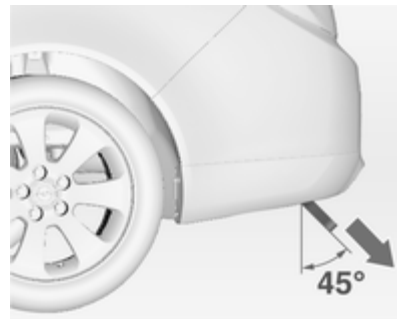
Make sure that no one is in the pivot zone of the coupling ball bar. Risk of body injury.

When releasing the stowed ball bar, make sure to stand left of the grip.

### Release stowed coupling ball bar



Pull the grip under the rear bumper fascia at an angle of approx. 45° to the ground.

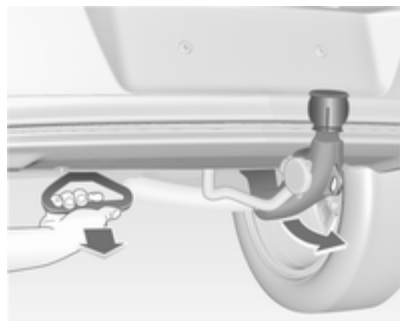


A buzzing tone sounds as a warning when the ball neck is disengaged.

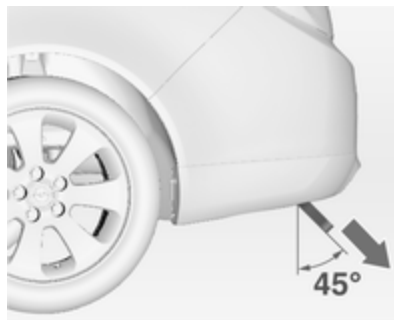
Take the released coupling ball bar and raise it up until it engages.

Be sure to have the coupling ball bar correctly engaged, otherwise the buzzing tone won't stop.

### Stow/hide coupling ball bar



Pull the grip under the rear bumper fascia at an angle of approx. 45° to the ground.



A buzzing tone sounds as a warning when the ball neck is disengaged.

Hold the released coupling ball bar and swivel it to the right until it engages under the floor.



Be sure to have the coupling ball bar correctly engaged, otherwise the buzzing tone will not stop.

#### **⚠ Warning**

Towing a trailer is permitted only when the coupling ball bar is fitted correctly. If the coupling ball bar does not engage correctly or if buzzing tone doesn't sound when engaging the coupling ball bar, seek the assistance of a workshop.

**Eye for break-away stopping cable**

Attach break-away stopping cable to eye.

**Trailer stability assist**

If the system detects snaking movements, engine power is reduced and the vehicle/trailer combination is selectively braked until the snaking ceases. While system is working keep steering wheel as still as possible.

Trailer stability assistant (TSA) is a function of the Electronic Stability Control ⇨ 121.

## Vehicle care

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## General Information

### Accessories and vehicle modifications

We recommend to use Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee for 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 anti-freeze 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 electronic of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.

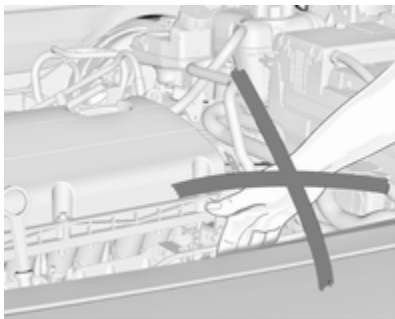
- Check the engine oil level.
- Check the coolant level.
- Fit the number plate if necessary.

## 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**

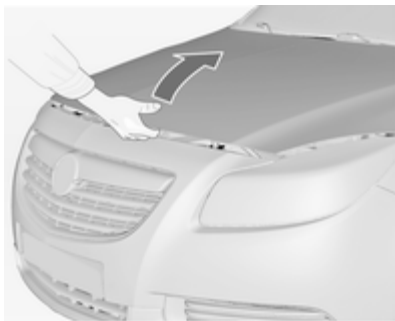
The ignition system and Xenon headlamps use extremely high voltage. Do not touch.

## 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 ⇨ 108.

### Closing

Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

### Engine oil

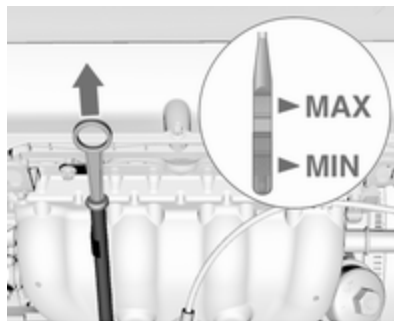
Engine oil level is checked automatically ⇨ 80. It is advisable to

check the engine oil level manually before embarking on a long journey.

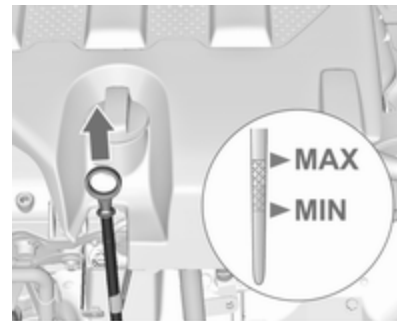
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 5 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

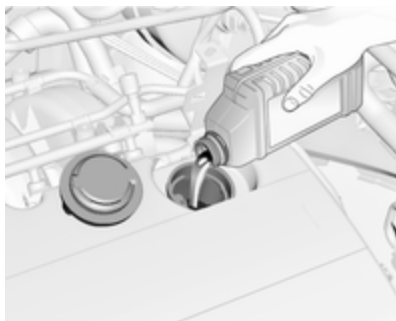
Insert dipstick to the stop on the handle and make half a turn.



Different dipsticks are used depending on engine variant.



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.

Capacities ⇨ 190.

Fit the cap on straight and tighten it.

## Engine coolant

The coolant provides freeze protection down to approx. -28 °C.

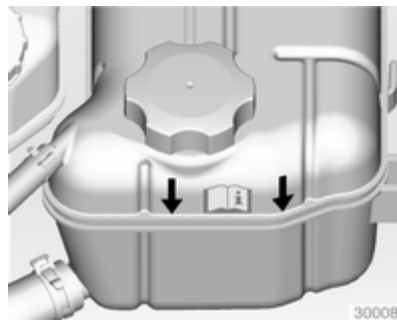
### Caution

Only use approved anti-freeze.

## 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.

### ⚠ Warning

Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with anti-freeze. If no anti-freeze is available, use clean tap water or distilled water. Install the cap tightly. Have the anti-freeze




concentration checked and have the cause of the coolant loss remedied by a workshop.

## Washer fluid



Fill with clean water mixed with a suitable quantity of windscreen wash solution which contains anti-freeze.

## Brakes

In the event of minimum thickness of the brake lining,  illuminates. Additionally a code number or a vehicle message is displayed in the

Driver Information Center. Vehicle messages ⇨ 80.

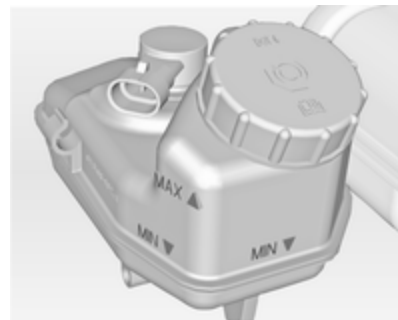
Continued driving is possible but have the brake lining replaced as soon as possible.

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 reason for the loss of brake fluid remedied by a workshop.

Only use high-performance brake fluid approved for your vehicle.

## Battery

The vehicle battery is maintenance-free.

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.

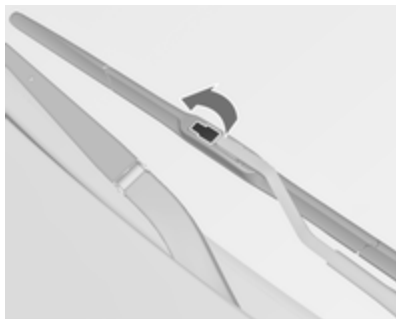
Battery discharge protection ⇨ 97.

### Diesel fuel system bleeding

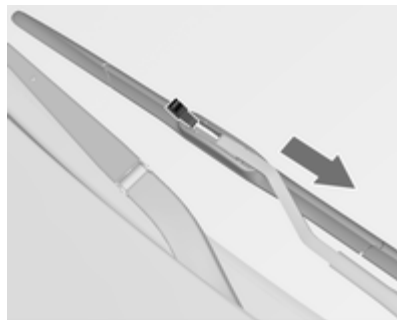
If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition three times for 15 seconds at a time. Then start the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of a workshop.

### Wiper blade replacement

#### Wiper blades on the windscreen

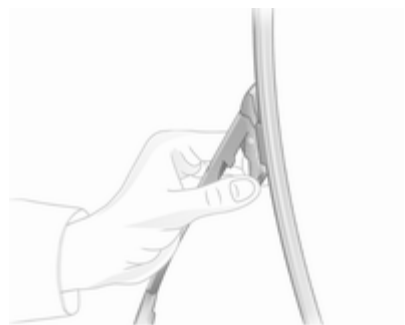


Lift the wiper arm, open the retaining clip.



Disengage the wiper blade and remove.

## Wiper blades on the rear window



Lift the wiper arm, press the two catches on the arm, disengage the wiper blade and remove.

## Bulb replacement

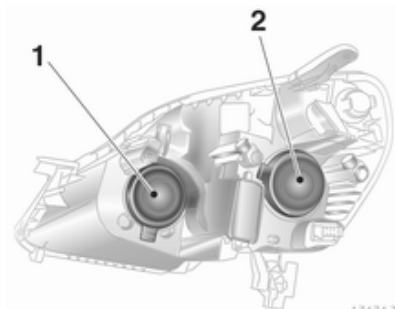
Switch off the ignition and switch off the relevant switch or close the doors.

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 headlamp bulbs from within the engine compartment.

## Halogen headlights



Headlights have separate systems for high beam **1** (inner bulbs) and low beam **2** (outer bulbs).

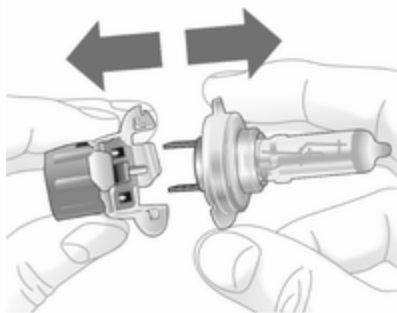
### Low beam



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 and rotate clockwise to secure.
5. Rotate bulb carrier to right as far as it will go.
6. Fit cap and rotate clockwise.

### High beam



1. Rotate cap 2 anti-clockwise and remove.
2. Detach wiring connector from bulb.

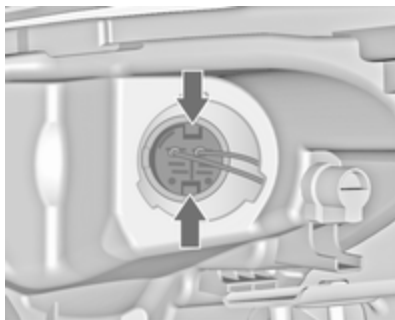


3. Disengage spring clip from retainer by pressing forward and then swing downward.
4. Withdraw bulb from reflector housing.
5. When installing the new bulb, insert lugs in the reflector recesses and engage the spring clip.
6. Install the wiring connector onto bulb.
7. Fit cap and rotate clockwise.

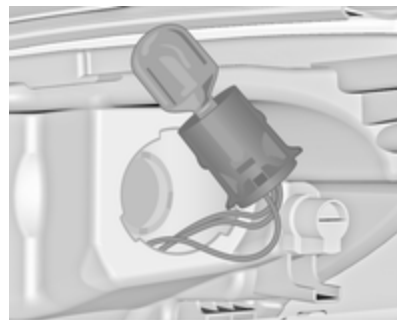
## Parking lights



1. Rotate cap anti-clockwise and remove.



2. Press latches and withdraw parking lamp bulb holder from reflector.

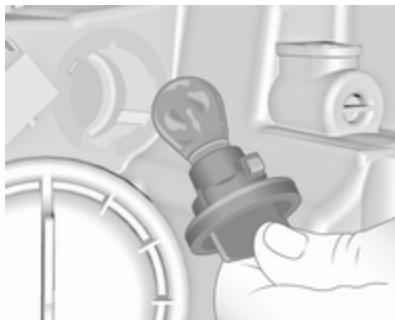


3. Remove bulb from socket and renew bulb.
4. Insert holder in reflector. Fit cap and rotate clockwise.

### Front turn signal



1. Rotate bulb holder anti-clockwise and disengage.



2. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
3. Insert bulb holder in reflector, rotate clockwise to engage.

### Xenon headlights

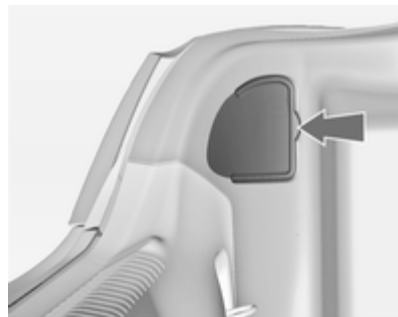
#### **⚠ Danger**

Xenon headlights work under extremely high electrical voltage. Do not touch. Have bulbs replaced by a workshop.

### Fog lights

Have bulbs replaced by a workshop.

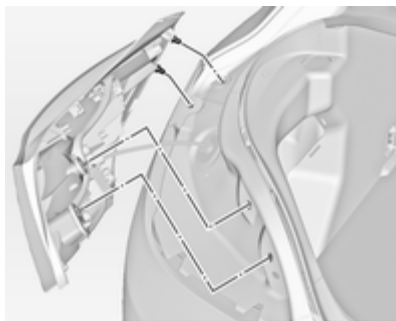
### Tail lights



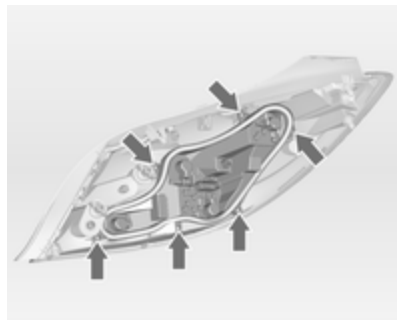
1. Release cover and remove.



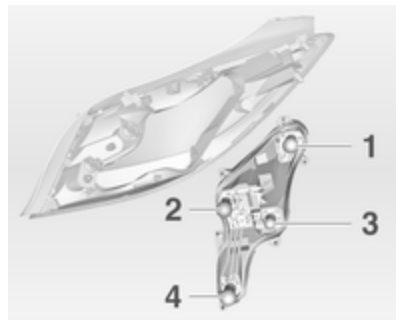
2. Unscrew two plastic securing nuts from the inside by hand.



3. Remove tail light assembly. Take care that the cable duct remains in position.  
Detach wiring plug from bulb holder.



4. Unscrew the screws and remove bulb holder.



5. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.

Tail light/brake light (1)

Turn signal light (2)

Tail light (3)

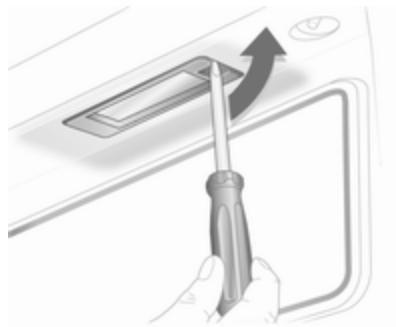
Reverse light / Fog tail light, may be only on one side (4)

6. Insert bulb holder into the tail light assembly and screw into place. Connect wiring plug. Install tail light assembly in body and tighten securing nuts. Close cover and engage.
7. Switch on ignition, operate and check all lights.

## Side turn signal lights

Have bulbs replaced by a workshop.

## Number plate light



1. Insert screwdriver in bulb housing, press to the side and release spring.



2. Remove bulb housing downward, taking care not to pull on the cable.
3. Lift flap and disconnect wiring plug from bulb holder.



4. Rotate bulb holder anti-clockwise to disengage.
5. Remove bulb from holder and renew bulb.
6. Insert bulb holder in bulb housing and rotate clockwise.
7. Connect wiring plug to bulb holder.
8. Insert and engage bulb housing.

## 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:

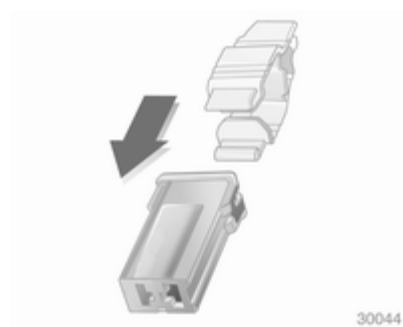
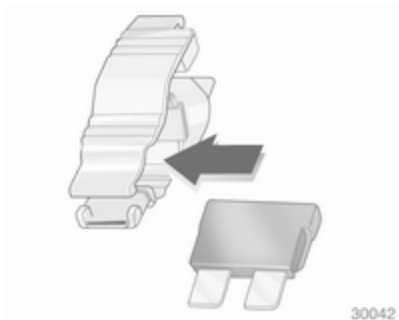
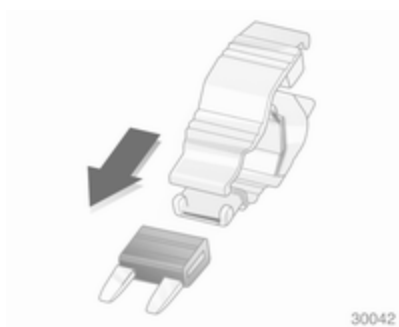
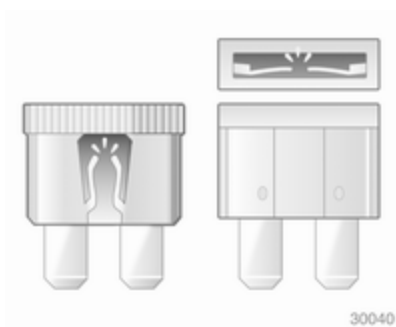
- in the front left of the engine compartment,
- in the interior behind the storage compartment, or, in right-hand drive vehicles, behind the glovebox,
- behind a cover on the left side of the load compartment.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised 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.

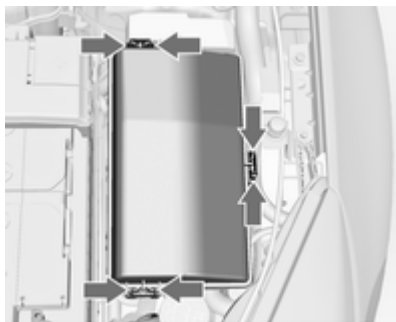


Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

### Fuse extractor

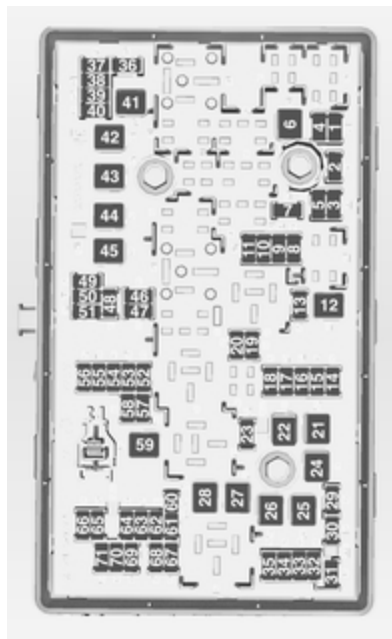
A fuse extractor may be located in the fuse box in the engine compartment.

## 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

- | No. | Circuit  |
|-----|--|
| 1   | Transmission control module                                  |
| 2   | Engine control module  |
| 3   | –  |
| 4   | –  |
| 5   | Ignition, Transmission control module, Engine control module |
| 6   | Windscreen wipers  |
| 7   | –  |
| 8   | Fuel injection, ignition system                              |
| 9   | Fuel injection, ignition system                              |
| 10  | Engine control module  |
| 11  | Lambda probe   |
| 12  | Starter  |
| 13  | Blow by sensor   |
| 14  | Lighting   |
| 15  | Rear window wiper  |

**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**

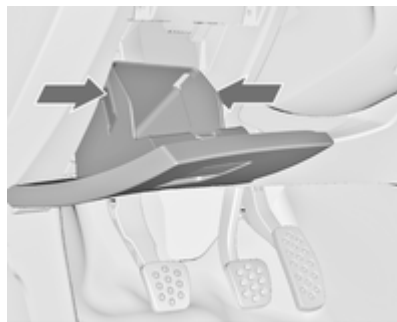
- 32** Body control module
- 33** Heated front seats
- 34** Sunroof
- 35** Infotainment system
- 36** –
- 37** Right high beam
- 38** Left high beam
- 39** –
- 40** After boil pump
- 41** Vacuum pump
- 42** Radiator fan
- 43** Washer fluid heating
- 44** Headlamp washer system
- 45** Radiator fan
- 46** Terminal 87, main relay
- 47** Lambda probe
- 48** Fog lights

**No. Circuit**

- 49** Right dipped beam
- 50** Left dipped beam
- 51** Horn
- 52** Ignition
- 53** Ignition, ventilated front seats
- 54** Ignition
- 55** Power windows, mirror folding
- 56** Windscreen washer
- 57** Ignition
- 58** –
- 59** Diesel fuel heating
- 60** Mirror heating
- 61** Mirror heating
- 62** Canister Vent Solenoid
- 63** Rear window sensor
- 64** Adaptive Forward Lighting
- 65** Horn

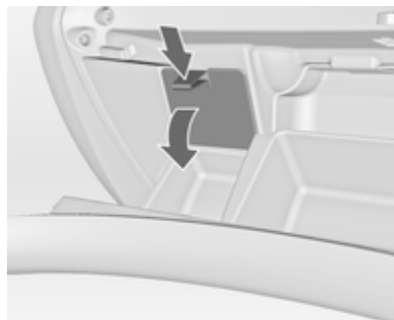
**No. Circuit**

- 66 Rear window washer system
- 67 Fuel system control module
- 68 –
- 69 Battery sensor
- 70 Rain sensor
- 71 Body electronic supply

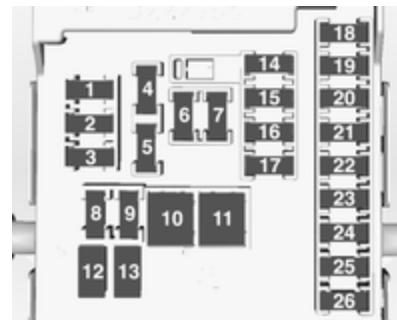
**Instrument panel fuse box**

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**

- 1 Infotainment system, info display
- 2 Body control unit
- 3 Body control unit
- 4 Infotainment system, info display
- 5 Infotainment system, info display
- 6 Cigarette lighter
- 7 Power outlet

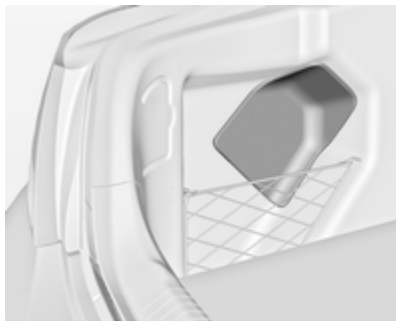
### No. Circuit

- 8 Body control unit
- 9 Body control unit
- 10 Body control unit
- 11 Interior fan
- 12 Power seats
- 13 Power seats
- 14 Diagnostic connector
- 15 Airbag
- 16 Central locking system, tailgate
- 17 Air condition system
- 18 Provision service fuse
- 19 Memory
- 20 Automatic occupant sensing system
- 21 Instrument
- 22 Ignition
- 23 Body control unit

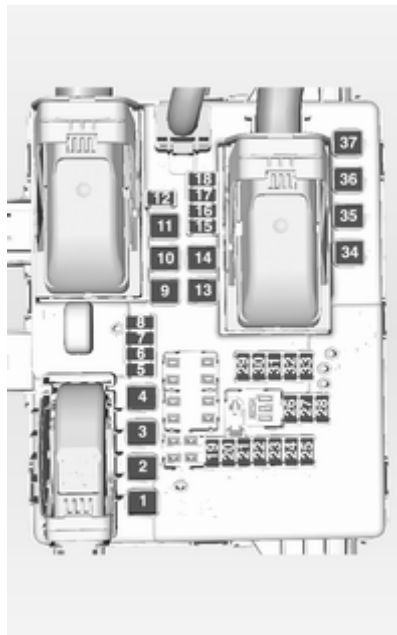
### No. Circuit

- 24 Body control unit
- 25 Ignition lock
- 26 Trunk outlet

### Load compartment fuse box



The fuse box is on the left side of the load compartment behind a cover. Remove the cover.



**No. Circuit**

- 1 Central locking system
- 2 Air conditioning system
- 3 Trailer module
- 4 –
- 5 Trailer socket
- 6 –
- 7 –
- 8 Trailer outlet
- 9 –
- 10 Coolant heater
- 11 Power seats
- 12 Memory seat
- 13 Level control system
- 14 –
- 15 Air solenoid
- 16 –
- 17 Seat heating

**No. Circuit**

- 18 Power tailgate lock
- 19 Sunshade switch
- 20 Ignition
- 21 Ignition
- 22 Sunshade
- 23 Anti-theft alarm system
- 24 Parking light left
- 25 Parking light right
- 26 Lighting
- 27 Lighting
- 28 –
- 29 Logistic mode relay protective fuse
- 30 Logistic mode relay protective fuse
- 31 Active damping system, High beam assist, Cruise control
- 32 Side obstacle detector

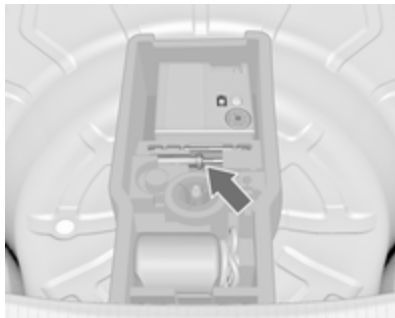
**No. Circuit**

- 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 storage compartment in the load compartment below the spare wheel. Spare wheel ⇨ 161.

## 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

Tyres of size

205/60 R 16, 215/55 R 17, 225/50 R 17, 225/45 R 18 and 235/45 R 18 are only to be used as winter tyres.

### Winter tyres

Winter tyres improve driving safety at temperatures below 7 °C.

Tyres of size 245/45 R 18, 245/40 R 19 and 245/35 R 20 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 designations

E.g. **215/60 R 16 95 H**

- 215** = Tyre width, mm
- 60** = Cross-section ratio (tyre height to tyre width), %
- R** = Belt type: Radial
- RF** = Type: RunFlat
- 16** = Wheel diameter, inches
- 95** = Load index e.g. 95 is equivalent to 690 kg
- H** = Speed code letter

Speed code letter:

- Q** = up to 160 km/h (100 mph)
- S** = up to 180 km/h (112 mph)
- T** = up to 190 km/h (118 mph)
- H** = up to 210 km/h (130 mph)
- V** = up to 240 km/h (150 mph)
- W** = up to 270 km/h (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.

Unscrew the valve cap.

On vehicles with tyre pressure monitoring system and metal tyre valve shafts, screw the adapter onto the valve. The adapter is located in the glovebox.



Tyre pressure ⇨ 191 and 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.

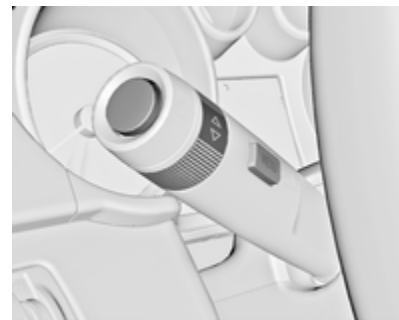
## Tyre pressure monitoring system

The tyre pressure monitoring system checks the pressure of all four wheels once a minute when vehicle speed exceeds a certain limit.

All wheels must be equipped with pressure sensors and the tyres must have the prescribed pressure.

The current tyre pressures can be shown in the **Vehicle Information Menu** in the Driver Information Center with Uplevel-Display.

The menu can be selected by the buttons on the turn signal lever.



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



Turn the adjuster wheel to select the tyre pressure monitoring system.

System status and small pressure differences are displayed by a warning message with the according tyre flashing or by a warning code in the Driver Information Center.

Furthermore considerable pressure differences between the tyres of one axle or a considerable increased tyre pressure are displayed by a warning message or by a warning code in the Driver Information Center.

Major pressure differences are indicated additionally by the control indicator (⚠).

Control indicator (⚠) ⇨ 76.

Vehicle messages ⇨ 80.

If the tyre pressure shall be reduced or increased, switch off ignition.

If a complete set of wheels without sensors is mounted (e.g. four winter tyres), a message or a code is displayed in the Driver Information Center. The tyre pressure monitoring system is not operational. Retrofitting of sensors is possible.

A spare wheel or temporary spare wheel is not equipped with pressure sensors. The tyre pressure monitoring system is not operational for these wheels. Control indicator (⚠) illuminates. For the further three wheels the system remains operational.

The use of commercially available liquid tyre repair kits can impair the function of the system. Factory approved systems can be used.

External high-power radio equipment could disrupt the tyre pressure monitoring system.

The tyre pressure monitoring system valve cores and sealing rings must be replaced each time the tyres are changed.

### Adaptive threshold function

The tyre pressure monitoring system automatically detects if the vehicle is driven with a tyre pressure appropriate for a load of up to 3 persons or for a full load.

If the tyre pressure shall be reduced, switch off ignition before reducing.

### Auto learn function

After changing wheels the vehicle has to be stationary for approx. 20 minutes, before the system gets into modus of repositioning. The following relearn process takes up to 10 minutes of driving with a speed of minimum 20 km/h (12 mph). In this case -- can be displayed or pressure values can swap in the Driver Information Center.

If problems occur during the relearn process a warning message or a warning code is displayed in the Driver Information Center.

### 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.

### Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons at a tread depth of 2-3 mm (4 mm for winter tyres).



The legally permissible minimum tread depth (1.6 mm) 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 reprogram 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 beaded edge respective rim protection rib.

Wheel covers must not impair brake cooling.

### **⚠ Warning**

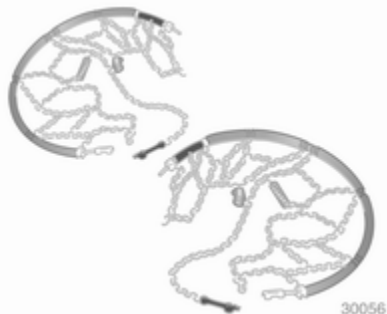
Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

### **Wheel caps**

Tyres of size 245/35 R20 have a specific wheel cap. To remove the cap from the dismantled wheel first disengage the arms one by one. Then press the cap in the middle area from behind and remove it.

To assemble first adjust the wheel cap in order that the positioning leg fits into the recess.

### **Tyre chains**



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

### **⚠ Warning**

Damage may lead to tyre blowout.

Tyre chains are not permitted on tyres of size 225/55 R 17, 245/45 R 18, 245/40 R 19 and 245/35 R 20.

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 4 mm or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

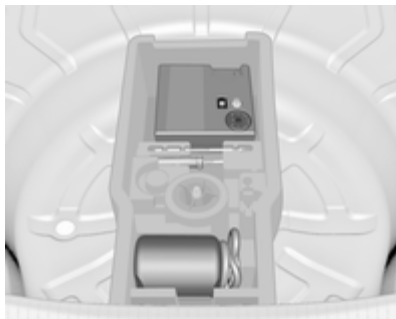
### **⚠ Warning**

Do not drive faster than 80 km/h (50 mph).

Do not use for a lengthy period. Steering and handling may be affected.

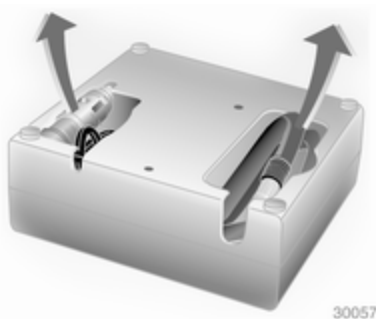
If you have a flat tyre:

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

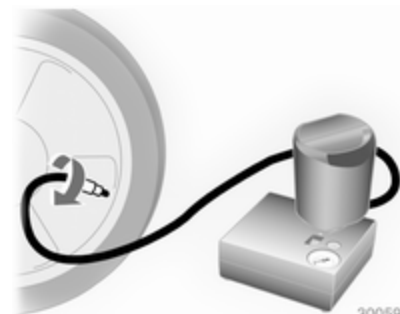
3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.



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.

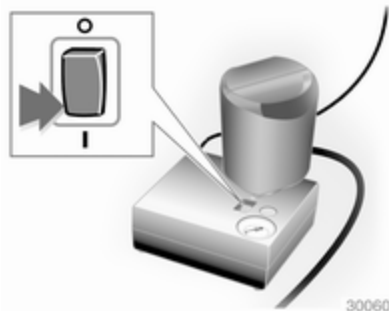


30059

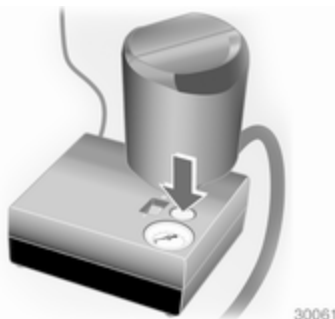
6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.

9. Connect the compressor plug to the accessory socket or cigarette lighter socket.

To avoid discharging the battery, we recommend running the engine.



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 6 bar 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.



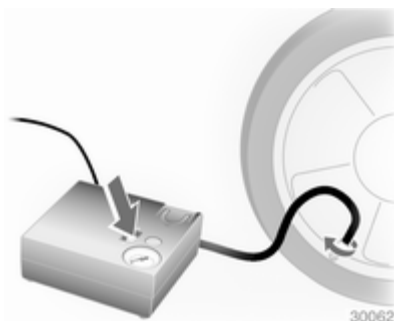
13. The prescribed tyre pressure should be obtained within 10 minutes. Tyre pressure  $\nabla$  191. When the correct pressure is obtained, switch off the compressor.

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 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. 10 km (6 mph) (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 1.3 bar, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 1.3 bar, 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 7 bar.

Note the expiry date of the kit. After this date its sealing capability is no 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. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To

remove, screw on compressor air hose and withdraw adapter.

## Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 156.

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 ⇨ 161.
- 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

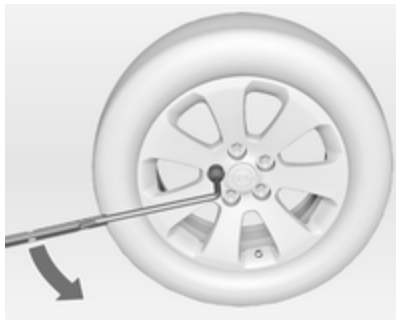
(max. 1 cm/0,4 inches thick) should be placed under the jack.

- 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 before mounting the wheel.



1. Disengage wheel nut caps with a screwdriver and remove. Pull off the wheel cover with the hook. Vehicle tools ⇨ 152.

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.

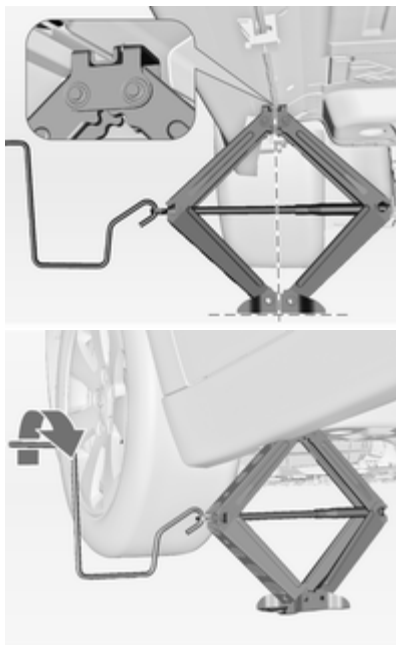


2. Fold out the wheel wrench and install ensuring that it locates securely and loosen each wheel nut by half a turn.



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 ↗ 156 and the vehicle tools ↗ 152.
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.

## 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.

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 after changing wheels, the floor cover can be placed on the projecting wheel.

### 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 80 km/h (50 mph). Take curves slowly. Do not use for a longer period of time.

Tyre chains ⇨ 156.

### 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 80 km/h (50 mph).
- Drive particularly carefully on wet and snow-covered road surfaces.

## Jump starting

Do not start with quick charger.

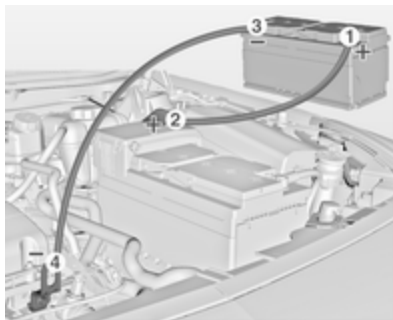
A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

### 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.

- Never expose the battery to naked flames or sparks.
- A discharged battery can already freeze at temperatures at 0 °C. Defrost the frozen battery before connecting jump leads.
- 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.

- 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 16 mm<sup>2</sup> (25 mm<sup>2</sup> for diesel engines).
- 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, transmission in neutral, 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.

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 ⇨ 152.



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 column lock and to permit operation of brake lights, horn and windscreen wipers.

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 fumes from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with manual transmission and all-wheel drive: If the vehicle is towed with all four wheels on the ground then there are no technical limitations for speed and distance. If only one axle has been raised, the maximum speed is 50 km/h (30 mph). There is no distance limitation.

Vehicles with automatic transmission and front-wheel drive: The vehicle must be towed facing forwards, not faster than 80 km/h (50 mph) and further than 100 km (60 miles). Otherwise or if the transmission is

defective, the front axle must be raised off the ground.

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 km/h (30 mph) and for a maximum of 50 km (30 miles). If the front axle has been raised, the maximum speed is 50 km/h (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 ➔ 152.



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, turn slightly clockwise and close cap.

## 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

and rear window wiper 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.

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**

Headlamp and other lamp covers are made of plastic. Do not use any abrasive or caustic agents, do not use

an ice scraper, and do not clean them dry.

### **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 the window 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 moonroof.

### **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.

### 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.



## Service and maintenance

### General information

#### Service information

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.

Service display ⇨ 70.

#### European service intervals

Due according to the indication of the oil life system, however every 30,000 km (20,000 mls) or 1 year at the latest, whichever occurs first.

Service display ⇨ 70.

#### International service intervals

Due according to the indication of the oil life system, however every 15,000 km (10,000 mls) or 1 year at the latest, whichever occurs first.

Service display ⇨ 70.

#### 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.

#### Service interval with remaining oil life duration

The length of the service intervals is based on several parameters stemming from usage. For this reason, various engine-specific data are continually gathered and is used to calculate the remaining distance until the next service.

The engine oil life system lets you know when to change the engine oil.

Service display ⇨ 70.

## Scheduled maintenance

### Service schedules

#### European service schedule

The European schedule is valid for the following countries:

Andorra, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Greenland, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom

For all other countries the international schedule is valid.

Service operations	by year <sup>1)</sup>	1	2	3	4	5
	km ( x 1000) <sup>1)</sup>	30	60	90	120	150
	miles (x 1000) <sup>1)</sup>	20	40	60	80	100
Check visually control unit, lighting unit and signalling equipment as well as airbag, check steering and ignition lock		X	X	X	X	X
Replace batteries for remote control (Do not forget the second key)		Every 2 years				
Check windscreen wipers, screen wiper system, and headlamp washer system		X	X	X	X	X
Check coolant level, anti-freeze (pale orange) <sup>2)</sup> , correct		X	X	X	X	X
Check brake fluid level <sup>2)</sup> , correct		X		X		X

<sup>1)</sup> Whichever occurs first.

<sup>2)</sup> In case of too high consumption / leakage, perform additional work with customer's agreement.

Service operations	by year <sup>1)</sup>	1	2	3	4	5
	km ( x 1000) <sup>1)</sup>	30	60	90	120	150
	miles (x 1000) <sup>1)</sup>	20	40	60	80	100
Check battery terminals are firmly located, check battery eye		X	X	X	X	X
Replace pollen filter or activated carbon filter			X		X	
● If air is badly polluted, has a high dust or sand content, or pollen, smell of the air conditioning		Agreement with customer				
Replace air cleaner insert		Every 4 years / 60.000 km / 40.000 mls				
⊕ Replace spark plugs		Every 4 years / 60.000 km / 40.000 mls				
A 20 NHT, A 28 NET		Every 8 years / 120.000 km / 80.000 mls				
Visually inspect ribbed V-belt			X		X	
Replace ribbed V-belt, A 20 DTC, A 20 DTJ, A 20 DTH		Every 10 years / 120.000 km / 80.000 mls				
Replace ribbed V-belt of water pump - power steering pump A 16 XER, A 18 XER		Every 10 years / 120.000 km / 80.000 mls				
⊕ Check valve clearance, adjust A 16 XER, A 18 XER		Every 10 years / 150.000 km / 100.000 mls				

Service operations	by year <sup>1)</sup>	1	2	3	4	5
	km ( x 1000) <sup>1)</sup>	30	60	90	120	150
	miles (x 1000) <sup>1)</sup>	20	40	60	80	100
⊕ Replace toothed belt and tension roller, A 16 XER, A 18 XER, A 20 DTC, A 20 DTH, A 20 DTJ		Every 10 years / 150.000 km / 100.000 mls				
Inspect power steering for leaks, check / correct oil level <sup>2)</sup>		X	X	X	X	X
Check hydraulic power steering (HPS) oil level (cap with dipstick)		X	X	X	X	X
Change engine oil and engine oil filter		X	X	X	X	X
⊕● Drain water from fuel filter, diesel (with high humidity and / or lower grade fuel)		X	X	X	X	X
Replace and drain fuel filter, diesel (grade EN 590)			X		X	
Visually inspect wheel mounting and suspension springs front and rear, brake lines, brake pressure hoses, fuel lines and exhaust system			X		X	
Check exterior of body/underbody corrosion protection and note any damage in the Service and Warranty Booklet		X	X	X	X	X
⊕● Visually inspect front and rear wheel brakes <sup>2)</sup>			X		X	
Annual service if annual mileage exceeds 20. 000 km						

<sup>2)</sup> In case of too high consumption / leakage, perform additional work with customer's agreement.

Service operations	by year <sup>1)</sup>	1	2	3	4	5
	km ( x 1000) <sup>1)</sup>	30	60	90	120	150
	miles (x 1000) <sup>1)</sup>	20	40	60	80	100
Engine, transmission (AT, MT), inspect air-conditioning compressor for leaks <sup>2)</sup>		X	X	X	X	X
Visually inspect folding covers on steering, tie rods and axle drive		X	X	X	X	X
Tie rod and supporting joint checking		X	X	X	X	X
⊕ Change brake and clutch fluid		Every 2 years				
Undo wheel fastening (take care if tyre pressure monitoring system is present) and tighten to torque: 150 Nm. The wheel nut taper is not allowed to be greased or oiled during assembly. Check tyre condition. Check/correct tyre pressure (including spare wheel) With tyre repair system - check completeness and expiry date of kit.			X		X	
⊕ Annual service if annual mileage exceeds 20. 000 km						
Visually inspect first-aid kit, (presence in designated stowage compartment, completeness and expiry date), lashing eyes and warning triangle		Every 2 years				
Check/correct headlight adjustment (including auxiliary headlamps)			X		X	

<sup>2)</sup> In case of too high consumption / leakage, perform additional work with customer's agreement.

Service operations	by year <sup>1)</sup>	1	2	3	4	5
	km ( x 1000) <sup>1)</sup>	30	60	90	120	150
	miles (x 1000) <sup>1)</sup>	20	40	60	80	100
Grease door hinges, door stop, lock cylinder, striker plate, bonnet lock, tailgate hinges			X		X	
Test drive, final inspection (check steering and ignition locks, instruments and indicator lights, entire brake system, steering, air conditioning, engine, body and running gear), reset service interval display		X	X	X	X	X

⊕: Additional operations.

●: Under extreme operating conditions and if required by country-specific conditions, the intervals are reduced.

### International service schedule

The international service schedule is valid for the countries which are not listed at the European service schedule.

Service operations	by year <sup>3)</sup>	1	2	3	4	5
	km ( x 1000) <sup>3)</sup>	15	30	45	60	75
	miles (x 1000) <sup>1)</sup>	10	20	30	40	50
Check visually control unit, lighting unit and signalling equipment as well as airbag, check steering and ignition lock		X	X	X	X	X
Replace batteries for remote control (Do not forget the second key)		Every 2 years				
Check windscreen wipers, screen wiper system, and headlamp washer system		X	X	X	X	X
Check coolant level, anti-freeze (pale orange) <sup>4)</sup> , correct		X	X	X	X	X
Check brake fluid level <sup>4)</sup> , correct		X		X		X
Check battery terminals are firmly located, check battery eye		X	X	X	X	X
Replace pollen filter or activated carbon filter			X		X	
● If air is badly polluted, has a high dust or sand content, or pollen, smell of the air conditioning		Agreement with customer				
Replace air cleaner insert		Every 4 years / 60.000 km / 40.000 mls				

<sup>3)</sup> Whichever occurs first.

<sup>1)</sup> Whichever occurs first.

<sup>4)</sup> In case of too high consumption / leakage, perform additional work with customer's agreement.

	by year <sup>3)</sup> km ( x 1000) <sup>3)</sup> miles (x 1000) <sup>1)</sup>	1 15 10	2 30 20	3 45 30	4 60 40	5 75 50
Service operations						
⊕ Replace spark plugs		Every 4 years / 60.000 km / 40.000 mls				
A 20 NHT, A 28 NET		Every 8 years / 120.000 km / 80.000 mls				
Visually inspect ribbed V-belt		X		X		
Replace ribbed V-belt, A 20 DTC, A 20 DTJ, A 20 DTH		Every 10 years / 120.000 km / 80.000 mls				
Replace ribbed V-belt of water pump - power steering pump A 16 XER, A 18 XER		Every 10 years / 120.000 km / 80.000 mls				
⊕ Check valve clearance, adjust A 16 XER, A 18 XER		Every 10 years / 150.000 km / 100.000 mls				
⊕ Replace toothed belt and tension roller, A 16 XER, A 18 XER, A 20 DTC, A 20 DTH, A 20 DTJ		Every 10 years / 150.000 km / 100.000 mls				
Inspect power steering for leaks, check / correct oil level <sup>4)</sup>		X	X	X	X	X
Check hydraulic power steering (HPS) oil level (cap with dipstick)		X	X	X	X	X
Change engine oil and engine oil filter		X	X	X	X	X

4) In case of too high consumption / leakage, perform additional work with customer's agreement.



Service operations	by year <sup>3)</sup>	1	2	3	4	5
	km ( x 1000) <sup>3)</sup>	15	30	45	60	75
	miles (x 1000) <sup>1)</sup>	10	20	30	40	50
⊕● Drain water from fuel filter, diesel (with high humidity and / or lower grade fuel)		X	X	X	X	X
Replace and drain fuel filter, diesel (grade EN 590)			X		X	
Visually inspect wheel mounting and suspension springs front and rear, brake lines, brake pressure hoses, fuel lines and exhaust system			X		X	
Check exterior of body/underbody corrosion protection and note any damage in the Service and Warranty Booklet		X	X	X	X	X
⊕● Visually inspect front and rear wheel brakes <sup>4)</sup>			X		X	
Annual service if annual mileage exceeds 20. 000 km						
Engine, transmission (AT, MT), inspect air-conditioning compressor for leaks <sup>4)</sup>		X	X	X	X	X
Visually inspect folding covers on steering, tie rods and axle drive		X	X	X	X	X
Tie rod and supporting joint checking		X	X	X	X	X
⊕ Change brake and clutch fluid		Every 2 years				

<sup>4)</sup> In case of too high consumption / leakage, perform additional work with customer's agreement.

	by year <sup>3)</sup>	1	2	3	4	5
	km ( x 1000) <sup>3)</sup>	15	30	45	60	75
<b>Service operations</b>	<b>miles (x 1000)<sup>1)</sup></b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>
<p>Undo wheel fastening (take care if tyre pressure monitoring system is present) and tighten to torque: 150 Nm.</p> <p>The wheel nut taper is not allowed to be greased or oiled during assembly.</p> <p>Check tyre condition. Check/correct tyre pressure (including spare wheel)</p> <p>With tyre repair system - check completeness and expiry date of kit.</p>						
⊕ Annual service if annual mileage exceeds 20. 000 km						
Visually inspect first-aid kit, (presence in designated stowage compartment, completeness and expiry date), lashing eyes and warning triangle	Every 2 years					
Check/correct headlight adjustment (including auxiliary headlamps)			X		X	
Grease door hinges, door stop, lock cylinder, striker plate, bonnet lock, tailgate hinges			X		X	
Test drive, final inspection (check steering and ignition locks, instruments and indicator lights, entire brake system, steering, air conditioning, engine, body and running gear), reset service interval display		X	X	X	X	X

⊕: Additional operations.

●: Under extreme operating conditions and if required by country-specific conditions, the intervals are reduced.

## Additional servicing

### Additional operations ⊕

Additional operations are not required every service but can be performed in conjunction with a regular service. Time allowances for such work are not included in the scope of regular services and will be charged for additionally. It is more economic if these operations are performed as part of a scheduled service than having them performed separately.

### Extreme operating conditions ●

Extreme operating conditions are given when at least one of the following occurs frequently:

- Cold starts
- Stop and go
- Trailer towing
- Gradients and/or high altitudes
- Poor road surfaces
- Sand and dust
- Extreme temperature fluctuations

Police vehicles, taxis and driving school vehicles are also classified as operating under extreme conditions.

Under extreme operating conditions, it may be necessary to have certain scheduled service work done more frequently than the scheduled intervals.

Seek technical advice on the servicing requirements dependent on the specific operating conditions.

## 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 also its viscosity. Quality is more important than viscosity when selecting which engine oil to use.

#### Engine oil quality for European service schedules

GM-LL-A-025 = Petrol engines

GM-LL-B-025 = Diesel engines

GM = General Motors Europe

LL = Longlife

A or B = Engine oil quality  
specification

025 = Validity index

Engine oil meets classifications  
GM-LL-A-025 and GM-LL-B-025 and  
is therefore suitable for both petrol  
and diesel engines.

### **Engine oil quality for international service schedules**

ACEA-A3/B3 = Petrol engines

ACEA-A3/B4 = Diesel engines

These oil qualities must only be used  
with the international service  
schedule.

### **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 A3/B4 or A3/B3 grade may be  
used (only once between each oil

change). The viscosity should be of  
the correct rating.

Use of ACEA A1/B1 and A5/B5  
engine oil is expressly forbidden,  
since they can cause long-term  
engine damage under certain  
operating conditions.

### **Engine oil additives**

The use of engine oil additives could  
cause damage and invalidate the  
warranty.

### **Engine oil viscosity**

Use only engine oil viscosities SAE  
0W-30, 0W-40, 5W-30 or 5W-40.

The SAE viscosity rating defines the  
ability of an oil to flow. When cold, oil  
is more viscous than when hot.

Multigrade oil is indicated by two  
figures. The first figure, followed by  
a W, indicates low temperature  
viscosity and the second figure the  
high temperature viscosity.

### **Coolant and antifreeze**

Use only silicate-free long life coolant  
(LLC) antifreeze.

The system is factory filled with  
coolant designed for frost protection  
down to approx. -28 °C. This  
concentration should be maintained  
all year-round.

Coolant additives intended to give  
additional corrosion protection or seal  
against minor leaks can cause  
function problems. Liability for  
consequences resulting from the use  
of coolant additives will be rejected.

### **Brake and clutch fluid**

Only use DOT4 brake fluid.

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.

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### Vehicle identification

#### Vehicle Identification Number

The vehicle identification number is lasered on label material.



The vehicle identification number is visible through the windscreen.

### Identification plate



The identification plate 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	1.6	1.8	2.0 Turbo	2.8 V6 Turbo
Engine identifier code	A16XER	A18XER	A20NHT	A28NET
Number of cylinders	4	4	4	6
Piston displacement [cm <sup>3</sup> ]	1598	1796	1998	2792
Brake horse power [kW/bhp]	85	103	162	191
at rpm	6000	6300	5300	5500
Torque [Nm]	155	175	350	350
at rpm	4000	3800	2000-4000	1900-4500
Fuel type	Petrol	Petrol	Petrol	Petrol
Octane rating RON				
recommended	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>
possible	98	98	98	98
possible	91	91	91	91 <sup>1)</sup>
Oil consumption [l/1000 km]	0.6	0.6	0.6	0.6

<sup>1)</sup> Possible only if high engine load, full load or driving in mountainous terrain with a caravan/trailer or high payload is avoided.

Sales designation	2.0 CDTI	2.0 CDTI	2.0 CDTI
Engine code	A20DTC	A20DTJ	A20DTH
Number of cylinders	4	4	4
Piston displacement [cm <sup>3</sup> ]	1956	1956	1956
Brake horse power [kW/bhp]	81	96	118
at rpm	4000	4000	4000
Torque [Nm]	260	300	350
at rpm	1750-2500	1750-2500	1750-2500
Fuel type	Diesel	Diesel	Diesel
Oil consumption [l/1000 km]	0.6	0.6	0.6

## Performance

Engine	A16XER	A18XER	A20NHT	A20NHT - All-wheel drive	A28NET
Top speed <sup>2)</sup> [km/h] ([mph])					
Manual transmission	192 (120)	207 (129)	242 (150)	240 (149)	250 (155)
Automatic transmission	–	–	240 (149)	237 (147)	250 (155)

<sup>2)</sup> The maximum speed indicated is achievable at kerb weight (without driver) plus 200 kg payload. Optional equipment could reduce the specified maximum speed of the vehicle.



Engine	A20DTC	A20DTJ	A20DTH
Top speed <sup>2)</sup> [km/h] ([mph])			
Manual transmission	190 (118)	205 (127)	218 (135)
Automatic transmission	–	204 (127)	215 (134)

## Fuel consumption - CO<sub>2</sub>-emissions

Manual transmission / automatic transmission.

Engine	A16XER	A18XER	A20NHT	A20NHT All-wheel drive	A28NET
urban [l/100 km]	10.6/–	10.9/–	12.7/14.0	13.0/14.3	16.9/17.9
extra-urban [l/100 km]	5.9/–	6.0/–	6.7/7.0	7.0/7.2	7.4/7.9
total [l/100 km]	7.6/–	7.8/–	8.9/9.6	9.2/9.8	10.9/11.6
CO <sub>2</sub> [g/km]	179/–	184/–	209/225	215/229	256/272

<sup>2)</sup> The maximum speed indicated is achievable at kerb weight (without driver) plus 200 kg payload. Optional equipment could reduce the specified maximum speed of the vehicle.

Engine	A20DTC	A20DTJ	A20DTH
urban [l/100 km]	7.6/–	7.6/9.3	7.6/9.3
extra-urban [l/100 km]	4.8/–	4.8/5.3	4.8/5.3
total [l/100 km]	5.8/–	5.8/6.8	5.8/6.8
CO <sub>2</sub> [g/km]	154/–	154/179	154/179

## Vehicle weight

Kerb weight, basic model without any optional equipment

Insignia Saloon 4-door	Engine	Manual transmission	Automatic transmission
without/with air conditioning [kg]	A16XER, A18XER	1503/–	–
	A20DTC	–/1613	–
	A20DTH	1613/–	1613/–
	A20DTJ	–/1613	1613/–
	A20NHT	–/1613	–/1655
	A20NHT - All-wheel drive	–/1733	–/1770
	A28NET - All-wheel drive	–/1810	–/1835

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**Kerb weight, basic model without any optional equipment**

<b>Insignia Saloon 5-door</b>	<b>Engine</b>	<b>Manual transmission</b>	<b>Automatic transmission</b>
<b>without/with air conditioning</b> [kg]	A16XER, A18XER	1503/–	–
	A20DTC	–/1613	–
	A20DTH	1613/–	1655/–
	A20DTJ	–/1613	1655/–
	A20NHT	–/1645	–/1670
	A20NHT - All-wheel drive	–/1733	–/1785
	A28NET - All-wheel drive	–/1825	–/1843

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**Kerb weight, basic model with all optional equipment**

<b>Insignia Saloon 4-door</b>	<b>Engine</b>	<b>Manual transmission</b>	<b>Automatic transmission</b>
<b>without/with air conditioning</b> [kg]	A16XER	–/1672	–
	A18XER	–/1692	–
	A20DTC	–/1778	–
	A20DTH	–/1806	–/1829
	A20DTJ	–/1793	–/1819
	A20NHT	–/1789	–/1813
	A20NHT - All-wheel drive	–/1905	–/1929
	A28NET - All-wheel drive	–/1968	–/1992

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### Kerb weight, basic model with all optional equipment

Insignia Saloon 5-door	Engine	Manual transmission	Automatic transmission
without/with air conditioning [kg]	A16XER	–/1687	–
	A18XER	–/1707	–
	A20DTC	–/1793	–
	A20DTH	–/1821	–/1844
	A20DTJ	–/1808	–/1834
	A20NHT	–/1804	–/1828
	A20NHT - All-wheel drive	–/1920	–/1944
	A28NET - All-wheel drive	–/1983	–/2007

### Vehicle dimensions

	Saloon 4-door	Saloon 5-door
Length [mm]	4830	4830
Width without exterior mirrors [mm]	1856	1856
Width with two exterior mirrors [mm]	2084	2084
Height (without antenna) [mm]	1498	1498
Length of luggage compartment floor [mm]	1003	1003

	Saloon 4-door	Saloon 5-door
Load compartment width [mm]	1027	1027
Load compartment height [mm]	356	436
Wheelbase [mm]	2737	2737
Turning circle diameter [m]	11.4	11.4

Capacities

Engine oil

Engine	A16XER	A18XER	A20NHT	A28NET	A20DTC	A20DTJ	A20DTH
including Filter [l]	4.5	4.5	5.0	6.3	4.3	4.3	4.3
between MIN and MAX [l]	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Fuel tank

Petrol/diesel, nominal capacity [l]	70
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## Tyre pressures

### Tyre pressures for Insignia models with Front-wheel drive

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A16XER	205/60 R16 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	215/60 R16,						
	215/55 R17 <sup>3)</sup> ,						
	225/45 R18 <sup>3)4)</sup> ,						
	225/55 R17,						
	225/50 R17 <sup>3)4)</sup> ,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18						
	245/40 R19						
	245/35 R20 <sup>4)</sup>						

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A18XER	205/60 R16 <sup>3)</sup> ,	220/2.2	200/2.0	270/2.7	260/2.6	220/2.2	270/2.7
		(32)	(29)	(39)	(38)	(32)	(39)
	215/60 R16,						
	215/55 R17 <sup>3)</sup> ,						
	225/45 R18 <sup>3)4)</sup> ,						
	225/55 R17,						
	225/50 R17 <sup>3)4)</sup> ,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>4)</sup>						

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).



Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20NHT with manual transmission	225/50 R17 <sup>3)4)</sup> ,	240/2.4 (35)	220/2.2 (32)	–	–	250/2.5 (36)	300/3.0 (43)
	225/45 R18 <sup>3)4)</sup>						
	215/55 R17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18, 245/40 R19						
	245/35 R20 <sup>4)</sup>	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	250/2.5 (36)	300/3.0 (43)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20NHT with automatic transmission	225/50 R17 <sup>3)4)</sup> ,	240/2.4 (35)	220/2.2 (32)	–	–	250/2.5 (36)	300/3.0 (43)
	225/45 R18 <sup>3)4)</sup>						
	215/55 R17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18, 245/40 R19						
	245/35 R20 <sup>4)</sup>	240/2.4 (35)	220/2.2 (32)	270/2.7 (39)	260/2.6 (38)	250/2.5 (36)	300/3.0 (43)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20DTC	225/50 R17 <sup>3)4)</sup> ,	220/2.2 (32)	200/2.0 (29)	–	–	220/2.2 (32)	270/2.7 (39)
	225/45 R 18 <sup>3)4)</sup>						
	215/60 R16,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	215/55 R17 <sup>3)</sup> ,						
	225/55 R17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18						

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20DTJ with manual transmission	215/60 R16,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)
	225/45 R 18 <sup>3)4)</sup>						
	225/50 R17 <sup>3)4)</sup>						
	215/55 R17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>4)</sup>	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20DTJ with automatic transmission	215/60 R16,	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)
	225/50 R17 <sup>3)4)</sup> ,						
	225/45 R18 <sup>3)4)</sup>						
	215/55 R17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>4)</sup>	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20DTH with manual transmission	215/60 R16,	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	240/2.4 (35)	290/2.9 (42)
	225/50 R17 <sup>3)4)</sup>	240/2.4 (35)	220/2.2 (32)	–	–	240/2.4 (35)	290/2.9 (42)
	225/45 R 18 <sup>3)4)</sup>						
	215/55 R 17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R 17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>4)</sup>	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20DTH with automatic transmission	225/50 R17 <sup>3)4)</sup> ,	240/2.4 (35)	220/2.2 (32)	–	–	240/2.4 (35)	290/2.9 (42)
	225/45 R 18 <sup>3)4)</sup>						
	215/55 R 17 <sup>3)</sup> ,	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	220/2.2 (32)	270/2.7 (39)
	225/55 R 17,						
	235/45 R18 <sup>3)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>4)</sup>	220/2.2 (32)	200/2.0 (29)	270/2.7 (39)	260/2.6 (38)	230/2.3 (33)	280/2.8 (41)
all	Temporary spare wheel	420/4.2 (61)	420/4.2 (61)	–	–	420/4.2 (61)	420/4.2 (61)

<sup>3)</sup> Only permitted as winter tyres.

<sup>4)</sup> Reinforced variant (XL).

## Tyre pressures for Insignia models with All-wheel drive

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] [psi]	[kPa/bar] [psi]	[kPa/bar] [psi]	[kPa/bar] [psi]	[kPa/bar] [psi]	[kPa/bar] [psi]
A20NHT with manual transmission	225/50 R17 <sup>5)</sup> ,	250/2.5 (36)	230/2.3 (33)	–	–	250/2.5 (36)	300/3.0 (43)
	225/45 R 18 <sup>5)</sup>						
	215/55 R17 <sup>5)</sup> ,	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	240/2.4 (35)	290/2.9 (42)
	225/55 R17,						
	225/45 R 18 <sup>5)</sup> ,						
	235/45 R18 <sup>5)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>6)</sup>	240/2.4 (35)	220/2.2 (32)	270/2.7 (39)	260/2.6 (38)	250/2.5 (36)	300/3.0 (43)

<sup>5)</sup> Only permitted as winter tyres

<sup>6)</sup> Reinforced variant (XL).



Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A20NHT with automatic transmission	225/50 R17 <sup>5)6)</sup> ,	260/2.6 (38)	240/2.4 (35)	–	–	260/2.6 (38)	310/3.1 (45)
	225/45 R 18 <sup>5)6)</sup>						
	215/55 R17 <sup>5)</sup> ,	230/2.3 (33)	210/2.1 (30)	270/2.7 (39)	260/2.6 (38)	240/2.4 (35)	290/2.9 (42)
	225/55 R17, 235/45 R18 <sup>5)</sup> , 245/45 R18, 245/40 R19						
	245/35 R20 <sup>6)</sup>	250/2.5 (36)	230/2.3 (33)	270/2.7 (39)	260/2.6 (38)	250/2.5 (36)	300/3.0 (43)

<sup>5)</sup> Only permitted as winter tyres

<sup>6)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A28NET with manual transmission	225/50 R17 <sup>5)6)</sup> ,	270/2.7 (39)	250/2.5 (36)	–	–	270/2.7 (39)	320/3.2 (46)
	225/45 R18 <sup>5)6)</sup>						
	215/55 R17 <sup>5)</sup> ,	260/2.6 (38)	240/2.4 (35)	–	–	270/2.7 (39)	320/3.2 (46)
	225/55 R17, 235/45 R18 <sup>5)</sup> , 245/45 R18, 245/40 R19						
	245/35 R20 <sup>6)</sup>	270/2.7 (39)	250/2.5 (36)	–	–	280/2.8 (41)	330/3.3 (48)

<sup>5)</sup> Only permitted as winter tyres

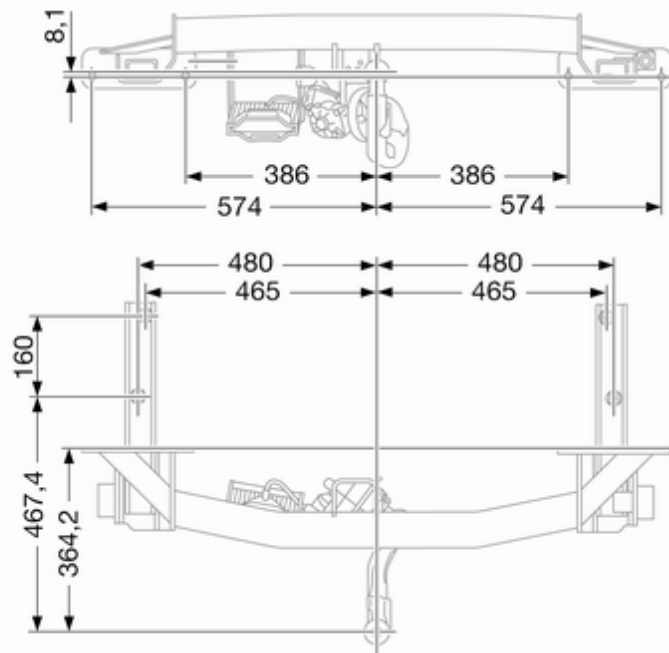
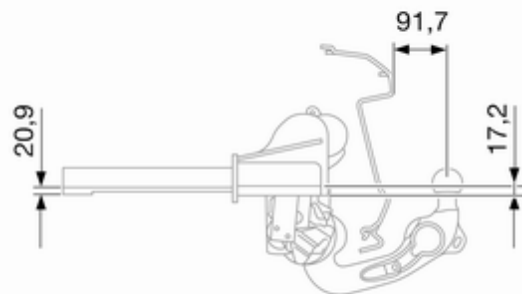
<sup>6)</sup> Reinforced variant (XL).

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front	rear	front	rear	front	rear
		[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])	[kPa/bar] ([psi])
A28NET with automatic transmission	225/50 R17 <sup>5)6)</sup> ,	270/2.7 (39)	250/2.5 (36)	–	–	280/2.8 (41)	330/3.3 (48)
	225/45 R 18 <sup>5)6)</sup>						
	215/55 R17 <sup>5)</sup> ,	270/2.7 (39)	250/2.5 (36)	–	–	280/2.8 (41)	330/3.3 (48)
	225/55 R17,						
	235/45 R18 <sup>5)</sup> ,						
	245/45 R18,						
	245/40 R19						
	245/35 R20 <sup>6)</sup>	270/2.7 (39)	250/2.5 (36)	–	–	280/2.8 (41)	330/3.3 (48)
all	Temporary spare wheel	420/4.2 (61)	420/4.2 (61)	–	–	420/4.2 (61)	420/4.2 (61)

<sup>5)</sup> Only permitted as winter tyres

<sup>6)</sup> Reinforced variant (XL).

# Towing hitch installation dimensions





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