



*XC 90*

OWNER'S MANUAL



# VÄLKOMMEN!

We hope you will enjoy many years of driving pleasure in your Volvo. The car has been designed for the safety and comfort of you and your passengers. Volvo is one of the world's safest passenger vehicles. Your Volvo is also designed to meet applicable safety and environmental requirements.

In order to increase your enjoyment of your Volvo, we recommend that you read the instructions and maintenance information in this owner's manual. The owner's manual is also available as a mobile app (Volvo Manual) and on the Volvo Cars support site ([support.volvocars.com](https://support.volvocars.com)).

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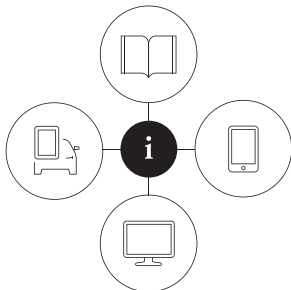
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# INTRODUCTION

## This is how you find owner's information

Owner's information is available in several different product formats, both digital and printed. The owner's manual is available in the car's centre display, as a mobile app and on the Volvo Cars support site. There is a Quick Guide and a supplement to the owner's manual available in the glovebox, with specifications and fuse information, amongst other things. A printed owner's manual can be ordered.



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### The car's centre display<sup>1</sup>

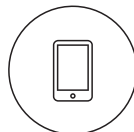


In the centre display, drag down the top view and tap on

**Owner's manual.** Available here are options for visual navigation with exterior and interior images of the car. The information is searchable and is also

divided into categories.

### Mobile app



In App Store or Google Play, search for "Volvo Manual", download the app to your smartphone or tablet and select the car. Available in the app are video tutorials and options for visual navigation with exterior and interior images of the car. It is easy to navigate between the different sections in the owner's manual and the content is searchable.

### Volvo Cars support site



Go to [support.volvocars.com](http://support.volvocars.com) and select your country. Here you can find owner's manuals, both online and in PDF format. On the Volvo Cars support site there are also video tutorials and further information and

help regarding your Volvo and your car ownership. The page is available for most markets.

### Printed information



There is a supplement to the owner's manual<sup>1</sup> in the glovebox that contains information on fuses and specifications, as well as a summary of important and practical information.

There is also a Quick Guide available in printed format that helps you to get started with the most commonly used functions in the car.

Depending on equipment level selected, market, etc. additional owner's information may also be available in printed format in the car.

A printed owner's manual and associated supplement can be ordered. Contact a Volvo dealer to order.

### Changing the language in the car's centre display

Changing the language in the centre display may mean that some owner's information does not correspond to national or local laws and regulations. Don't change to a language that's difficult to understand, it may then be difficult to find your way back in the structure on the screen.

<sup>1</sup> A complete printed manual is included with the car for markets without owner's manual in the centre display.



**! IMPORTANT**

The driver is always responsible that the vehicle is driven safely in traffic and that applicable laws and regulations are followed. It is also important that the car is maintained and handled in accordance with Volvo's recommendations in the owner's information.

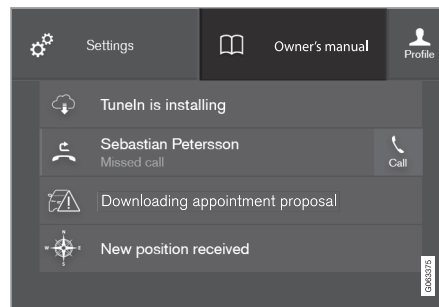
If there should be a difference between the information in the centre display and the printed information then it is always the printed information that applies.

**Related information**

- Digital owner's manual in the car (p. 15)
- Owner's Manual in mobile devices (p. 18)
- Volvo Cars support site (p. 19)
- Reading the owner's manual (p. 19)

**Digital owner's manual in the car**

A digital<sup>2</sup> version of the owner's manual is available in the car's centre display.



The digital owner's manual is accessed from the top view.

To open the digital owner's manual - drag down the top view in the centre display and tap on **Owner's manual**.

**i NOTE**

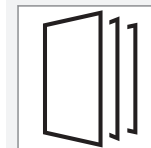
The digital owner's manual is not available while driving.

There is a range of different options for finding information in the digital owner's manual. The options can be reached from the start page of

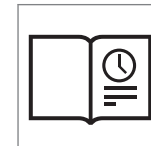
the owner's manual. One way is from the top menu, with a tap on ☰.

**Symbols and their meaning in the owner's manual menu**

Leads to the start page of the Owner's Manual.






Articles grouped by category. The same article may appear in several categories.


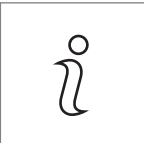


Leads to a Quick Guide page with links for a selection of articles that can be particularly useful to read. Provides answers to common questions about the car.

<sup>2</sup> Applies for most markets.



Symbols and their meaning in the owner's manual menu	
	Exterior and interior overview images of the car. Different parts are designated with hotspots that lead to articles about those parts of the car.
	
	All articles that have been favoured are compiled here.

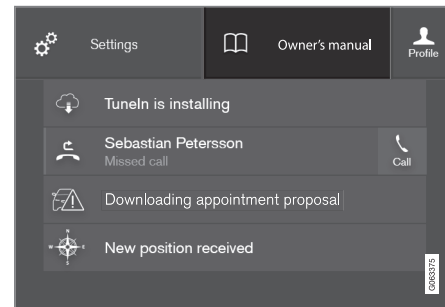
Symbols and their meaning in the owner's manual menu	
	Leads to short video tutorials for different functions in the car.
	Indicates what version of the Owner's Manual is available in the car and provides other useful information.

**Related information**

- Navigating in the digital owner's manual (p. 16)

**Navigating in the digital owner's manual**


The digital owner's manual can be accessed from the centre display in the car. The content is searchable and it is easy to navigate between different sections.



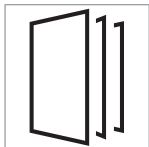
The digital owner's manual is accessed from the top view.

**Open the digital owner's manual**





- To open the digital owner's manual - drag down the top view in the centre display and tap on **Owner's manual**.

There is a range of different options for finding information in the digital owner's manual. To access the owner's manual menu - press  in the upper bar of the owner's manual.

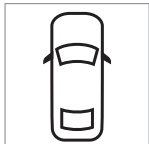
## Searching using categories



The articles in the owner's manual are structured into main categories and subcategories. The same article can be found in several appropriate categories in order to be found more easily.


1. Press  and then select **Categories**.
  - > The main categories are shown in a list.
2. Tap on a main category ().
  - > A list of subcategories () and articles () is shown.
3. Tap on an article to open it. To go back, press the back arrow.

## Hotspots for exterior and interior

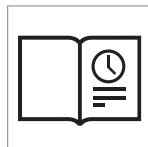


Exterior and interior overview images of the car. Different parts are designated with hotspots that lead to articles about those parts of the car.



1. Press  and then select **Exterior/Interior**.
  - > Exterior/interior images are shown with so-called hotspots in place. The hotspot leads to articles about the corresponding part of the car. Swipe horizontally over the screen to browse among the images.
2. Tap on a hotspot.
  - > The title of the article about the area is shown.
3. Tap on the title to open the article. To go back, press the back arrow.

## Learn about the car's most common functions with the Quick Guide



Leads to a page with links for a selection of articles that can be particularly useful to read in order to get to know the most common functions of the car. The articles can also be accessed via categories, but


are collected here for quick access. Tap on an article in order to read it in its entirety.

## Favourites



Located here are the articles that have been saved as favourites. Tap on an article in order to read it in its entirety.

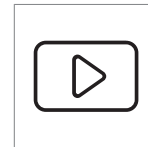
## Saving/deleting articles as favourites

Save an article as favourite by pressing  at the top right when an article is open. When an article has been saved as a favourite the star is filled in:



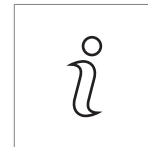
To remove an article as a favourite, press the star again in the current article.

## Video



Leads to short video tutorials for different functions in the car.

## Information




Tap on the symbol to obtain information about which version of the owner's manual is available in the car as well as other useful information.

« **Start page**



Tap on the symbol to go back to the start page in the owner's manual.

**Using the search function**

1. Tap on  in the top menu of the owner's manual. A keyboard appears in the lower part of the screen.
2. Type in a keyword, such as "seatbelt".
  - > Suggestions for articles and categories are shown while letters are being entered.
3. Tap on the article/category to access it.

**Related information**

- Digital owner's manual in the car (p. 15)
- Using the keyboard in the centre display (p. 49)

**Owner's Manual in mobile devices**

The owner's manual is available as a mobile app<sup>3</sup> from both the App Store and Google Play. The app is adapted for smartphones and tablets.

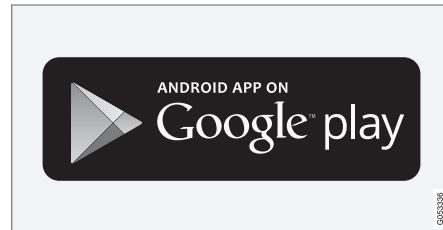
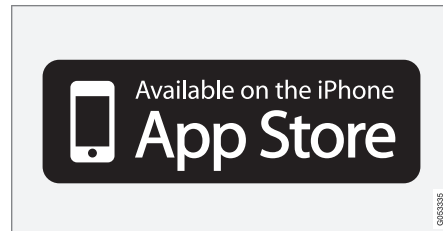


The owner's manual can be downloaded as a mobile app from the App Store or Google Play. The QR code provided here takes you directly to the app. Alternatively, you can search for "Volvo manual" in

the App Store or Google Play.

The app contains a video along with exterior and interior images where different parts of the car are highlighted with so-called hotspots, which lead to articles about the area in question. It is easy to navigate between the different sections

in the owner's manual and the content is searchable.



The mobile app is available from both the App Store and Google Play.

**Related information**

- Reading the owner's manual (p. 19)
- Volvo Cars support site (p. 19)

<sup>3</sup> For certain mobile devices.

## Volvo Cars support site

More information on your car is available on the Volvo Cars website and support site.

### Support on the Internet

Go to support.volvocars.com to visit the site. The support site is available for most markets.

It contains support for functions such as web-based services and functions, Volvo On Call\*, the navigation system\* and apps. Videos and step-by-step instructions explain different procedures, e.g. how to connect the car to the Internet via a mobile phone.

### Downloadable information

#### Maps

For cars equipped with Sensus Navigation, there is the facility to download maps from the support page.

#### Owner's manuals as PDF

Owner's manuals are available for download in PDF format. Select car model and model year to download the manual as required.

#### Contact

The support site contains contact details to customer support and your nearest Volvo dealer.

#### Log in to Volvo Cars website

Create a personal Volvo ID and log in to www.volvocars.com. When you have logged in it is possible to get an overview of service, agree-

ments and warranties. Here there is also information about accessories and software adapted for your car model.

### Related information

- Volvo ID (p. 23)

## Reading the owner's manual

A good way of getting to know your new car is to read the owner's manual, ideally before your first journey.

Reading the owner's manual is a good way to become familiar with new functions, get advice on how best to handle the car in different situations and learn how to make the best use of all the car's features. Please pay attention to the safety instructions contained in the owner's manual.

Development work is constantly underway in order to improve our product. Modifications may mean that information, descriptions and illustrations in the owner's manual differ from the equipment in the car. We reserve the right to make modifications without prior notice.

Do not remove this manual from the car - if problems should arise then the necessary information about where and how to seek professional help will be missing.

© Volvo Car Corporation

### Options/accessories

In addition to standard equipment, the owner's manual also describes options (factory fitted equipment) and certain accessories (retrofitted extra equipment).

All types of option/accessory are marked with an asterisk: \*.



## INTRODUCTION

- ◀◀ The equipment described in the owner's manual is not available in all cars - they have different equipment depending on adaptations for the needs of different markets and national or local laws and regulations.

In the event of uncertainty over what is standard or an option/accessory, contact a Volvo dealer.

### Special texts

#### **WARNING**

Warning texts appear if there is a risk of injury.

#### **IMPORTANT**

"Important" texts appear if there is a risk of damage.

#### **NOTE**

NOTE texts give advice or tips that facilitate the use of e.g. features and functions.

### Footnote

The owner's manual contains information in certain locations in the form of a footnote at the bottom of the page or at the end of a table. This information is an addition to the text that it refers to via a number. If the footnote refers to text in a table then letters are used instead of numbers for referral.

### Message texts

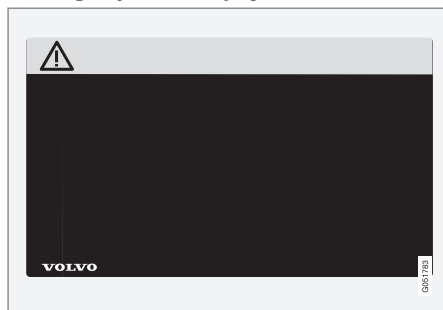
There are displays in the car that show menu and message texts. In the owner's manual the appearance of these texts differs from the normal text. Examples of menu texts and message texts:

**Phone, New message.**

### Decals

The car contains different types of decal which are designed to convey important information in a simple and clear manner. The decals in the car have the following descending degree of importance for the warning/information.

### Warning of personal injury



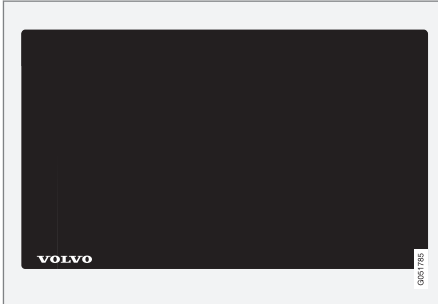
Black ISO symbols on yellow warning field, white text/image on black message field. Used to indicate the presence of danger which, if the warning is ignored, may result in serious personal injury or fatality.

### Risk of property damage



White ISO symbols and white text/image on black or blue warning field and message field. Used to indicate the presence of danger which, if the warning is ignored, may result in damage to property.

## Information



White ISO symbols and white text/image on black message field.

### **i** NOTE

It is not intended that the decals illustrated in the owner's manual should be exact replicas of those in the car. They are included to show their approximate appearance and location in the car. The information that applies to your particular car is available on the respective decals for your car.

## Procedure lists

Procedures where action must be taken in a certain sequence are numbered in the owner's manual:

- 1 When there is a series of illustrations for step-by-step instructions each step is num-

bered in the same way as the corresponding illustration.

- A** Lists of letters appear adjacent to the series of illustrations where the order of the instructions is not significant.
- 1** Arrows appear numbered and unnumbered and are used to illustrate a movement.
- A** Arrows with letters are used to clarify a movement when the relative order is of no relevance.

If there is no series of illustrations for step-by-step instructions then the different steps are numbered with normal numbers.

## Position lists

- 1** Red circles containing a number are used in overview images where different components are pointed out. The number recurs in the position list featured in connection with the illustration that describes the item.

## Bulleted lists

A bulleted list is used when there is a list of points in the owner's manual.

Example:

- Coolant
- Engine oil

## Related information

Related information refers to other articles containing closely associated information.

## Images

Illustrations used in the owner's manual are sometimes schematic and are intended to provide an overall picture or example of a certain function. Illustrations may deviate from the car's appearance depending on equipment level and market.

## To be continued

▶▶ This symbol is located furthest down to the right when an article continues on the following page.

## Continued from previous page

◀◀ This symbol is located furthest up to the left when an article continues from the previous page.

## Related information

- Digital owner's manual in the car (p. 15)
- Owner's Manual in mobile devices (p. 18)
- Volvo Cars support site (p. 19)

### **Recording data**

As part of Volvo's safety and quality assurance, certain information about the vehicle's operation, functionality and incidents are recorded in the car.

This vehicle is equipped with an "Event Data Recorder" (EDR). Its primary purpose is to register and record data related to traffic accidents or collision-like situations, such as times when the airbag deploys or the vehicle strikes an obstacle in the road. The data is recorded in order to increase understanding of how vehicle systems work in these types of situations. The EDR is designed to record data related to vehicle dynamics and safety systems for a short time, usually 30 seconds or less.

The EDR in this vehicle is designed to record data related to the following in the event of traffic accidents or collision-like situations:

- How the various systems in the car worked
- Whether the driver and passenger seatbelts were fastened/tensioned
- The driver's use of the accelerator or brake pedal
- The travel speed of the vehicle

This information can help us better understand the circumstances in which traffic accidents, injuries and damage occur. The EDR only records data when a non-trivial collision situation occurs. The EDR does not record any data during normal

driving conditions. Similarly, the system never registers who is driving the vehicle or the geographic location of the accident or near-miss situation. However, other parties, such as the police, could use the recorded data in combination with the type of personally identifiable information routinely collected after a traffic accident. Special equipment and access to either the vehicle or the EDR is required to be able to interpret the registered data.

In addition to the EDR, the car is equipped with a number of computers designed to continually check and monitor the function of the car. They can record data during normal driving conditions, but in particular register faults affecting the vehicle's operation and functionality, or upon activation of the vehicle's driver support function (e.g. City Safety and the auto brake function).

Some of the recorded data is required to enable service and maintenance technicians to diagnose and remedy any faults that occurred in the vehicle. The registered information is also needed to enable Volvo to satisfy legal requirements laid out in laws and by government authorities. Information registered in the vehicle is stored in its computer until the vehicle is serviced or repaired.

In addition to the above, the registered information can be used in aggregate form for research and product development with the aim of continuously improving the safety and quality of Volvo cars.

Volvo will not contribute to the above-described information being disclosed to third parties without the vehicle owner's consent. To comply with national legislation and regulations, Volvo may be forced to disclose information of this nature to the police or other authorities who may assert a legal right to access such. Special technical equipment which Volvo and workshops that have entered into agreements with Volvo have access to is required to be able to read and interpret the recorded data. Volvo is responsible that the information, which is transferred to Volvo during servicing and maintenance, is securely stored and managed and that its management complies with relevant legal requirements. For further information - contact a Volvo dealer.



## Important information on accessories, extra equipment and diagnostic socket

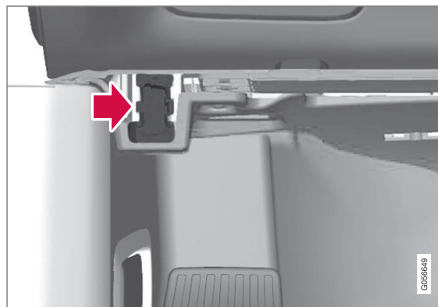
Incorrect connection and installation of accessories, extra equipment or software/diagnostic tools may have a negative effect on the car's electronic system.

Certain accessories only function when associated software is installed in the car's computer system. Volvo therefore recommends always making contact with an authorised Volvo workshop before the installation of accessories or extra equipment that are connected to or affect the electrical system.

## Connection of equipment to the car's diagnostic socket

### WARNING

Volvo Cars accepts no liability for the consequences if unauthorised equipment is connected to the On-board Diagnostic socket (OBDII). This socket should only be used by trained and qualified Volvo service technicians.



Data link connector OBDII is under the instrument panel on the driver's side

## Volvo ID

Volvo ID provides access to a wide range of personalized Volvo services<sup>4</sup> online.

It is possible to create a Volvo ID from the car, volvocars.com or Volvo On Call app<sup>5</sup>. Certain functions and services require that the car is registered to a personal Volvo ID. Registering the Volvo ID to the car makes a wide range of Volvo services available directly from the car.

Examples of services:

- Volvo On Call\* - Volvo ID is used when logging in to the Volvo On Call app.
- Send to Car - Makes it possible to send an address from an Internet map service directly to the car.
- Book Service and Repair - Register your preferred workshop/dealer at volvocars.com to be able to book service directly from the car.

## Creating a Volvo ID

It is possible to create a Volvo ID in different ways. If the Volvo ID is created at volvocars.com or with Volvo On Call app, the Volvo ID must also be registered to the car to enable use of the various Volvo ID services.

<sup>4</sup> The services available may vary over time and vary depending on equipment level and market.

<sup>5</sup> If you have Volvo On Call\*.

### ◀◀ **With the Volvo ID app**

1. Download the Volvo ID app from **Download Centre** in the centre display's app view.
2. Start the app and register a personal email address.
3. Follow the instructions that are automatically sent to the specified email address.
  - > A Volvo ID has now been created and automatically registered to the car. Volvo ID services can now be used.

### **On Volvo Cars website**

1. Go into [www.volvocars.com](http://www.volvocars.com) and log in<sup>6</sup> using the icon at the top right. Select Create Volvo ID.
2. Enter a personal email address.
3. Follow the instructions that are automatically sent to the specified email address.
  - > A Volvo ID has now been created. Read below to learn how to register the ID to the car.

### **With Volvo On Call mobile app<sup>7</sup>**

1. Download the latest version of the Volvo On Call app from a smartphone, via e.g. App Store, Windows Phone or Google Play.
2. Choose to create a Volvo ID from the app's start page and enter a personal email address.

<sup>6</sup> Available in certain markets.

<sup>7</sup> If you have Volvo On Call\*.

3. Follow the instructions that are automatically sent to the specified email address.
  - > A Volvo ID has now been created. Read below to learn how to register the ID to the car.

### **Registering your Volvo ID to the car**

If you created your Volvo ID via the web or the Volvo On Call app, register it to your car as follows:

1. If not done already, download the Volvo ID app from **Download Centre** in the app view.

#### **NOTE**

To download apps, the car must be connected to the Internet.

2. Start the app and enter your Volvo ID/your email address.
3. Follow the instructions that are automatically sent to the email address linked to your Volvo ID.
  - > Your Volvo ID is now registered to the car. Volvo ID services can now be used.

### **Advantages of Volvo ID**

- One user name and one password to access online services, i.e. only one username and one password to remember.
- If the username/password for a service (e.g. Volvo On Call) is changed, then it is also changed automatically for other services.

### **Related information**

- Downloading, updating and uninstalling apps (p. 493)
- Connecting the car (p. 488)

## Drive-E - cleaner driving pleasure

Volvo Car Corporation is constantly working on the development of safer and more efficient

products and solutions in order to reduce the negative impact on the environment.



Environmental care is one of Volvo Cars' core values and influences all operations. The environmental work is based on the whole life cycle of the car and takes into account the environmental impact it has, from design to scrapping and recycling. Volvo Cars' basic principle is that every new product developed must have less impact on the environment than the product it replaces.

Volvo's environmental management work has resulted in the development of more effective and less polluting drivelines Drive-E. Personal environment is also important to Volvo - the air

inside a Volvo is, for example, cleaner than the air outside thanks to the climate control system.

Your Volvo complies with stringent international environmental standards. All Volvo's manufacturing units must be ISO 14001 certified, and this supports a systematic approach to the operation's environmental issues, which leads to continuous improvement with reduced environmental impact. Holding the ISO certificate also means that environmental laws and regulations in force are complied with. Volvo also requires that its partners must also meet these requirements.

## Fuel consumption

Since a large part of a car's total environmental impact stems from its use, the emphasis of Volvo Cars' environmental work is on reducing fuel consumption, carbon dioxide emissions and other air pollutants. Volvo cars have competitive fuel consumption in each of their respective classes. Lower fuel consumption generally results in lower emission of the greenhouse gas, carbon dioxide.

### ◀ **Contributing to a better environment**

An energy-efficient and fuel-efficient car not only contributes to a reduced impact on the environment, but also means reduced costs for the owner of the car. As the driver, it is easy to reduce fuel consumption and thereby save money and contribute to a better environment - here is some advice:

- Plan for an effective average speed. Speeds above approx. 80 km/h (approx. 50 mph) and below 50 km/h (approx. 30 mph) lead to increased energy consumption.
- Follow the Service and Warranty Booklet's recommended intervals for service and maintenance of the car.
- Avoid letting the engine idle - switch off the engine when stationary for longer periods. Pay attention to local regulations.
- Plan the journey - a lot of unnecessary stops and uneven speed contribute to increased fuel consumption.
- Use preconditioning\* before starting in cold conditions - it improves starting capacity and reduces wear in cold weather. The engine reaches normal operating temperature more quickly, which decreases consumption and reduces emissions.

Also remember to always dispose of environmentally hazardous waste, such as batteries and oil, in an environmentally safe manner. Consult a workshop in the event of uncertainty about how this

type of waste should be discarded - an authorised Volvo workshop is recommended.

### **Efficient emission control**

Your Volvo is manufactured following the concept "Clean inside and out" - a concept that encompasses a clean interior environment as well as highly efficient emission control. In many cases the exhaust emissions are well below the applicable standards.

### **Clean air in the passenger compartment**

A passenger compartment filter prevents dust and pollen from entering the passenger compartment via the air intake.

The Interior Air Quality System (IAQS)\* ensures that the incoming air is cleaner than the air in the traffic outside.

The system cleans the air in the passenger compartment from contaminants such as particles, hydrocarbons, nitrous oxides and ground-level ozone. If the outside air is contaminated then the air intake is closed and the air is recirculated. Such a situation may arise in heavy traffic, queues and tunnels for example.

IAQS is a part of the Clean Zone Interior Package (CZIP)\*, which also includes a function that allows the fan to start when the car is unlocked with the remote control key.

### **Interior**

The material used in the interior of a Volvo is carefully selected and has been tested in order to be pleasant and comfortable. Some of the details are hand-made, such as the seams of the steering wheel that are sewn by hand. The interior is monitored in order not to emit strong odours or substances that cause discomfort in the event of e.g. high heat and bright light.

### **Volvo workshops and the environment**

Regular maintenance creates the conditions for a long service life and low fuel consumption for your car. In this way you also contribute to a cleaner environment. When Volvo's workshops are entrusted with the service and maintenance of your car it becomes part of Volvo's system. Volvo makes clear demands regarding the way in which workshop premises shall be designed in order to prevent spills and discharges into the environment. The workshop staff have the knowledge and the tools required to guarantee good environmental care.

### **Recycling**

Since Volvo works from a life cycle perspective, it is also important that the car is recycled in an environmentally sound manner. Almost all of the car can be recycled. The last owner of the car is therefore requested to contact a dealer for referral to a certified/approved recycling facility.

**Related information**

- Drive modes\* (p. 422)
- The owner's manual and the environment (p. 32)
- Economical driving (p. 448)
- Fuel consumption and CO2 emissions (p. 594)
- Air quality (p. 184)

### IntelliSafe-driver support

IntelliSafe is the Volvo Cars concept concerning car safety. It comprises a number of systems, both standard and optional, that contribute to making a car journey safe, to the prevention of injuries and to the protection of passengers and other road users.

#### Support

There are systems incorporated in IntelliSafe that help the driver to drive the car in a safe manner. The driver support functions incorporated in the car include e.g. adaptive cruise control\*, which ensures that a constant distance is held between the car and the vehicle in front.

Pilot Assist\* helps the driver to keep the car between the lane's edge markings, combined with maintaining a preset time interval to the vehicle ahead.

Park Assist Pilot\* helps the driver park the car by sensing the area around it.

Other examples of systems that help the driver are the Active main beam, Cross Traffic Alert (CTA)\* and Blind Spot Information (BLIS)\* systems.

#### Prevention

An example of a function that helps to prevent accidents is City Safety. The function warns the driver of risks of collision with another vehicle,

pedestrians, cyclists or larger animals. If the driver does not react to the warning and the risk of collision is imminent then City Safety can automatically brake the car.

Lane Keeping Aid (LKA)\* is another example of a function that helps to prevent accidents by warning the driver and giving corrective steering interventions if the car is about to cross a lane side line.

Also available is the steering assistance function, whose purpose is to reduce the risk of the car unintentionally leaving the road and actively steer the car back onto the road.

#### Protection

To protect the driver and passengers, the car is equipped with seatbelt tensioners which can tension the seatbelts in critical situations and in collisions. It also has airbags and inflatable curtains, as well as Whiplash Protection System (WHIPS) which protects against whiplash injuries.

#### Related information

- Adaptive cruise control\* (p. 296)
- Park Assist Pilot\* (p. 398)
- Activating/deactivating main beam (p. 141)
- Activate/deactivate Cross Traffic Alert\* (p. 358)
- BLIS\* (p. 354)

- City Safety (p. 342)
- Lane Keeping Aid (p. 370)
- Stability system RSC<sup>1</sup> (p. 276)
- Seatbelt (p. 58)
- Safety (p. 56)
- Airbags (p. 63)
- Pilot Assist\* (p. 313)
- Steering assistance upon risk of lane departure (p. 378)
- Whiplash Protection System (p. 57)

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<sup>1</sup> Roll Stability Control

## **Sensus - online connectivity and entertainment**

Sensus makes it possible to surf the Internet, use different types of apps and make the car a Wi-Fi hotspot.

### **This is Sensus**



Sensus offers an intelligent interface and online connectivity with the digital world. An intuitive navigation structure makes it possible to receive relevant support, information and entertainment when it is necessary, without distracting the driver.

Sensus covers all solutions in the car that are connected with entertainment, online connectivity, navigation\* and the user interface between driver and car. It is Sensus that makes communication possible between you, the car and the outside world.

## **Information when it is needed, where it is needed**

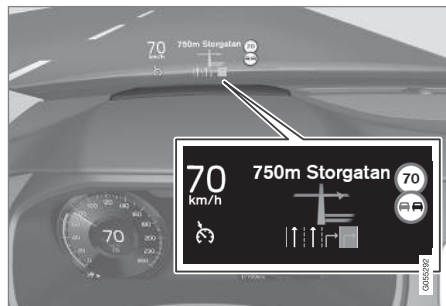
The different displays in the car provide information at the right time. The information is shown in different locations based on how it should be prioritised by the driver.





Different types of information are shown in different displays depending on how the information should be prioritised.

### Head-up display\*



The head-up display shows selected information that the driver should deal with as soon as possible. Such information includes traffic warnings,

speed information and navigation\* information. Road Sign Information and incoming phone calls are also shown in the head-up display. The display is operated via the right-hand steering wheel keypad and via the centre display.

### Driver display



12-inch driver display.





8-inch driver display.

The driver display shows information on speed and e.g. incoming calls or song tracks being played. The display is operated via the two steering wheel keypads.

### Centre display



Many of the main functions of the car are controlled from the centre display, a touch screen which reacts to touch. The number of physical buttons and controls in the car is therefore minimal. The screen can even be operated while wearing gloves.

From here, for example, you can control the climate control system, the entertainment system and seat position\*. The information that is shown in the centre display can be acted on by the driver or someone else in the car when the opportunity arises.

### Voice recognition system



The voice recognition system can be used without the driver needing to take his/her hands off the steering wheel. The system can understand natural speech. Use voice recognition to, for example, play back a song, call someone, increase the temperature or read out a text message.

For more information about all functions/systems, see the relevant section in the owner's manual or its supplement.

### Related information

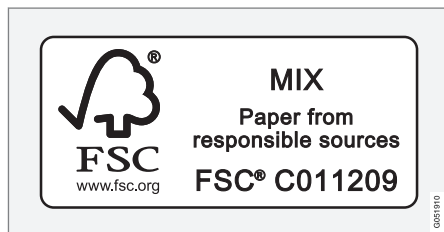
- Operating the centre display (p. 36)
- Navigating in the centre display's views (p. 40)
- Head-up display\* (p. 114)

- Driver display (p. 92)
- Voice recognition (p. 117)
- Online car\* (p. 488)
- Audio and media (p. 460)

## The owner's manual and the environment

The Owner's Manual is printed on paper originating from controlled forests.

The Forest Stewardship Council (FSC)<sup>®</sup> symbol shows that the paper pulp in a printed owner's manual comes from FSC<sup>®</sup>-certified forests or other controlled sources.



### Related information

- Drive-E - cleaner driving pleasure (p. 25)

## Windows, glass and mirrors

The car contains controls for windows, glass and mirrors. Some of the windows in the car are reinforced with lamination, which makes the passenger compartment more soundproof, amongst other things.

### Laminated glass

The windscreen and panorama\* roof have laminated glass. The glass is reinforced, which provides better protection against break-ins and improved sound insulation in the passenger compartment. Laminated glass is available as an option for certain other glass surfaces.



The symbol is shown on the windows where the glass is laminated<sup>9</sup>.

### Related information

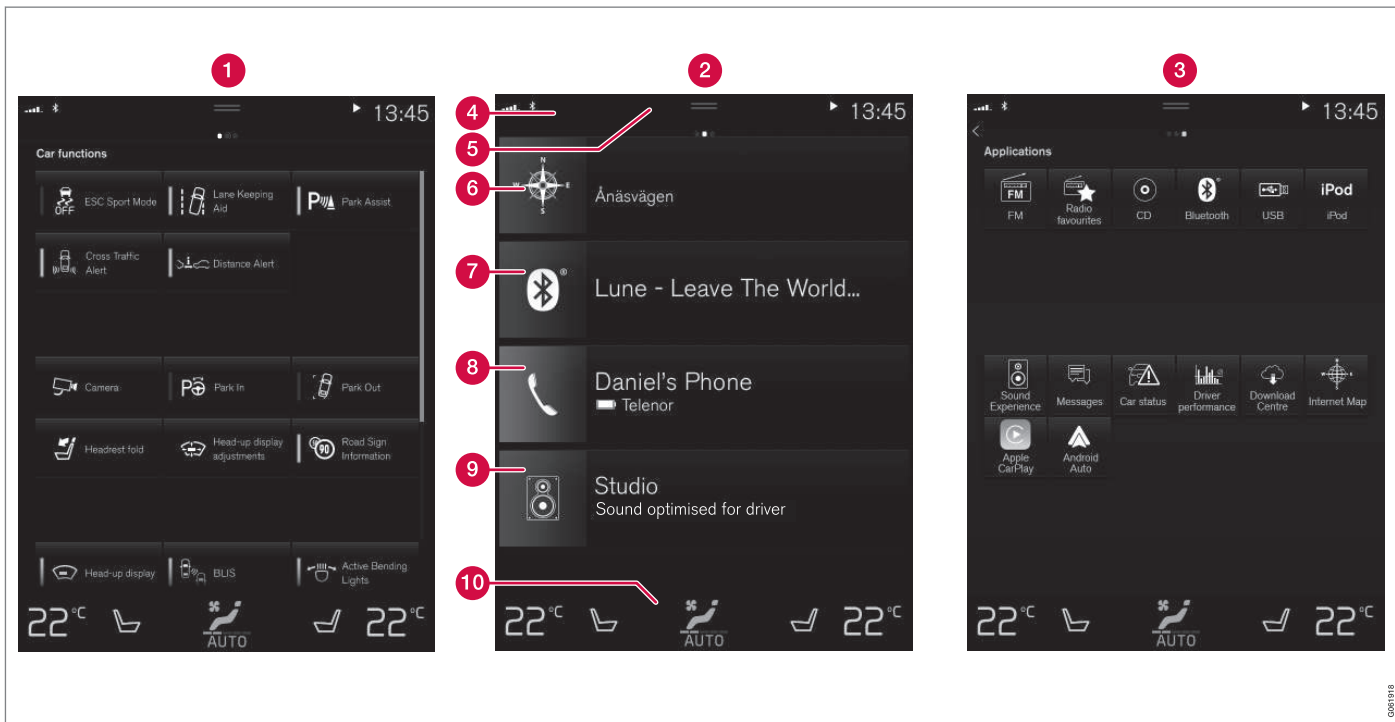
- Panorama roof\* (p. 161)
- Power windows (p. 154)
- Activating/deactivating defrost of windows and door mirrors (p. 195)
- Using the sun blind\* (p. 156)
- Interior rearview mirror (p. 158)
- Adjusting the door mirrors (p. 156)
- Head-up display\* (p. 114)

- Using windscreen wipers (p. 151)
- Windscreen and headlamp washers (p. 153)

<sup>9</sup> Does not apply to the windscreen or panorama roof\* which are always laminated and thus do not have this symbol.

## Overview of the centre display

Many of the car's functions are controlled from the centre display. Presented here is the centre display and its options.



Three of the centre display's basic views. Swipe right or left to access the function or app view respectively<sup>10</sup>.

**1** Function view - car functions that are activated/deactivated with a press. Certain func-

tions are also so-called trigger functions, which means they open a window with set-

ting options. Examples of such are **Camera** and parking functions. Settings for the head-

<sup>10</sup> The views are reversed for right-hand drive cars.

up display\* are also made from the function view, but adjustments are made using the steering wheel's right-hand keypad.

- 2 Home view - the first view that is shown when the screen is started.
- 3 Application view (app view) - apps that have been downloaded (third-party apps) and apps for embedded functions, such as **FM radio**. Tap on an app icon to open the app.
- 4 Status bar - the activities in the car are shown right at the top of the screen. Network/connection information is shown on the left-hand side of the status bar, while media-related information, the clock and indication about on-going background activity are shown on the right.
- 5 Top view - drag the tab down in order to access the top view. **Settings, Owner's manual, Profile** and the car's saved messages are accessed from here.
- 6 Navigation - leads to map navigation, with e.g. Sensus Navigation\*. Tap on the subview to expand it.
- 7 Media - recently used apps associated with media. Tap on the subview to expand it.
- 8 Phone - the phone function can be reached from here. Tap on the subview to expand it.

- 9 Extra subview - recently used apps/car functions that do not belong in any of the other subviews. Tap on the subview to expand it.
- 10 Climate row - information and direct interaction to set temperature, seat heating level\* and fan speed. Tap on the symbol in the centre of the climate row in order to open the climate view with more setting options.

### Related information

- Operating the centre display (p. 36)
- Navigating in the centre display's views (p. 40)
- Function view with buttons for car functions (p. 47)
- Changing settings for apps (p. 180)
- Symbols in the centre display's status bar (p. 45)
- Settings in the centre display (p. 172)
- Head-up display\* (p. 114)
- Media player (p. 467)
- Phone (p. 481)
- Climate controls in the centre display (p. 187)
- Cleaning the centre display (p. 576)

## Operating the centre display

Many of the car's functions are controlled and regulated from the centre display. The centre display is a touch screen that reacts to touch.

## Using the touch screen functionality in the centre display

The screen reacts differently depending on whether you press, drag or swipe across it. Actions such as browsing between different

views, marking objects, scrolling in a list and moving apps can be performed by touching the screen in different ways.



An infrared film enables the screen to detect a finger that is just in front of the screen. This technology makes it possible to use the screen even with gloves on.





Two people can interact with the screen at the same time, e.g. to adjust the climate for the driver and passenger side respectively.

**!** **IMPORTANT**

Do not use sharp objects on the screen as they may scratch it.

The table below presents the different procedures for operating the screen:

Procedure	Execution	Result
	Press once.	Highlights an object, confirms a selection or activates a function.
	Press twice in quick succession.	Zooms in on a digital object, such as the map*.
	Press and hold.	Grabs an object. Can be used to move apps or map points on the map*. Press and hold your finger against the screen and at the same time drag the object to the desired location.
	Tap once with two fingers.	Zooms out from a digital object, such as the map*.

Procedure	Execution	Result
	Drag	Changes between different views, scrolls a list, text or view. Hold depressed and drag in order to move apps or map points on the map*. Drag horizontally or vertically across the screen.
	Swipe/drag quickly	Changes between different views, scrolls a list, text or view. Drag horizontally or vertically across the screen.
	Drag apart	Zooms in.
	Drag together	Zooms out.

## ◀◀ Turn off the screen and reactivate it



Home button for the centre display.

When the centre display is switched off, the screen is dimmed so as not to be disruptive whilst driving. The climate row will still be visible, and apps and other functions connected to the screen will continue to run.

1. Give a long press on the physical home button below the screen.
  - > The screen goes dark except for the climate row, which continues to be shown. All functions continue to run, such as climate control, audio, guiding\* and apps. In this mode, the screen can be cleaned with the cloth supplied; see the section "Cleaning the centre display".

2. Reactivate the screen - briefly tap on the home button.
  - > The view that was displayed before the screen was switched off will be shown again.

### **i** NOTE

The screen cannot be deactivated when a prompt to perform an action is shown on the screen.

### **i** NOTE

The centre display deactivates automatically when the engine is off and the driver's door is opened.

## Returning to home view from another view

1. Briefly press the home button.
  - > The last position of the home view is shown.
2. Briefly press again.
  - > All subviews of the home view are set to their default mode.

### **i** NOTE

In home view standard mode - briefly press the home button. An animation that describes access to the different views is shown on the screen.

## Moving apps and buttons for car functions

The apps and buttons for car functions in the app view and function view respectively can be moved and organised as desired.

1. Tap on an app/button and hold depressed.
  - > The app/button changes size and becomes slightly transparent. It is then possible to move it.
2. Drag the app/button to a vacant space in the view.

The maximum number of rows available for use in order to position apps/buttons is 48. To move an app/button outside the visible view, drag it to the bottom of the view. New rows are then added, where the app/button can be located.

An app/button can thus be located further down and is then not visible in the normal mode for the view.

Swipe across the screen to scroll upward/downward in the view.

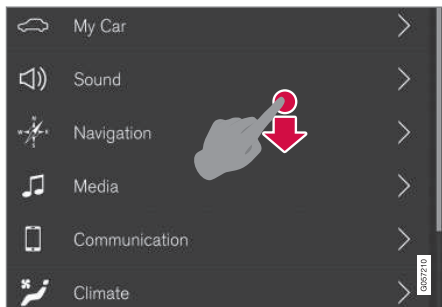


**i NOTE**

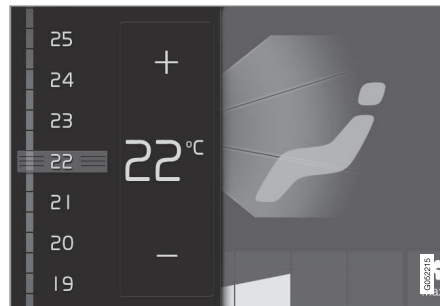
Hide the apps that you rarely or never use by moving them to the bottom, off the visible screen. This way it will be easier to find the apps you use more often.

**Scrolling in a list, article or view**

When a scroll indicator is visible in the screen, it is possible to scroll downward or upward in the view. Swipe downwards/upwards anywhere in the view.



The scroll indicator appears in the centre display when it is possible to scroll in the view.

**Using the controls in the centre display**

Temperature control.

The control is used for many of the car's functions. Regulate e.g. temperature by means of one of the following:

- drag the control to the desired temperature,
- tap on +/- in order to raise/lower the temperature gradually, or
- tap on the desired temperature on the control.

**Related information**

- Navigating in the centre display's views (p. 40)
- Settings in the centre display (p. 172)
- Sensus - online connectivity and entertainment (p. 29)
- Remote control key range (p. 238)

- Downloading, updating and uninstalling apps (p. 493)
- Using the keyboard in the centre display (p. 49)
- Change settings for the centre display (p. 46)

## Navigating in the centre display's views

There are five different basic views in the centre display: home view, top view, climate view, application view (app view) and function view. The screen is started automatically when the driver's door is opened.

### Home view

Home view is the view that is shown when the screen is started. It consists of four subviews: **Navigation**, **Media**, **Phone** and an extra subview.

An app/car function selected from the app/function view starts in the respective subview of the home view. For example **FM radio** starts in the **Media** subview.

The extra subview contains the last used app/car function that is not associated with any of the other three areas.

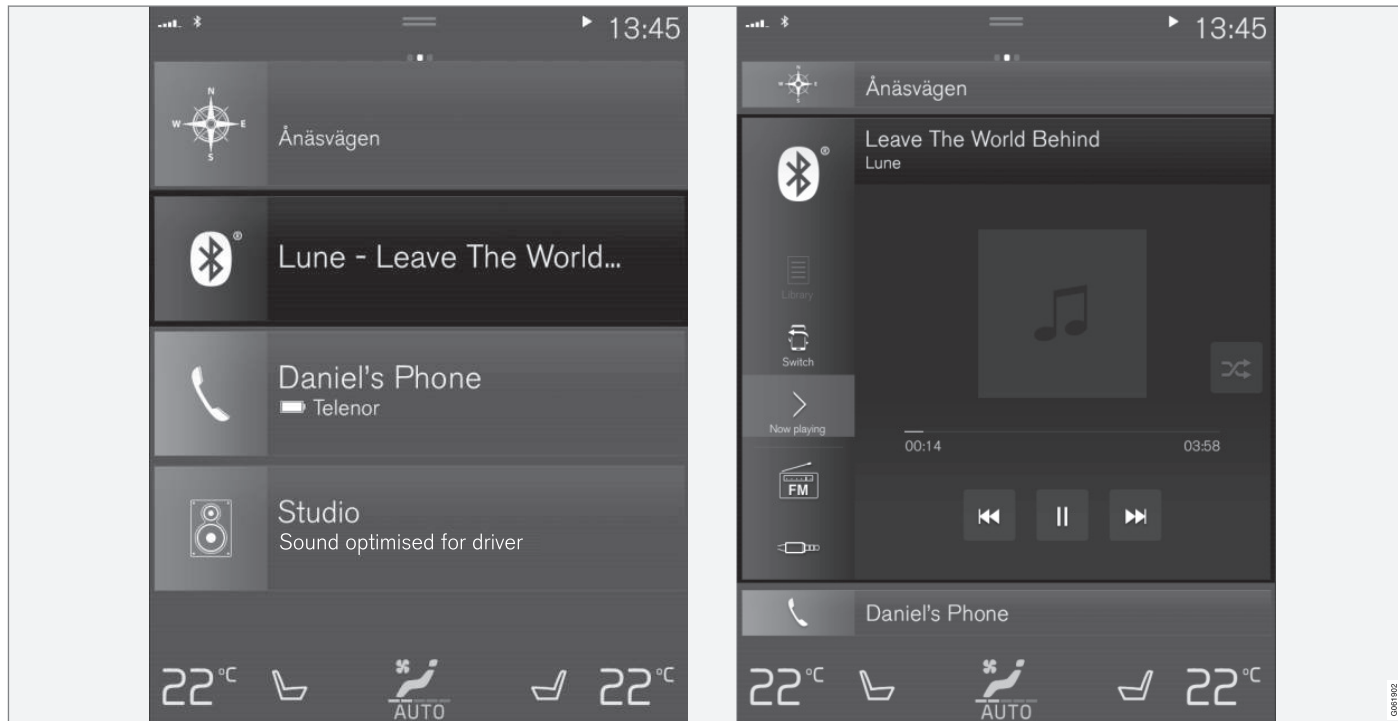
The subviews show brief information about each different app.

#### **i** NOTE

The first time the car is used, some of the home view's subviews have no content.

#### **i** NOTE

In home view standard mode - briefly press the home button. An animation that describes access to the different views is shown on the screen.

**Expanding a subview from default mode**

Standard mode and expanded mode of a subview in the centre display.

## INTRODUCTION

### ◀ Expanding a subview:

- For subview one, two and three: Press anywhere on the subview. When a subview is expanded, the fourth subview in the home view is temporarily forced away. The other two are minimised and only certain information is shown. When the fourth subview is pressed, the other three subviews are minimised and only certain information is displayed.

The expanded view provides access to the basic functions of the app.

### Closing an expanded subview:

- The subview can be closed in three different ways.
  - Tap on the upper part of the expanded subview.
  - Tap on another subview (that subview will then open in expanded mode instead).
  - Briefly press the physical home button below the centre display.

### Opening/closing a subview in full screen mode

The extra subview and the subview for **Navigation** can be opened out in full screen mode, with even more information and more setting options.

When a new subview is opened in full-screen mode, no information from the other subviews is shown.



In expanded mode, open the app in full screen - press on the symbol.



Press on the symbol to go back to the expanded mode, or press the home button at the bottom of the screen.



Home button for the centre display.

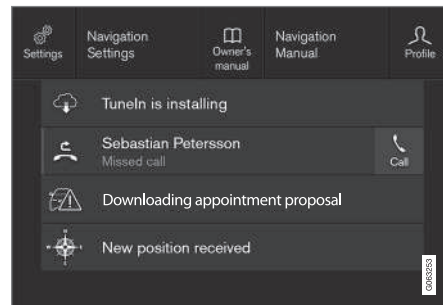
There is always the option to go back to home view by pressing the home button. Go back to the

home view's standard view from full screen mode - press twice on the home button.

### Status bar

The activities in the car are shown at the top of the screen. Network/connection information is shown on the left-hand side of the status bar, while media-related information, the clock and indication that background activity is in progress are shown on the right.

### Top view



Top view dragged down.

A tab is located in the centre of the status bar at the top of the screen. Open the top view by pressing on the tab or by dragging/swiping from the top downwards across the screen.

In the top view, access is always available to:

- **Settings**
- **Owner's manual**
- **Profile**
- The car's saved messages.

In the top view, access is given to the following in some cases:

- Contextual setting (e.g. **Navigation Settings**)
- Contextual owner's manual (e.g. **Navigation Manual**).

Exit the top view - press outside the top view, on the home button or at the bottom of the top view and drag upward. The underlying view is then visible and available for use again.

### **i NOTE**

The top view is not available during starting/shutdown or when a message is shown on the screen. It is also not available when climate view is shown.

### **Contextual setting and owner's manual**

Drag the top view down when an app (e.g. navigation) is running:

- When contextual setting is available, it is shown to the right of **Settings** in the top

view. Press on the contextual setting to access settings that are related to the content that is shown on the screen. E.g. press **Navigation Settings** - settings that are related to navigation are shown.

- When the contextual owner's manual is available, it is shown to the right of **Owner's manual** in the top view. Press on the contextual owner's manual to access articles in the digital owner's manual that are related to the content that is shown on the screen. E.g. press **Navigation Manual** - an article that is related to navigation opens.

This only applies to some of the apps in the car. For third party apps that are downloaded, it is not possible to access app-specific articles or settings, for example.

### **Climate view**

The climate row is always visible at the bottom of the screen. The most common climate settings can be made directly there, such as setting temperature, seat heating and fan.



Press the symbol in the centre of the climate row to open the climate view and gain access to more climate settings.



Press the symbol to close the climate view and return to the previous view.

### **Application view**



Application view with the car's apps.

Swipe from right to left<sup>11</sup> across the screen in order to access the application view (app view) from the home view. Apps that have been downloaded (third-party apps) and apps for embedded functions, such as **FM radio**, are found here. Certain apps show brief information directly in the

<sup>11</sup> Applies to left-hand drive cars. For right-hand drive cars - swipe in the opposite direction.

## INTRODUCTION

◀ app view, such as the number of unread text messages for **Messages**.

Tap on an app to open it. It then opens in the subview to which it belongs, such as **Media**.

Depending on the amount of apps, it is possible to scroll downward in the app view. Do this by swiping/dragging from the bottom and up.

To move an app:

1. Tap on the app and hold depressed.
  - > The app becomes slightly transparent and larger when it is ready to be moved.
2. Drag the app to the desired location.

### **i** NOTE

Apps and car function buttons cannot be added to locations that are already occupied.

Go back to the home view again by swiping from left to right<sup>11</sup> across the screen, or by pressing the home button.

## Function view



The function view with buttons for different car functions.

Swipe from left to right<sup>11</sup> across the screen in order to access the function view from the home view. From here you can activate/deactivate different car functions, e.g. **Lane Departure Warning**, **Lane Keeping Aid\*** and **Park Assist\***.

Depending on the amount of functions, it is also possible here to scroll downward in the view. Do this by swiping/dragging from the bottom and up.

Unlike in app view, where an app is opened with a press, a function is activated/deactivated by pressing the relevant function button. Some functions (trigger functions) open in a new window when pressed.

Just as in app view, it is possible to move the function buttons around and arrange them in the desired order.

### Related information










- Operating the centre display (p. 36)
- Overview of the centre display (p. 33)
- Digital owner's manual in the car (p. 15)
- Function view with buttons for car functions (p. 47)
- Changing settings for apps (p. 180)
- Symbols in the centre display's status bar (p. 45)
- Climate controls in the centre display (p. 187)










<sup>11</sup> Applies to left-hand drive cars. For right-hand drive cars - swipe in the opposite direction.

## Symbols in the centre display's status bar

Overview of the symbols that can be shown in the centre display's status bar.

The status bar shows activities in progress and, in some cases, their status. Not all symbols are shown all the time due to the limited space in the status bar.

Symbol	Specification
	Connected to the Internet.
	Connection to the Internet failed.
	Roaming activated.
	Signal strength in mobile phone network.
	Bluetooth device connected.
	Bluetooth activated but no device connected.
	Information sent to and from GPS.
	Connected to Wi-Fi network.
	Tethering activated (Wi-Fi hotspot). The car then shares the available connection.

Symbol	Specification
	Car modem activated.
	USB sharing active.
	Process in progress.
	Timer for preconditioning active.
	Audio source being played back.
	Audio source stopped.
	Phone call in progress.
	Audio source muted.
	News is received from the radio channel.
	Traffic information is received.
	Clock.

### Related information

- Messages in the driver display and the centre display (p. 109)
- Navigating in the centre display's views (p. 40)

- Messages in the driver display and the centre display (p. 109)

### Change settings for the centre display

The centre display is started automatically when the driver's door is opened. The settings can be changed for the centre display to personalise sound and themes. The screen can be switched off so as not to be disruptive whilst driving.

#### Switching off/changing the system sounds volume in the centre display.

The system sounds volume in the centre display can be adjusted or switched off:

1. Press **Settings** in the top view in the centre display.
2. Press **Sound → System Volumes**.
3. Under **Touch Sounds**, drag the control to change the volume/switch off screen touch sounds. Drag the control to the desired volume.

#### Changing the appearance of the screen

1. Press **Settings** in the top view.
2. Press **My Car → Displays → Display Themes**.
3. Then select theme, e.g. **Minimalistic** or **Chrome Rings**.

As a supplement to these appearances, it is possible to choose between **Normal** and **Bright**. With **Normal**, the screen background is dark and the text is light. This alternative is the default for

all themes. A light variant can also be selected, in which the background is light and the text is dark. This alternative can be useful in e.g. strong daylight.

This alternative is always available for the user and is not affected by the surrounding lighting.

#### Related information

- Settings in the centre display (p. 172)
- Sensus - online connectivity and entertainment (p. 29)
- Cleaning the centre display (p. 576)
- Operating the centre display (p. 36)



## Function view with buttons for car functions

All the buttons for car functions are located in the function view, one of the centre display's

basic views. Navigate to the function view from home view by swiping from left to right across the screen<sup>12</sup>.

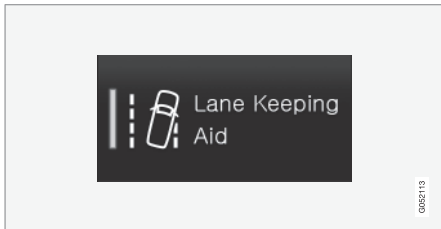
## Different types of buttons

There are three different types of buttons for car functions; see below:

Type of button	Property	Affects car function
Function buttons	<p>Have on/off positions.</p> <p>When a function is running, an LED indicator illuminates to the left of the icon for the button. Press the button to activate/deactivate a function.</p>	Most buttons in function view are function buttons.
Trigger buttons	<p>Do not have on/off positions.</p> <p>When a trigger button is pressed, a window for the function opens. For example, it may be a window for changing a seat's position.</p>	<ul style="list-style-type: none"> <li>• <b>Camera</b></li> <li>• <b>Headrest fold</b></li> <li>• <b>Head-up display adjustments</b></li> </ul>
Parking buttons	<p>Have on, off and scan modes.</p> <p>Similar to the function buttons but with an extra position for parking scanning.</p>	<ul style="list-style-type: none"> <li>• <b>Park In</b></li> <li>• <b>Park Out</b></li> </ul>

<sup>12</sup> Applies to left-hand drive cars. For right-hand drive cars - swipe in the opposite direction.

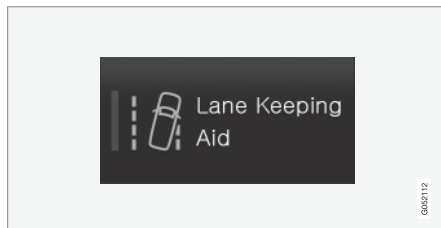
## ◀ The buttons' different modes



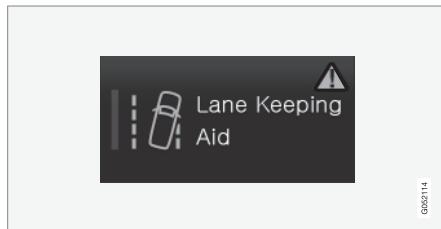
When the LED indicator illuminates in green on a function or parking button, the function is activated. When a function is activated, extra text with an explanation for certain functions is shown. The text is shown for a few seconds and then the button is shown with the LED indicator illuminated.

For **Lane Keeping Aid**, the text **Works only at certain speeds** is shown, for example, when the button is depressed.

Briefly tap on the button once in order to activate/deactivate the function.



The function is deactivated when the LED indicator is extinguished.



When a warning triangle is shown in the right-hand section of the button there is something not working as intended.

### Related information

- Overview of the centre display (p. 33)
- Navigating in the centre display's views (p. 40)
- Categories in the settings menu (p. 173)

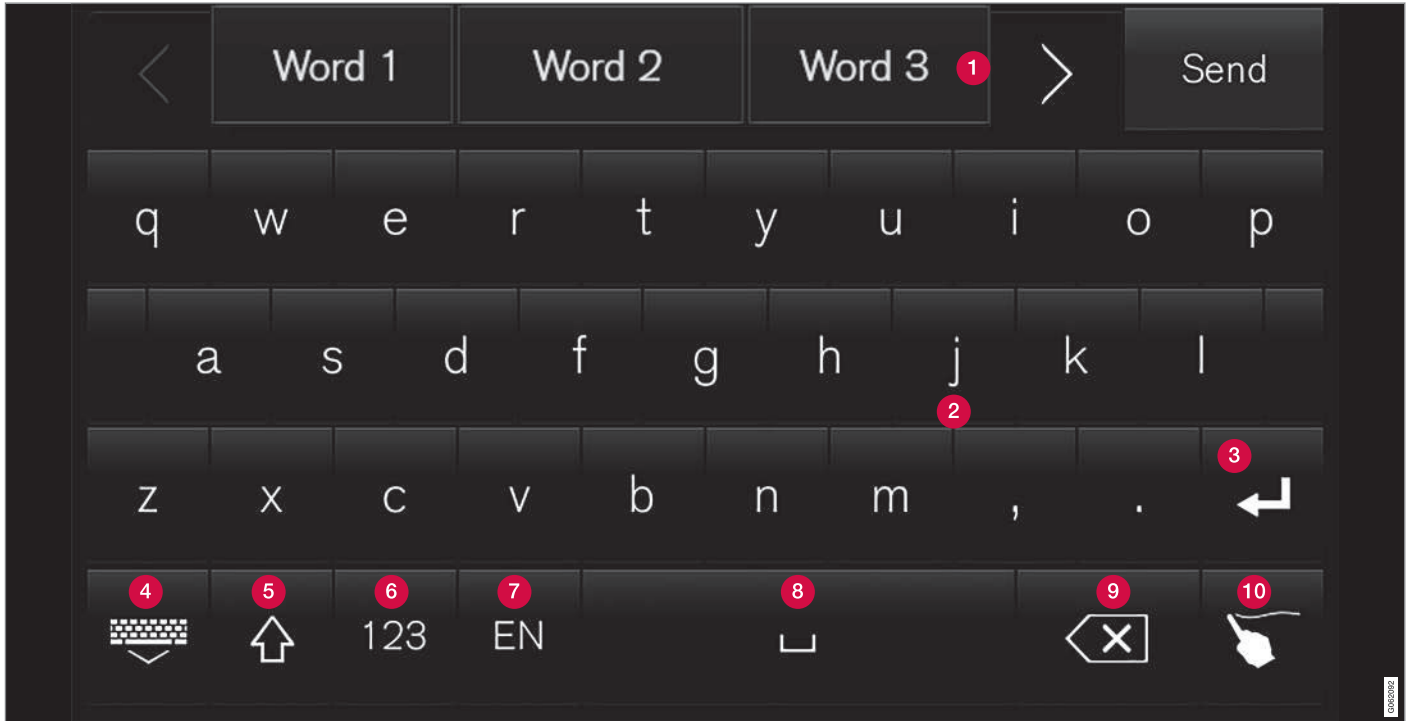
## **Using the keyboard in the centre display**

The centre display keyboard makes it possible to make entries using keys. It is also possible to "draw in" letters and characters on the screen by hand.

## **Making entries with the keyboard**

The keyboard can be used to enter characters, letters and numbers, e.g. to write text messages from the car, enter passwords or search for articles in the digital owner's manual.

The keyboard is only shown when entries can be made on the screen.



The image shows an overview of some of the buttons which may be shown in the keyboard. The appearance varies depending on language settings and the context in which the keyboard is being used.

- 1 Row of suggested words or characters<sup>13</sup>. The suggested words are adjusted as new letters are being entered. Browse among the suggestions by pressing on the right and left arrows. Tap on a suggestion to select it. Note that this function is not supported by all language selections. If not available, the row will not be shown on the keyboard.
- 2 The characters available on the keyboard depend on which language was selected (see point 7). Tap on a character to enter it.
- 3 The button works in different ways, depending on the context in which the keyboard is used - either to enter @ (when an email address is entered) or to **create a new row** (for normal text input).
- 4 Hides the keyboard. If this is not possible, the button is not shown.
- 5 Used to enter capital letters. Press again to enter one capital letter and then continue with lower-case letters. Another press makes all letters capital letters. The next press restores the keyboard to lower-case letters. In this mode, the first letter after a full stop, exclamation mark or question mark is a capital letter. The first letter in the text field is also a capital letter. In text fields intended for names or addresses, each word automatically starts with a capital letter. In text fields for password, web address or email address

entry, all letters are automatically lower case unless otherwise set with the button.

- 6 Number entry. The keyboard (2) is then shown with numbers. Press ABC, which in number mode is shown instead of 123, to return to the letter keyboard, or #\~ to open the keyboard with special characters.
- 7 Changes text input language, e.g. EN. The available characters and word suggestions (1) vary depending on the selected language. One long press opens a list of languages and then tap on the language to be used. A short press changes to the next language on the list without showing the list. To add additional languages in the keyboard - see the heading "Changing keyboard language" below.
- 8 Space.
- 9 Undoes entered text. Press briefly to delete one character at a time. Hold the button depressed to delete characters more quickly.
- 10 Changes keyboard mode to write letters and characters by hand instead. Read more in the section "Writing characters/letters by hand on the screen".

Press the confirmation button above the keyboard (not visible in the image) to confirm the entered text. The appearance of the button differs depending on context.

## Changing the keyboard language

To make it possible to switch between different languages for the keyboard, the languages must first be added under **Settings**.

### Adding/deleting languages in settings

The keyboard is automatically set to the same languages as the system language. The keyboard language can be manually adapted without affecting the system language.

1. Press **Settings** in the top view.
2. Press **System** → **System Languages and Units** → **Keyboard Layouts**.
3. Select one or more languages from the list.
  - > It is now possible to switch between the selected languages directly from the keyboard for text input.

If no languages have been actively selected under **Settings**, the keyboard uses the same language as the car's system language; see the section "Changing system settings in the settings menu".

<sup>13</sup> Applies to Asiatic languages.

## ◀ Switching between different languages in the keyboard



When a number of languages have been selected in **Settings**, the keyboard button (shown in context as number 7 in the illustration above) is used to switch between different languages.

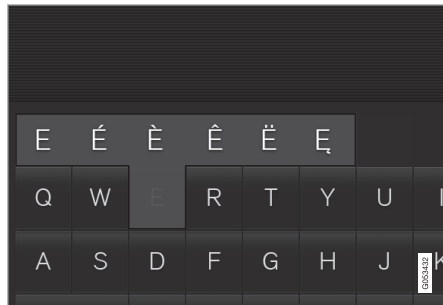
To change keyboard language with list:

1. One long press on the button (see image above).
  - > A list opens.
2. Select the required language. If more than four languages have been selected under **Settings**, it is possible to scroll in the list from the keyboard.
  - > The keyboard is adapted to the selected language and other word suggestions are given.

To change the keyboard language without displaying the list:

- One short press of the button.
  - > The keyboard is adapted to the next language in the list without displaying the list.

## Variants of a letter or character



To enter a variant of a letter/character, e.g. **é** or **è**:

1. Press and hold the letter/character.
  - > A box with possible variants of the letter/character opens.
2. Press the required variant. If none of the variants are selected, the original letter/character is entered.

## Related information

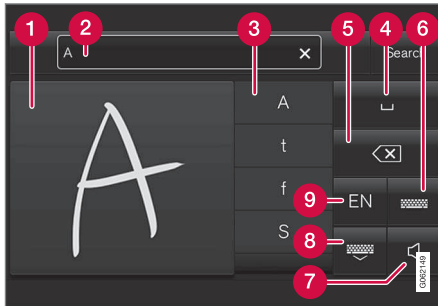
- Writing characters/words by hand on the screen (p. 53)
- Settings in the centre display (p. 172)
- Operating the centre display (p. 36)
- Managing text messages (p. 485)
- Changing system settings in the settings menu (p. 175)

## Writing characters/words by hand on the screen

The centre display keyboard allows you to enter characters, letters and words on the screen by "drawing" by hand.



Press the button on the keyboard to change from typing with the keys to entering letters and characters by hand.



- 1 Area for writing characters/letters/words/ parts of word.
- 2 The text field where the characters or word suggestions appear as they are written on screen (1).

- 3 Suggestions for characters/letters/word/ part of word. It is possible to scroll through the list.
- 4 Space. A space can also be created by entering a dash (-) in the area for hand-written letters (1). See the heading "Entering a space in the free text field with handwriting recognition" below.
- 5 Undo entered text. Press briefly to delete one character/one letter at a time. Wait a moment before pressing again to delete the next character/letter, etc.
- 6 Return to the keyboard with regular character input.
- 7 Switch off/on sound when entering.
- 8 Hide the keyboard. If this is not possible, the button is not shown.
- 9 Change text input language.

## Writing characters/letters/words by hand

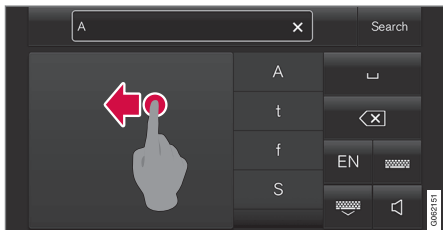
1. Write a character, a letter, a word or parts of a word in the area for hand-written letters (1). Write a word or parts of a word above each other or on a line.
  - > A number of suggested characters, letters or words is shown (3). The most likely choice is found at the top of the list.

### **!** IMPORTANT

Do not use sharp objects on the screen as they may scratch it.

2. Enter the character/letters/word by waiting a moment.
  - > The character/letter/word at the top of the list is entered. It is also possible to select a different character by pressing the required character, letter or word in the list.

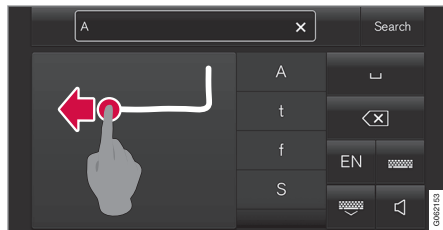
◀◀ **Deleting/changing characters/letters written by hand**



Delete all characters in the text field (2) by swiping across the handwriting field (1).

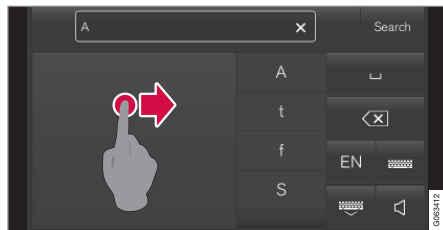
- There are several options for deleting/ changing characters/letters:
  - Press the intended letter or word in the list (3).
  - Press the text undo button (5) to delete the letter and begin again.
  - Swipe horizontally from right to left<sup>14</sup> over the area for handwritten letters (1). Delete multiple letters by swiping over the area several times.
  - Pressing the X in the text field (2) deletes all of the entered text.

**Changing row in the free text field with handwriting**



Change row by hand by drawing the above character in the handwriting field<sup>15</sup>.

**Entering a space in the free text field with handwriting recognition**



Enter a space by drawing a dash from left to right<sup>16</sup>.

**Related information**

- Using the keyboard in the centre display (p. 49)
- Managing text messages (p. 485)
- Changing system settings in the settings menu (p. 175)

<sup>14</sup> For Arabic keyboard - swipe in the opposite direction. Swiping from right to left creates a space.

<sup>15</sup> For Arabic keyboards - draw the same character, but reversed.

<sup>16</sup> For Arabic keyboard - draw the dash from right to left.



SAFETY

## Safety

The vehicle is equipped with several safety systems that work together to protect the vehicle's driver and passengers in the event of an accident.

The car is equipped with a number of sensors that react in the event of an accident and activate different safety systems, such as different types of airbags and seatbelt tensioners. Depending on the specific accident situation, such as collisions at different angles, rollover or driving off the road, the systems react in different ways to provide the best protection.

There are also mechanical safety systems such as Whiplash Protection System. The car is also constructed so that a large part of the force of a collision is distributed to beams, pillars, floor, roof and other parts of the body.

The car's safety mode may be activated after a collision if an important function in the car has been damaged.

### Warning symbol in driver display



The warning symbol is illuminated in the driver display when the car's electrical system is set in ignition position II. The symbol is extinguished after

approx. 6 seconds if the car's safety system is fault-free.

### WARNING

If the warning symbol remains illuminated or is switched on during driving and the message **SRS airbag Service urgent Drive to workshop** is shown in the driver display, it means that part of one of the safety systems does not have full functionality. Volvo recommends that an authorised Volvo workshop should be contacted as soon as possible.

### WARNING

Never modify or repair the car's various safety systems yourself. Defective work in one of the systems can cause malfunction and result in serious personal injury. Volvo recommends that an authorised Volvo workshop should be contacted.



If the specific warning symbol is broken then the general warning symbol is illuminated instead and the driver display shows the same message.

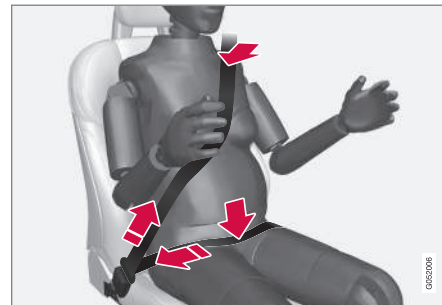
### Related information

- Safety during pregnancy (p. 56)
- Seatbelt (p. 58)
- Airbags (p. 63)
- Whiplash Protection System (p. 57)
- Safety mode (p. 69)
- Child safety (p. 70)

## Safety during pregnancy

It is important that the seatbelt is used correctly during pregnancy, and that pregnant drivers adjust their seating position.

### Seatbelt



The diagonal section should wrap over the shoulder then be routed between the breasts and to the side of the abdomen.

The lap section should lay flat over the thighs and as low as possible under the abdomen. – It must never be allowed to ride upward. Remove the slack from the seatbelt and ensure that it fits as close to the body as possible. In addition, check that there are no twists in the seatbelt.

### Seating position

As the pregnancy progresses, pregnant drivers must adjust the seat and steering wheel such that they can easily maintain control of the vehi-

cle as they drive (which means that they must be able to easily operate the foot pedals and steering wheel). The aim should be to position the seat with as large a distance as possible between abdomen and steering wheel.

### Related information

- Safety (p. 56)
- Seatbelt (p. 58)
- Manual front seat (p. 123)
- Power front seat\* (p. 124)

## Whiplash Protection System

Whiplash Protection System (WHIPS) reduces the risk of whiplash injuries. The system consists of energy-absorbing backrests and seat cushions, and specially designed head restraints in the front seats.

WHIPS is deployed in the event of a rear-end collision, where the angle and speed of the collision and the nature of the colliding vehicle all have an influence.

When WHIPS is deployed, the front seat backrests are lowered backward and the seat cushions move downward to change the seating position of the driver and front seat passenger. Its movement helps to absorb some of the forces that can arise and cause whiplash.

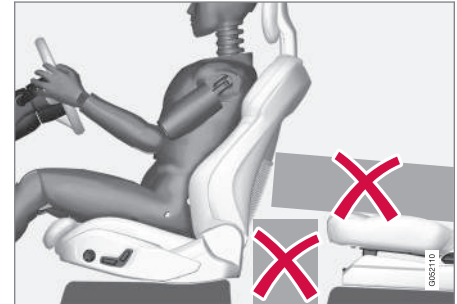
### WARNING

WHIPS is a supplement to the seatbelts. Always use a seatbelt.

### WARNING

Never modify or repair the seat or WHIPS yourself. Volvo recommends that an authorised Volvo workshop should be contacted.

If the front seats have been subjected to a major load, such as in conjunction with a collision, the seats must be replaced. Some of the seats' protective properties may have been lost even if they do not appear damaged.



Do not leave any objects on the floor behind or under the front seats or in the rear seat that may prevent WHIPS from functioning.



### **WARNING**

Do not squeeze rigid objects between the rear seat cushion and the front seat's backrest.

If a backrest in the rear seat is lowered then any load must be secured to prevent it from sliding up to the front seat backrest in the event of a collision.

### **WARNING**

If a backrest in the rear seat is lowered or a rear-facing child seat is used in the rear seat, the corresponding front seat must be moved forward so that it does not make contact with the lowered backrest or child seat.

## Seating position

For optimum protection from WHIPS the driver and passenger must have the correct seating position and make sure that the system's function is not obstructed.

Set the correct seating position in the front seat before driving starts.

Driver and front seat passenger should sit in the centre of the seat with as little space as possible between the head and the head restraint.

## WHIPS and child seats

The protection provided by the car to children seated in a child seat or on a booster cushion is not diminished by WHIPS.

## Related information

- Safety (p. 56)
- Manual front seat (p. 123)
- Power front seat\* (p. 124)
- Rear Collision Warning (p. 354)
- Child seats (p. 71)

## Seatbelt

Heavy braking can have serious consequences if the seatbelts are not used.

It is important that the seatbelt lies against the body so it can provide maximum protection. Do not lean the backrest too far back. The seatbelt is designed to protect in a normal seating position.

### **WARNING**

Remember not to clip or hook the seatbelt to hooks or other interior fittings, as this prevents the belt from tightening properly.

### **WARNING**

The seatbelts and airbags interact. If a seatbelt is not used or is used incorrectly, this may diminish the protection provided by the airbag in the event of a collision.

**⚠ WARNING**

Never modify or repair the seatbelts yourself. Volvo recommends that an authorised Volvo workshop should be contacted.

If the seatbelt has been subjected to a major load, such as in conjunction with a collision, the entire seatbelt must be replaced. Some of the seatbelt's protective properties may have been lost even if the seatbelt does not appear damaged. The seatbelt must also be replaced if it shows signs of wear or damage. The new seatbelt must be type-approved and designed for installation at the same location as the replaced seatbelt.

**Related information**

- Safety (p. 56)
- Seatbelt tensioner (p. 59)
- Fastening/unfastening a seatbelt (p. 60)
- Door and seatbelt reminder (p. 61)

**Seatbelt tensioner**

The car is fitted with pyrotechnic and electric seatbelt tensioners that can tension the seatbelts in critical situations and collisions.

**Seatbelt tensioner during collision**

All the seatbelts are equipped with a pyrotechnic seatbelt tensioner.

The pyrotechnic seatbelt tensioner tensions the seatbelt in the event of a collision with sufficient force in order to more effectively restrain the occupant.

**Seatbelt tensioner during critical situations**

The driver and front passenger seatbelts are equipped with an electric seatbelt tensioner.

The seatbelt tensioners work together and can be activated together with the driver support systems City Safety and Rear Collision Warning. In critical situations, such as panic braking, driving off the road (e.g. the car rolls into a ditch, lifts off the ground or hits something in the terrain), skidding, or risk of collision, the seatbelt can be tensioned by the seatbelt tensioner's electric motor.

The electric seatbelt tensioner adjusts the occupant to a better position, reducing the risk of striking the car's interior and improving the effect of safety systems, such as the car's airbags.

**⚠ IMPORTANT**

If the passenger airbag is deactivated, the electric seatbelt tensioner on the passenger side will also be deactivated.

**Resetting the electric seatbelt tensioner**

Once the critical situation has passed, the seatbelt and electric seatbelt tensioner are reset automatically.

If the belt still remains tensioned:

1. Stop the car at a safe place.
2. Unfasten the seatbelt and then refasten it.
  - > The seatbelt and electric seatbelt tensioner are reset.

**⚠ WARNING**

Never modify or repair the seatbelts yourself. Volvo recommends that an authorised Volvo workshop should be contacted.

If the seatbelt has been subjected to a major load, such as in conjunction with a collision, the entire seatbelt must be replaced. Some of the seatbelt's protective properties may have been lost even if the seatbelt does not appear damaged. The seatbelt must also be replaced if it shows signs of wear or damage. The new seatbelt must be type-approved and designed for installation at the same location as the replaced seatbelt.

## ◀ Related information

- Seatbelt (p. 58)
- Fastening/unfastening a seatbelt (p. 60)
- Door and seatbelt reminder (p. 61)
- City Safety (p. 342)
- Rear Collision Warning (p. 354)
- Activating/deactivating the passenger air-bag\* (p. 65)

## Fastening/unfastening a seatbelt

Make sure that all passengers have fastened their seatbelts before starting to drive.

### Fastening a seatbelt

1. Pull out the seatbelt slowly and make sure it is not twisted or damaged.

Make sure that the seatbelt is correctly in the belt guide available for the second seat row's centre seat.

### **i** NOTE

The seatbelt locks and cannot be withdrawn:

- if it is pulled out too quickly
- during braking and acceleration
- if the car leans heavily.

2. Lock the belt by inserting the locking tab in the intended buckle.
  - > A loud "click" indicates that the belt has locked.

### **⚠** WARNING

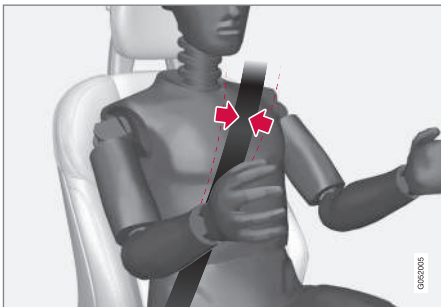
Always insert the tongue of the seatbelt into the buckle on the correct side. The seatbelts and buckles would otherwise possibly not function as intended in the event of a collision. There is a risk of serious injury.

3. In the front seats and in the outer seats in the second seat row the seatbelt can be adjusted for height.



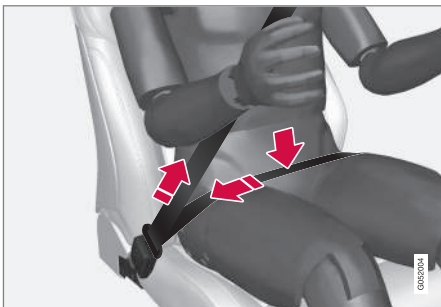
Press together the seat mounting and move the seatbelt up or down.

Position the belt as high as possible without it chafing against your throat.



The seatbelt must pass over the shoulder (not down over the arm).

4. Tension the hip strap over the lap by pulling the diagonal shoulder belt up towards the shoulder.



The hip strap must be positioned low down (not over the abdomen).

### **⚠ WARNING**

Each seatbelt is designed for only one person.

### **⚠ WARNING**

Remember not to clip or hook the seatbelt to hooks or other interior fittings, as this prevents the belt from tightening properly.

### **⚠ WARNING**

Do not make any damages on seatbelts nor insert any foreign objects into a buckle. The seatbelts and buckles would then possibly not function as intended in the event of a collision. There is a risk of serious injury.

### **Unfastening a seatbelt**

1. Press the red button on the seatbelt buckle and then let the belt retract.
2. If the seatbelt does not retract fully, feed it in by hand so that it does not hang loose.

Make sure that the seatbelt is correctly in the belt guide available for the second seat row's centre seat.

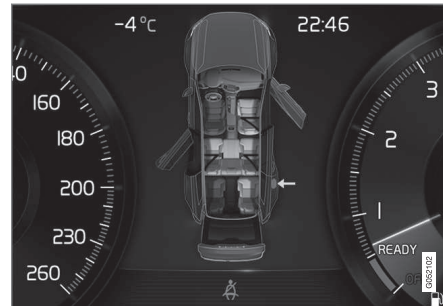
### **Related information**

- Seatbelt (p. 58)
- Seatbelt tensioner (p. 59)
- Door and seatbelt reminder (p. 61)

### **Door and seatbelt reminder**

The system reminds unbelted occupants to wear a seatbelt, and also warns about an open door, bonnet, tailgate or fuel filler flap.

### **Driver display graphics**



Graphics in the driver display with different types of warnings. The warning colour on the door and tailgate is dependent on the vehicle's speed.

The driver display's graphics show which seats in the car are occupied by belted and unbelted passengers.

The same graphic also shows if the bonnet, tailgate, fuel filler flap or any door is open.

The graphic can be acknowledged by pressing the **O** button on the right-hand steering wheel keypad.

## ◀ Seatbelt reminder



Visual reminder in the roof console.

A visual reminder is given in the roof console and by means of the warning symbol in the driver display.

The acoustic reminder is dependent on speed, driving time and distance.

The belt status of the driver and passengers is shown in the driver display graphics when a belt is buckled or unbuckled.

Child seats are not covered by the seatbelt reminder system.

### Front seat

A visual and acoustic reminder remind the driver and front seat passenger to use a seatbelt if either of them is not wearing one.

### Rear seat

The seatbelt reminder in the rear seat has two subfunctions:

- Provides information on which seatbelts are being used in the rear seat. The driver display's graphics are shown when the seatbelts are in use.
- Reminding that a seatbelt in the rear seat is unfastened during a journey by means of a visual and acoustic reminder. The reminder will cease once the seatbelt has been put on again.

### Reminder for doors, bonnet, tailgate and fuel filler flap

If the bonnet, tailgate, fuel filler flap or a door is not closed properly, the driver display's graphics show what is open. Stop the car in a safe place as soon as possible and close the source of the warning.



If the car is driven at a speed lower than approx. 10 km/h (6 mph) then the driver display's information symbol illuminates.



If the car is driven at a speed higher than approx. 10 km/h (6 mph) then the driver display's warning symbol illuminates.

### Related information

- Seatbelt (p. 58)
- Seatbelt tensioner (p. 59)
- Fastening/unfastening a seatbelt (p. 60)



## Airbags

The car is equipped with airbags and inflatable curtains for driver and passengers.

### WARNING

The airbag system's control module is located in the centre console. If the centre console is drenched with water or other liquid, disconnect the cables to the starter battery. Do not attempt to start the car since the airbags may deploy. Recovering the car. Volvo recommends that it is transported to an authorised Volvo workshop.

## Deployed airbags

If any of the airbags have deployed, the following is recommended:

- Recovering the car. Volvo recommends that it is transported to an authorised Volvo workshop. Do not drive with deployed airbags.
- Volvo recommends engaging an authorised Volvo workshop to handle the replacement of components in the car's safety systems.
- Always contact a doctor.

### WARNING

Never drive with deployed airbags. They can make steering difficult. Other safety systems may also be damaged. The smoke and dust created when the airbags are deployed can cause skin and eye irritation/injury after intensive exposure. In case of irritation, wash with cold water. The rapid deployment sequence and airbag fabric may cause friction and skin burns.

## Related information

- Safety (p. 56)
- Driver and passenger airbags (p. 63)
- Side airbag (p. 67)
- Inflatable curtain (p. 68)

## Driver and passenger airbags

As a supplement to the seatbelts, the vehicle is equipped with airbags on the driver and passenger sides in the front seat.



Driver and passenger airbags.

In the event of a frontal collision, the airbags help to protect the head, face and chest of the driver and passenger as well as the knees and legs of the driver.

A sufficiently violent collision trips the sensors and the airbag/airbags is inflated. The airbag cushions the initial collision impact for the occupant. The airbag deflates when compressed by the collision. When this occurs, smoke escapes into the car. This is completely normal. The entire process, including inflation and deflation of the airbag, occurs within tenths of a second.

**i NOTE**

The detectors react differently depending on the nature of the collision and whether or not the seatbelts are fastened. Applies to all belt positions.

It is therefore possible that only one (or none) of the airbags may inflate in a collision. The detectors sense the force of the collision on the vehicle and the action is adapted accordingly so that none, one or more airbags are deployed.

**⚠ WARNING**

The seatbelts and airbags interact. If the belt is not used or is used incorrectly, this may diminish the protection provided by the airbag in the event of a collision.

To minimise the risk of injury if the airbag deploys, passengers must sit as upright as possible with their feet on the floor and backs against the backrest.

**⚠ WARNING**

Volvo recommends that an authorised Volvo workshop should be contacted for repair. Defective work in the airbag system could cause malfunction and result in serious personal injury.

**Driver airbags****Airbag in the steering wheel**

This airbag is fitted into the centre of the steering wheel. The steering wheel is marked **AIRBAG**.

**Knee airbag**

The airbag is folded up in the lower part of the instrument panel on the driver's side. Its cover panel is marked **AIRBAG**.

**⚠ WARNING**

Do not place or attach any object on the top or front of the panel where the knee airbag is stowed.

**Passenger airbag**

The airbag is folded up into a compartment above the glovebox. Its cover panel is marked **AIRBAG**.

**⚠ WARNING**

Do not put objects in front of or above the dashboard where the passenger airbag is located.

**Label for passenger airbag**

Label on the passenger side's sun visor.



Label on the passenger side's door pillar. The label becomes visible when the passenger door is opened.

The warning label for the passenger airbag is positioned as shown above.

**⚠ WARNING**

If the car is not equipped with a switch to activate/deactivate the passenger airbag, the airbag will always be activated.

**⚠ WARNING**

Never allow anybody to stand or sit in front of the front passenger seat.

Never use a rear-facing child seat on the front passenger seat if the airbag is activated.

Front-facing passengers (children and adults) must never sit on the front passenger seat if the passenger airbag is deactivated.

Failure to follow the advice given above can endanger life or lead to serious personal injury.

**Related information**

- Airbags (p. 63)
- Activating/deactivating the passenger airbag\* (p. 65)

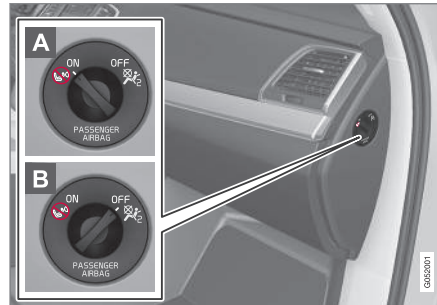
**Activating/deactivating the passenger airbag\***

The passenger airbag can be deactivated if the car is equipped with a switch, Passenger Airbag Cut Off Switch (PACOS).

**Switch**

The switch for the passenger airbag is located on the passenger end of the instrument panel and is accessible when the passenger door is open.

Check that the switch is in the required position.



- A ON** - the airbag is activated and all front-facing passengers (children and adults) can sit safely on the passenger seat.
- B OFF** - The airbag is deactivated and children in rear-facing child seats can sit safely on the passenger seat.

**⚠ WARNING**

If the car is not equipped with a switch to activate/deactivate the passenger airbag, the airbag will always be activated.

## Activating the passenger airbag



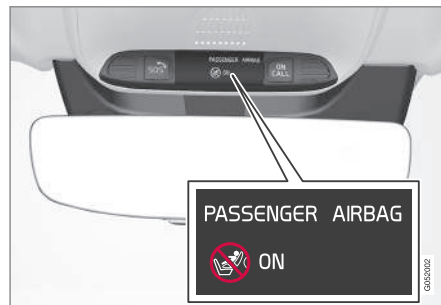
- 1 Pull the switch outward and turn from **OFF** (B) to **ON** (A).

> The driver display shows the message **Passenger airbag on Please acknowledge**.

### **i** NOTE

If the passenger airbag has been activated/deactivated with the car in ignition position **I** or lower, a message is shown in the driver display and the following indicator in the roof console approx. 6 seconds after the car's electrical system has been set in ignition position **II**.

2. Confirm the message by pressing the right-hand steering wheel keypad's **O** button.



> A text message and a warning symbol in the roof console indicate that the airbag for the front passenger seat is activated.

### **⚠** WARNING

Never use a rear-facing child seat on the front passenger seat when the airbag is activated.

The passenger airbag must always be activated when front-facing passengers (children and adults) are sitting in the front passenger seat.

Failure to follow the advice given above can endanger life or lead to serious personal injury.

## Deactivating the passenger airbag



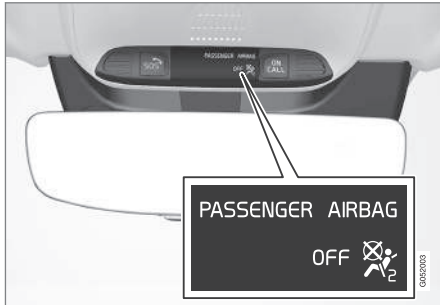
- 1 Pull the switch outward and turn from **ON** (A) to **OFF** (B).

> The driver display shows the message **Passenger airbag off Please acknowledge**.

### **i** NOTE

If the passenger airbag has been activated/deactivated with the car in ignition position **I** or lower, a message is shown in the driver display and the following indicator in the roof console approx. 6 seconds after the car's electrical system has been set in ignition position **II**.

- Confirm the message by pressing the right-hand steering wheel keypad's **O** button.



- > A text message and a symbol in the roof console indicate that the airbag for the front passenger seat is deactivated.

### **⚠ WARNING**

Front-facing passengers (children and adults) must never sit on the passenger seat when the airbag is deactivated.

Failure to follow the advice given above can endanger life or lead to serious personal injury.

### **! IMPORTANT**

If the passenger airbag is deactivated, the electric seatbelt tensioner on the passenger side will also be deactivated.

### Related information

- Driver and passenger airbags (p. 63)
- Seatbelt tensioner (p. 59)
- Child seats (p. 71)

### Side airbag

The side airbags on the driver and passenger seats protect the chest and hip in the event of a collision.



The side airbags are fitted in the outer backrest frames of the front seats and help to protect the driver and passengers in the front seat.

A sufficiently violent collision trips the sensors and the side airbags are inflated. The airbag inflates between the occupant and the door panel and thereby cushions the initial impact. The airbag deflates when compressed by the collision. The side airbag is normally only deployed on the side of the collision.



### **⚠ WARNING**

Volvo recommends that an authorised Volvo workshop should be contacted for repair. Defective work in the side airbag system could cause malfunction and result in serious personal injury.

### **⚠ WARNING**

Do not put objects in the area between the outside of the seat and the door panel, since this area is required by the side airbag.

Volvo recommends the use only of car seat covers approved by Volvo. Other seat covers may impede the operation of the side airbags.

### **⚠ WARNING**

Side airbags are a supplement the seatbelts. Always use a seatbelt.

### **Side airbag and child seats**

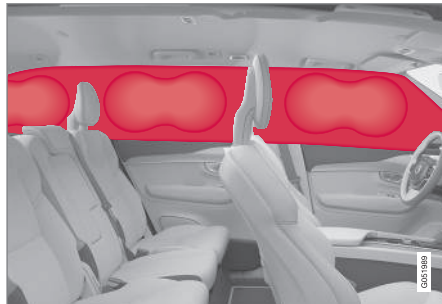
The protection provided by the car to children seated in a child seat or on a booster cushion is not diminished by the side airbag.

### **Related information**

- Airbags (p. 63)
- Child seats (p. 71)

### **Inflatable curtain**

The inflatable curtain, Inflatable Curtain (IC), helps to prevent the driver and passengers from striking their heads on the inside of the car during a collision.



The inflatable curtain is mounted along both sides of the headlining and helps protect the driver and outer seat passengers of the car. The panels are labelled with **IC AIRBAG**.

A sufficiently violent collision trips the sensors and the inflatable curtain is inflated.

### **⚠ WARNING**

Volvo recommends that an authorised Volvo workshop should be contacted for repair. Defective work in the inflatable curtain system can cause malfunction and result in serious personal injury.

### **⚠ WARNING**

Never hang or attach heavy items onto the handles in the roof. The hooks are only designed for light coats and jackets (not for solid objects such as umbrellas).

Do not screw or install anything onto the car's headlining, door pillars or side panels. This could compromise the intended protection. Volvo recommends only using Volvo genuine parts that are approved for fitting within these areas.

### **⚠ WARNING**

Leave 10 cm (4 inches) space between the load and the side windows if the car is loaded to above the top edge of the door windows. Otherwise, the intended protection of the inflatable curtain, which is concealed in the headlining, may be compromised.

### **⚠ WARNING**

The inflatable curtain is a supplement to the seatbelts. Always use a seatbelt.

### **Related information**

- Airbags (p. 63)

## Safety mode

Safety mode is a protective state that is triggered when a collision may have damaged any of the car's vital functions, such as the fuel lines, sensors for any of the safety systems, or the brake system.

If the car has been in a collision, the message **Safety mode See Owner's manual** may be shown on the driver display with a warning symbol as long as the display is not damaged and the car's electrical system is still in working order. This message means that the car has reduced functionality.

### WARNING

Never, under any circumstances, attempt to restart the car if it smells of fuel when the **Safety mode See Owner's manual** message is shown in the driver display. Leave the car at once.

If the car is in safety mode, it is possible to attempt to reset the system in order to start and move the car for a short distance, if in a dangerous traffic situation for example.

### WARNING

Never attempt to repair your car or reset the electronics yourself if the car has been in safety mode. This could result in personal injury or the car not functioning as normal. Volvo recommends that engaging an authorised Volvo workshop to check and restore the car to normal status after **Safety mode See Owner's manual** has been shown.

### WARNING

If the car is in safety mode it must not be towed. It must be transported from its location. Volvo recommends that it is transported to an authorised Volvo workshop.

## Related information

- Safety (p. 56)
- Starting/moving the car after safety mode (p. 69)
- Recovering the car (p. 458)

## Starting/moving the car after safety mode

If the car is in safety mode, it is possible to attempt to reset the system in order to start and move the car for a short distance, if in a dangerous traffic situation for example.

### Starting the car after safety mode

1. Check the general damage situation of the car and whether any fuel has been leaking. There must be no smell of fuel either.

If there is only minor damage and a check has revealed no fuel leaks, starting can be attempted.

### WARNING

Never, under any circumstances, attempt to restart the car if it smells of fuel when the **Safety mode See Owner's manual** message is shown in the driver display. Leave the car at once.

2. Turn the start knob clockwise to switch off the car.

## SAFETY

3. Then try to start the car.
  - > The car's electronics carry out a systems check and then try to resume normal status.

### **IMPORTANT**

If the message **Safety mode See Owner's manual** is still shown on the display the car must not be driven or towed but a vehicle recovery service must then be used instead. Even if the car appears to be driveable, hidden damage may make the car impossible to control once moving.

### **Moving the car after safety mode**

1. If the driver display shows the message **Normal mode The car is now in normal mode** after a start attempt, the car can be carefully moved if standing in a dangerous position.
2. Do not move the car further than necessary.

### **WARNING**

If the car is in safety mode it must not be towed. It must be transported from its location. Volvo recommends that it is transported to an authorised Volvo workshop.

### **Related information**

- Safety mode (p. 69)
- Recovering the car (p. 458)

### **Child safety**

Volvo has child safety equipment (child seats, booster cushions and attachment devices) which is designed for fitting in this particular car.

Using Volvo's child safety equipment, the optimum conditions are obtained for the child to travel safely in the car. In addition, the child safety equipment fits well and is simple to use.

Children of all ages and sizes must always sit correctly secured in the car. Never allow a child to sit on the knee of a passenger.

Volvo recommends that children travel in rear-facing child seats until as late an age as possible, at least up to 3-4 years of age, and then in front-facing booster cushions/child seats until the child is 140 cm tall.

### **NOTE**

Legal provisions about the type of child seat that must be used for children of different ages and heights vary from country to country. Check what does apply.

### **NOTE**

In the event of questions when fitting child safety products, contact the manufacturer for clearer instructions.



### Related information

- Safety (p. 56)
- Child seats (p. 71)
- Integrated child seat\* (p. 83)

### Child seats

The position of a child in the car and the choice of equipment are dictated by the child's weight and size.

Children should sit comfortably and safely. Make sure that the child seat is being used correctly.

Look in the installation instructions for the child seat for the correct fitting.

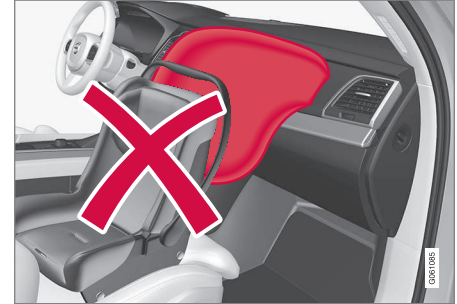
#### **i** NOTE

When using child safety products it is important to read the installation instructions included.

#### **i** NOTE

Never leave a child seat unsecured in the car. Always secure it according to the instructions for the child seat, even when it is not in use.

### Location of child seats



Rear-facing child seat and airbag are not compatible.

Always fit rear-facing child seats in the second or third\* seat row if the passenger airbag is activated. If a child is sitting on the front passenger seat then he/she could suffer serious injury if the airbag deploys.

If the passenger airbag is deactivated then rear-facing child seats can be fitted on the front passenger seat.

#### **i** NOTE

Regulations regarding the placement of children in cars vary from country to country. Check what does apply.



### **WARNING**

Never allow anybody to stand or sit in front of the front passenger seat.

Never use a rear-facing child seat on the front passenger seat if the airbag is activated.

Front-facing passengers (children and adults) must never sit on the front passenger seat if the passenger airbag is deactivated.

Failure to follow the advice given above can endanger life or lead to serious personal injury.

### **Child seat installation**

The following points are important to consider when a child seat is being fitted in the car.

### **WARNING**

Booster cushions/child seats with steel braces or some other design that could rest on the seatbelt buckle's opening button must not be used, as they could cause the seatbelt buckle to open accidentally.

Do not secure the straps for the child seat into the seat's horizontal adjustment bar or in springs, rails or beams under the seat. Sharp edges may damage the straps.

Do not allow the upper section of the child seat to rest against the windscreen.

### **Installation in the front seat**

- When fitting rear-facing child seats, check that the passenger airbag is deactivated.
- When fitting front-facing child seats, check that the passenger airbag is activated.
- Only use child seats that are recommended by Volvo, are universally approved or are semi-universal, and where the car is included on the manufacturer's vehicle list.
- ISOFIX child seats can only be fitted when the car is equipped with the ISOFIX console<sup>1</sup> accessory.

- If the child seat is equipped with lower straps, Volvo recommends that the lower mounting points are used with these<sup>1</sup>.
- The ISOFIX guide can be used in order to facilitate child seat installation.

<sup>1</sup> The accessory range varies depending on market.

### Installation in the second seat row

- Only use child seats that are recommended by Volvo, are universally approved<sup>2</sup> or are semi-universal, and where the car is included on the manufacturer's vehicle list.
- A child seat with support legs must not be fitted in the centre seat.
- The outer seats are equipped with the ISOFIX fixture system and are approved for i-Size<sup>3</sup>.
- The outer seats are equipped with upper mounting points. Volvo recommends that child seat's upper straps should be pulled through the hole in the head restraint before being tensioned at the mounting point. If this is not possible, follow the recommendations from the child seat manufacturer.
- In cars with a third seat row\*, the second seat row must be adjusted to its rearmost position. If a child seat is also used in the third row then an exception can be made. In which case, always check that the child seat is still fitted in accordance with the manufacturer's instructions.
- If the child seat is equipped with lower straps, never adjust the position of the seat in front after the straps have been fitted in the lower mounting points. Always remember

to remove the lower straps when the child seat is not installed.

- The ISOFIX guide must not be used when fitting child seats.

### Installation in the third seat row\*

- Only use child seats that are recommended by Volvo, are universally approved or are semi-universal, and where the car is included on the manufacturer's vehicle list.
- Child seats with support legs must not be fitted in the third row of seats.
- If necessary, adjust the second seat row forward in order to make enough space. If a child seat is also fitted on the second seat row, check that the child seat is still fitted in accordance with the manufacturer's instructions.

### Label for passenger airbag



Label on the passenger side's sun visor.



Label on the passenger side's door pillar. The label becomes visible when the passenger door is opened.

The warning label for the passenger airbag is positioned as shown above.

<sup>2</sup> Does not apply to the centre seat.

<sup>3</sup> Varies depending on market.

#### ◀◀ Related information

- Child safety (p. 70)
- Upper mounting points for child seats (p. 74)
- Lower mounting points for child seats (p. 75)
- i-Size/ISOFIX mounting points (p. 78)
- Activating/deactivating the passenger air-bag\* (p. 65)

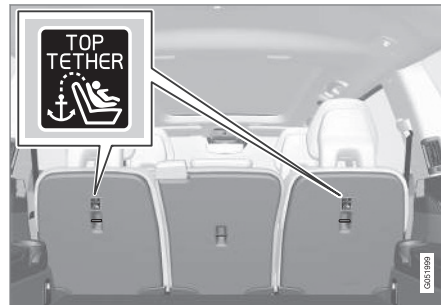
### Upper mounting points for child seats

The car is equipped with upper mounting points for child seats on the outer second row seats.

The upper mounting points are primarily intended for use with front-facing child seats.

Always follow the manufacturer's installation instructions when connecting a child seat to the upper mounting points.

#### The location of the mounting points



Mounting point locations are indicated by symbols on the rear of the backrest.

The mounting points are located on the rear of the outer second row seats.

### **⚠ WARNING**

The child seat's upper straps must be routed through the hole in the head restraint leg before they are tensioned at the mounting point. If this is not possible, follow the recommendations from the child seat manufacturer.

#### **i NOTE**

Fold the head restraints in order to facilitate fitting this type of child seat in cars with folding head restraints on the outer seats.

#### **i NOTE**

In cars with a cargo cover over the luggage compartment, this must be removed before child seats can be attached to the securing points.

#### Related information

- Child seats (p. 71)
- Lower mounting points for child seats (p. 75)
- i-Size/ISOFIX mounting points (p. 78)
- Table for location of child seats using the car's seatbelts (p. 76)

## Lower mounting points for child seats

The vehicle is equipped with lower mounting points for child seats in the front seat\* and the second row of seats.

The lower mounting points are designed to be used in conjunction with certain rear-facing child seats.

Always follow the manufacturer's installation instructions when connecting a child seat to the lower mounting points.

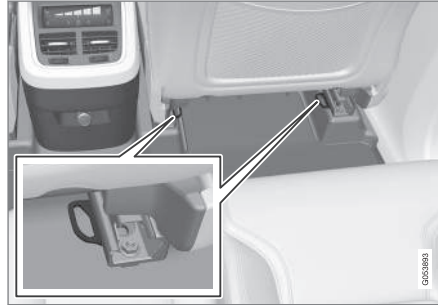
### The location of the mounting points



Mounting point locations in the front seat.

The mounting points in the front seat are located on the sides of the passenger seat's legroom.

The mounting points in the front seat are only mounted if the vehicle is equipped with a switch to activate/deactivate the passenger airbag\*.



Mounting point locations in the second row of seats.

The mounting points in the second row of seats are located on the rear section of the front seat's floor rails.

### Related information

- Child seats (p. 71)
- Upper mounting points for child seats (p. 74)
- i-Size/ISOFIX mounting points (p. 78)
- Table for location of child seats using the car's seatbelts (p. 76)
- Activating/deactivating the passenger airbag\* (p. 65)

### Table for location of child seats using the car's seatbelts

The table gives a recommendation for which child seats suit which locations, and for what size of child.

<b>i</b> <b>NOTE</b>
Always read the section "Child seats" before fitting a child seat in the car.

Weight	Front seat (with deactivated airbag, only rear-facing child seats)	Front seat (with activated airbag, only front-facing child seats)	Second row of seats, outer seat	Second row of seats, centre seat	Third seat row*
Group 0 max 10 kg	U <sup>A,B</sup>	X	U <sup>B</sup>	L <sup>B</sup>	U
Group 0+ max 13 kg	U <sup>A,B</sup>	X	U <sup>B</sup>	L <sup>B</sup>	U
Group 1 9-18 kg	L <sup>C</sup>	UF <sup>A,D</sup>	U, L <sup>C</sup>	L	U
Group 2 15-25 kg	L <sup>C</sup>	UF <sup>A,E</sup>	U <sup>E</sup> , L <sup>C</sup>	B <sup>*,F</sup> , L <sup>E</sup>	U <sup>E</sup>

Weight	Front seat (with deactivated airbag, only rear-facing child seats)	Front seat (with activated airbag, only front-facing child seats)	Second row of seats, outer seat	Second row of seats, centre seat	Third seat row*
Group 3 22-36 kg	X	UF <sup>A, G</sup>	U <sup>G</sup>	B <sup>*, F</sup> , L <sup>G</sup>	U <sup>G</sup>

U: Suitable for universal category restraints approved for use in this mass group.

UF: Suitable for front-facing universally approved child seats.

L: Suitable for particular child restraints. These restraints may be of the specific vehicle, restricted or semi-universal categories.

B: Built-in restraint approved for this mass group.

X: The seat is not suitable for children in this mass group.

<sup>A</sup> Adjust the backrest to a more upright position.

<sup>B</sup> Volvo recommends: Volvo infant seat (type approval E1 04301146).

<sup>C</sup> Volvo recommends: Volvo reversible seat in the rear-facing position (type approval E5 04192); Volvo rear-facing seat (type approval E5 04212).

<sup>D</sup> Volvo recommends rear-facing child seat for children in this mass group.

<sup>E</sup> Volvo recommends: Volvo reversible seat in the front-facing position (type approval E5 04192); booster cushion with and without back (type approval E5 04216); Volvo booster cushion with backrest (type approval E1 04301169); Volvo booster seat (type approval E1 04301312).

<sup>F</sup> Volvo recommends: Integrated child seat (type approval E5 04218).

<sup>G</sup> Volvo recommends: Booster cushion with and without back (type approval E5 04216); Volvo booster cushion with backrest (type approval E1 04301169); Volvo booster seat (type approval E1 04301312).

### WARNING

Never use a rear-facing child seat on the front passenger seat if the passenger airbag is activated.

- Table for location of i-Size child seats (p. 82)

### Related information

- Child seats (p. 71)
- Upper mounting points for child seats (p. 74)
- Table for location of ISOFIX child seats (p. 79)

## i-Size/ISOFIX mounting points

The vehicle is equipped with i-Size/ISOFIX<sup>4</sup> mounting points for child seats in the second row of seats.

i-Size/ISOFIX is a fixture system for car child seats that is based on an international standard.

Always follow the manufacturer's installation instructions when connecting a child seat to the i-Size/ISOFIX mounting points.

### The location of the mounting points



Mounting point locations are indicated by symbols<sup>4</sup> on the upholstery of the backrest.

The mounting points for i-Size/ISOFIX are concealed behind the lower section of the second seat row's backrest, in the outer seats.

Press the seat cushion down to access the mounting points.

### Related information

- Child seats (p. 71)
- Upper mounting points for child seats (p. 74)
- Lower mounting points for child seats (p. 75)
- Table for location of i-Size child seats (p. 82)
- Table for location of ISOFIX child seats (p. 79)

<sup>4</sup> Names and symbols change depending on market.



## Table for location of ISOFIX child seats

The table gives a recommendation for which ISOFIX child seats suit which locations, and for what size of child.

The child seat must be approved in accordance with UN Reg R44 and the car model must be included in the manufacturer's vehicle list.

<b>i NOTE</b>
Always read the section "Child seats" before fitting a child seat in the car.

Weight	Size class <sup>A</sup>	Type of child seat	Front seat (with deactivated airbag, only rear-facing child seats) <sup>B</sup>	Front seat (with activated airbag, only front-facing child seats) <sup>B</sup>	Second row of seats, outer seat	Second row of seats, centre seat	Third seat row*
Group 0 max 10 kg	E	Rear-facing infant seat	IL <sup>B,C</sup> , X <sup>D</sup>	X	IL <sup>C</sup>	X	X
Group 0+ max 13 kg	E	Rear-facing infant seat	IL <sup>B,C</sup> , X <sup>D</sup>	X	IL <sup>C</sup>	X	X
	C	Rear-facing child seat					
	D	Rear-facing child seat					





Weight	Size class <sup>A</sup>	Type of child seat	Front seat (with deactivated airbag, only rear-facing child seats) <sup>B</sup>	Front seat (with activated airbag, only front-facing child seats) <sup>B</sup>	Second row of seats, outer seat	Second row of seats, centre seat	Third seat row*
Group 1 9-18 kg	A	Front-facing child seat	X	IL <sup>B,E</sup> , X <sup>D</sup>	IL <sup>E</sup> , IU <sup>F</sup>	X	X
	B	Front-facing child seat					
	B1	Front-facing child seat	IL <sup>B</sup> , X <sup>D</sup>	X	IL <sup>F</sup>	X	X
	C	Rear-facing child seat					
	D	Rear-facing child seat					

IL: Suitable for particular ISOFIX child restraint systems. These child restraint systems are those of the specific vehicle, restricted or semi-universal categories.

IUF: Suitable for ISOFIX forward child restraint systems of universal category approved for use in the mass group.

X: Not suitable for ISOFIX child restraint systems.

<sup>A</sup> For child seats with the ISOFIX fixture system there is a size classification to help users choose the right type of child seat. The size class can be read on the child seat's label.

<sup>B</sup> Works for the installation of ISOFIX child seats that are semi-universally approved (IL) if the car is equipped with the ISOFIX console accessory (the accessory range varies depending on market).

<sup>C</sup> Volvo recommends: Volvo infant seat secured using the ISOFIX fixture system (type approval E1 04301146).

<sup>D</sup> Applicable if the car is not fitted with an ISOFIX bracket.

<sup>E</sup> Volvo recommends rear-facing child seat for children in this mass group.

<sup>F</sup> Volvo recommends: BeSafe iZi Kid X3 ISOfix (type approval E5 04200).

### WARNING

Never use a rear-facing child seat on the front passenger seat if the passenger airbag is activated.

### NOTE

If an i-Size/ISOFIX child seat has no size classification, the car model must be included on the vehicle list for the child seat.

### NOTE

Volvo recommends contacting an authorised Volvo dealer for information about which i-Size/ISOFIX child seats Volvo recommends.

**Related information**

- Child seats (p. 71)
- i-Size/ISOFIX mounting points (p. 78)
- Table for location of i-Size child seats (p. 82)
- Table for location of child seats using the car's seatbelts (p. 76)

## Table for location of i-Size child seats

The table gives a recommendation for which i-Size child seats suit which locations, and for what size of child.

The child seat must be approved in accordance with UN Reg R129.

<b>i NOTE</b>
Always read the section "Child seats" before fitting a child seat in the car.

Type of child seat	Front seat (with deactivated airbag, only rear-facing child seats)	Front seat (with activated airbag, only front-facing child seats)	Second row of seats, outer seat	Second row of seats, centre seat	Third seat row*
i-Size child seats	X	X	i-U <sup>A</sup>	X	X

i-U: Suitable for i-Size "universal" child seat, front-facing and rear-facing.

X: Not suitable for universally approved child seats.

<sup>A</sup> Volvo recommends rear-facing child seats for this group.

### Related information

- Child seats (p. 71)
- i-Size/ISOFIX mounting points (p. 78)
- Table for location of ISOFIX child seats (p. 79)
- Table for location of child seats using the car's seatbelts (p. 76)

## Integrated child seat\*

The integrated child seat on the centre seat in the second seat row allows children to sit comfortably and safely.

The child seat is especially designed to provide good safety for the child together with the car's seatbelt.

The child seat is approved for children weighing between 15 and 36 kg and at least 97 cm tall.



Correct position, the seatbelt must pass over the shoulder.

Check before driving that:

- the seat cushion is locked in position
- the head restraint is adjusted at the same height as the child's head, if possible, so that it covers the entire back of the head
- the seatbelt is in contact with the child's body and is not slack or twisted

- the seatbelt does not lie across the child's throat or below the shoulder
- the lap section of the seatbelt is positioned low over the pelvis to provide optimal protection.

### WARNING

Volvo recommends that repair or replacement of the integrated child seat is only performed by an authorised Volvo workshop. Do not make any modifications or additions to the child seat. If an integrated child seat has been subjected to a heavy load, e.g. in connection with a collision, then the seat cushion, seatbelt and backrest, or possibly the whole seat, must be replaced. Even if the child seat appears to be undamaged, it may not afford the same level of protection. This also applies if the seat cushion was in lowered position during a collision or similar. The seat cushion must also be replaced if it is heavily worn.

### WARNING

If the instructions for the integrated child seat are not followed then the child could sustain serious injury in the event of an accident.

### Related information

- Child safety (p. 70)
- Folding up the integrated child seat cushion\* (p. 84)

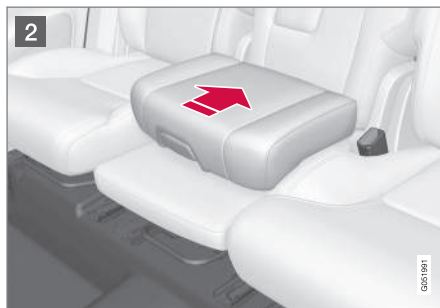
- Folding down the integrated child seat cushion\* (p. 84)

## Folding up the integrated child seat cushion\*

The seat cushion should always be folded up when the integrated child seat is in use.



- 1 Pull the handle forward and up in order to release the seat cushion.



- 2 Press the seat cushion backwards to lock.

### **WARNING**

If the instructions for the integrated child seat are not followed then the child could sustain serious injury in the event of an accident.

### Related information

- Integrated child seat\* (p. 83)
- Folding down the integrated child seat cushion\* (p. 84)

## Folding down the integrated child seat cushion\*

The seat cushion should be folded down into the rear seat when the integrated child seat is not being used.



- 1 Pull the handle forward in order to release the seat cushion.



- 2 Press down with your hand in the centre of the seat cushion in order to lock it.

**!** **IMPORTANT**

Check that there are no loose objects (e.g. toys) left behind in the space under the child seat's seat cushion before lowering.

**i** **NOTE**

Before the rear backrest is lowered, the child seat's seat cushion must be lowered first.

**Related information**

- Integrated child seat\* (p. 83)
- Folding up the integrated child seat cushion\* (p. 84)





AUDIO AND MEDIA

## Audio and media

The audio and media system consists of media player and radio. You can also connect a phone via Bluetooth to use handsfree functions or play music wirelessly in the car. When the car is connected to the Internet you can also use apps for media playback.

Control the functions with your voice, steering wheel keypad or the centre display. The number of speakers and amplifiers depends on which audio system the car is equipped with.



## System updating

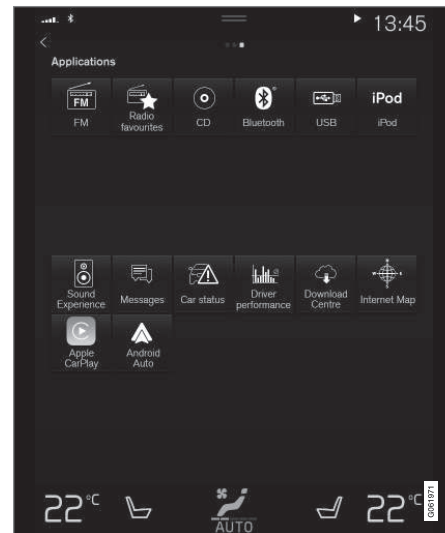
The audio and media system is continuously improved. When the car is online there is the option to download updates for optimal functionality, see the section "System updates" and support.volvocars.com.

## Related information

- Media player (p. 467)
- Radio (p. 462)
- Phone (p. 481)
- Online car\* (p. 488)
- Apps (p. 460)
- Ignition positions (p. 409)
- Symbols in the centre display's status bar (p. 45)
- Voice recognition (p. 117)
- System updates (p. 535)
- License agreement for audio and media (p. 495)

## Apps

Applications (apps) facilitate access to some of the car's services.



Application view. (Generic image, basic apps vary by market and model.)

Some basic apps are always available. When the car is online it is possible to download more. The apps that are available to download vary, but can include Internet radio and music services.

Certain apps are only available for use if the car is connected to the Internet.

- Tap on an app in the app view to launch it.

### Related information

- Online car\* (p. 488)
- Downloading, updating and uninstalling apps (p. 493)
- Changing settings for apps (p. 180)

## Audio settings

The audio system is preset for optimal sound reproduction, but can be adapted according to needs.

The volume is normally adjusted with the volume control below the centre display or with the right-hand steering wheel keypad.

### Setting for optimal sound reproduction

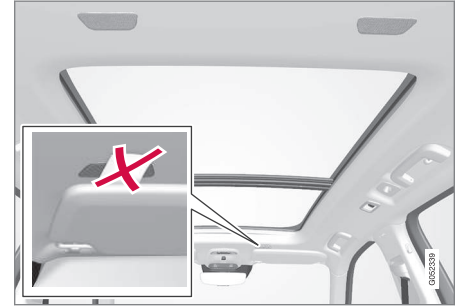
The audio system is pre-calibrated for optimum sound reproduction by means of digital signal processing. This calibration takes into account loudspeakers, amplifiers, passenger compartment acoustics, listener position, etc., for each combination of car model and audio system. There is also a dynamic calibration that takes into account the setting of the volume control and vehicle speed.

Audio settings are described in the corresponding section in the owner information. To access the settings, open the top view and tap on

**Settings → Sound.**

### Active noise reduction\*

Certain cars are equipped with an active noise reduction function that suppresses engine noise in the passenger compartment via the audio system. Microphones in the car's roof detect disruptive noise and the audio system outputs anti-noise in order to dampen the noise.



Microphones in the car's roof.

### **i** NOTE

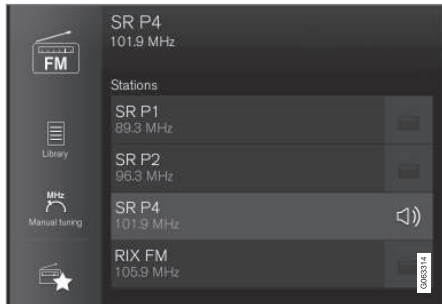
Do not cover the car's microphones.

### Related information

- Audio settings for media (p. 473)
- Settings for voice recognition (p. 119)
- Settings for phone (p. 487)
- Audio and media (p. 460)
- Online car\* (p. 488)

## Radio

It is possible to listen to the AM and FM bands and to digital radio (DAB)\*. When the car is online it is also possible to listen to Internet radio.



The radio can be operated using voice recognition, the steering wheel keypad or the centre display.

### Related information

- Changing and searching radio stations (p. 462)
- Digital radio (p. 465)
- RDS radio (p. 464)
- Online car\* (p. 488)

- Voice recognition control of radio and media (p. 120)
- Media player (p. 467)
- Settings for radio (p. 466)

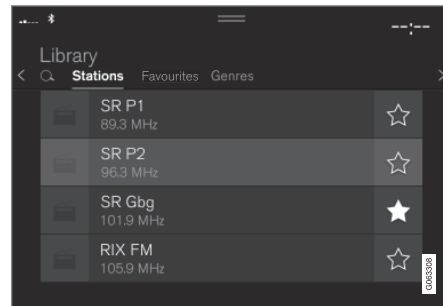
## Changing and searching radio stations

The radio automatically compiles a station list of the radio stations within the area that are transmitting the strongest signals.

### Starting the radio

1. Open the required frequency band (e.g. FM) from the app view.
2. Select station.

### Changing lists within the frequency band



1. Press **Library**.

2. Select playback from **Stations, Favourites, Genres** or **Ensembles**<sup>1</sup>.
3. Tap on the desired station from the list.

**Favourites** — only plays back selected favourite channels, see heading “Favourites” below.

**Genres** — only plays back channels broadcasting the selected genre/programme type, e.g. pop or classical.

### Changing stations within the selected list

- Press on **⏮** or **⏭** under the centre display or the steering wheel's right-hand keypad.
  - > The highlight moves up or down one place in the selected playlist.

You can also change stations from the centre display.

### Favourites

- Tap on **☆** to add or remove a channel to or from frequency band favourites and Radio Favourites.

When a favourite is saved from a station list, the radio will automatically search for the best frequency. But if a favourite is saved from a manual station search, the radio does not automatically change to a stronger frequency.

To choose among favourites within the frequency band, see the heading “Changing lists within the frequency band” above. To choose from among all favourites, see the heading “Radio Favourites” below.

### Radio Favourites



Radio Favourites shows saved favourites from all frequency bands.

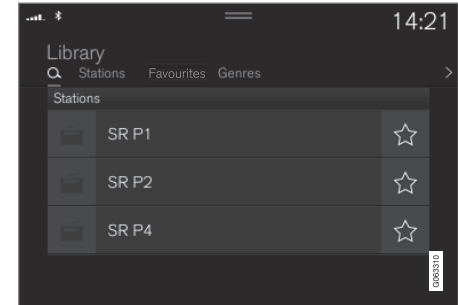
1. Open the app **Radio favourites** from the app view.
2. Tap on the desired station in the list to start listening.

When you remove a favourite, it will also be removed from frequency band favourites.

### Changing radio band

- Return to the app view and press the required frequency band (e.g. **FM**) or open the app view with the right steering wheel keypad and select from there.

### Searching for radio stations



The parameters you can search on depend on the frequency band selected:

- AM — station and frequency.
- FM — station, genre and frequency.
- DAB - ensembles and stations.

1. Press **Library**.
2. Press **🔍**.
  - > Search view with keyboard is opened.
3. Enter the search terms.
  - > Searching takes place with each input of a character and the search results are shown by category.

<sup>1</sup> Only applies to digital radio (DAB).

## Manual tuning



On changing over to manual tuning, the radio no longer changes frequency automatically when reception is poor.

- Press **Manual tuning**, pull the control or press **⏪** or **⏩**. With a long press, the search jumps to the next available station in the frequency band. It is also possible to use the right keypad on the steering wheel.

### Related information

- Radio (p. 462)
- Voice recognition control of radio and media (p. 120)
- Digital radio (p. 465)

## RDS radio

With RDS (Radio Data System) the radio can automatically change to the strongest transmitter. RDS provides the ability to receive e.g. traffic information and to search for certain programme types.

RDS links FM transmitters into a network. An FM transmitter in such a network sends information that gives an RDS radio the following functions:

- Switch automatically to a stronger transmitter if reception in the area is poor.
- Search for programme category, e.g. programme types or traffic information.
- Receive text information on current radio programme.

### **i** NOTE

Some radio stations do not use RDS or only selected parts of its functionality.

When broadcasting news or traffic messages, the radio can switch stations, interrupting the audio source currently in use. For example, if the CD player is in use, it is paused. The radio returns to the previous audio source and volume when the set programme type is no longer broadcast. To go back earlier, press **⏪** on the right-hand steering wheel keypad or tap **Cancel** in the centre display.

## Related information

- Radio (p. 462)
- Settings for radio (p. 466)

## Digital radio

Digital radio (Digital Audio Broadcasting, DAB) is a digital broadcasting system for radio. The radio supports DAB, DAB+ and DMB (Digital Multimedia Broadcasting).



The radio can be operated using voice recognition, the steering wheel keypad or the centre display.



The digital radio app is launched from app view in the centre display.

Digital radio plays back in the same way as FM and AM, see section "Changing and searching for radio stations". Besides the options to select playback from **Stations**, **Favourites** and **Genres**, there is also the option to select playback from subchannels and **Ensembles**. An ensemble is a set of radio channels (a channel group) broadcasting on the same frequency.

In the cases where the radio channel transmits its logotype, it is downloaded and shown beside the station name (download time varies).

## DAB subchannel

Secondary components are usually named subchannels. These are temporary and can contain e.g. translations of the main programme into other languages. Subchannels are indicated with an arrow symbol in the channel list.

## Related information

- Changing and searching radio stations (p. 462)
- Linking between different radio bands FM and DAB (p. 465)
- Voice recognition control of radio and media (p. 120)
- Radio (p. 462)
- Settings for radio (p. 466)
- Resetting settings in the settings menu (p. 176)

## Linking between different radio bands FM and DAB

The function enables the digital radio to switch from a channel with poor or no reception to the same channel in another channel group (ensemble) with better reception, within DAB and/or between DAB and FM.

## DAB to DAB and DAB to FM linking


1. Press **Settings** in top view.
2. Press **Media** → **DAB**.
3. Tick/untick **DAB To DAB Handover** and/or **DAB To FM Handover** in order to activate/deactivate the respective functions.

## Related information

- Digital radio (p. 465)
- Radio (p. 462)
- Settings for radio (p. 466)

## Settings for radio

Settings for the different radio bands.

The broadcast of traffic messages etc. can be temporarily interrupted by tapping on  in the right-hand steering wheel keypad or by tapping on **Cancel** in the centre display.

Drag down the top view and select **Settings** → **Media** and the desired radio band. Activating/deactivating functions.

### AM/FM

- **Show Broadcast Information** — shows information on programme content, artists, etc.
- **Freeze Program Name** — select to stop the programme service name from scrolling continuously. Instead it freezes after 20 seconds.
- **News** - interrupts the current media playback and broadcasts news. Playback of previous media source is resumed when the news broadcast is finished.
- **Traffic Announcements** - interrupts the current media playback and broadcasts information about traffic disruptions. Playback of previous media source is resumed when the message is finished.
- **Local Interruptions** — interrupts the current media playback and broadcasts information about traffic disruptions in the neigh-

bourhood. Playback of previous media source is resumed when the message is finished. The **Local Interruptions** function is a geographically restricted version of the **Traffic Announcements** function. The **Traffic Announcements** function must be activated at the same time.

- **Alarm** - interrupts the current media playback and sends alerts about major accidents and disasters. Playback of previous media source is resumed when the message is finished.

### DAB

- **Sort Services** - selection for how channels will be sorted. Either alphabetically or by service number.
- **DAB To DAB Handover** - starts the function for linking within DAB. If reception of a radio channel is lost, another channel is found automatically in another channel group (ensemble).
- **DAB To FM Handover** - starts the function for linking between DAB and FM. If reception of a radio channel is lost, an alternative FM frequency is searched for automatically.
- **Select Announcements** — select the types of messages to be received while DAB is playing. Selected messages will interrupt the current media playback to play back the message. Playback of previous media source is resumed when the message is finished.

**Alarm** - interrupts the current media playback and sends alerts about major accidents and disasters. Playback of previous media source is resumed when the message is finished.

**Traffic Flash** — receives information about traffic disruptions.

**News Flash** — receives news.

**Transport Flash** — receives information about public transport, e.g. ferry and train timetables.

**Warning/Services** — receives information about incidents of lower significance than the Alarm function, e.g. power failures.

- **Show Broadcast Information** — select to show radio text or selected types of radio text, e.g. artist.
- **Show Program Related Images** — select whether or not to show images for programmes on the screen.

### Related information

- Radio (p. 462)
- Symbols in the centre display's status bar (p. 45)
- Digital radio (p. 465)

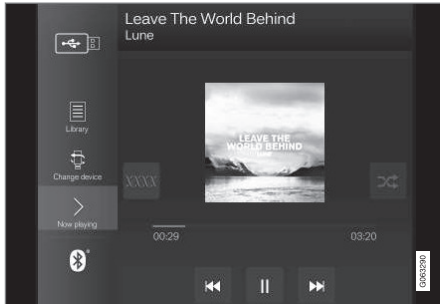


## Media player

The media player can play back audio from the CD player\*, from external audio sources via the USB port or via Bluetooth. It can also play video via the USB port.

When the car is connected to the internet, it is also possible to listen to web radio, audio books and music services via apps.

The radio is operated in the media player and is described in a separate section.



The media player is operated from the centre display, but several functions can be operated using the steering wheel's right-hand keypad or voice control.

## Related information

- Media playback (p. 467)
- Voice recognition control of radio and media (p. 120)
- Apps (p. 460)
- Radio (p. 462)
- CD player\* (p. 471)
- Media via Bluetooth® (p. 471)
- Media via USB port (p. 472)
- video (p. 473)

## Media playback

The media player is controlled from the centre display. Several functions can also be operated using the steering wheel's right-hand keypad or voice control.

The media player also operates the radio, which is described in a separate section.

## Starting the media source



Application view. (Generic image, basic apps vary by market and model.)

◀◀ **CD\***

1. Insert a CD.
2. Open the app **CD** from the app view.
3. Select what to play back.  
> Playback begins.

**USB memory**

1. Insert the USB memory.
2. Open the app **USB** from the app view.
3. Select what to play back.  
> Playback begins.

**Mp3 player and iPod®**

**i NOTE**

To start playback from iPod, use the iPod app (not USB).

When an iPod is used as audio source, the car's audio and media system has a menu structure that is similar to the iPod player's own menu structure.

1. Connect media source.
2. Start playback from the connected media source.
3. Open the app (**iPod, USB**) from the app view.  
> Playback begins.

**Bluetooth connected device**

1. Activate Bluetooth in the media source.
2. Connect media source.
3. Start playback from the connected media source.
4. Open the app **Bluetooth** from the app view.  
> Playback begins.

**Internet media**

1. Connecting the car.
2. Open the app from the app view.  
> Playback begins.

**video**

1. Connect media source.
2. Open the app **USB** from the app view.
3. Tap on the title of the desired item to play back.  
> Playback begins.

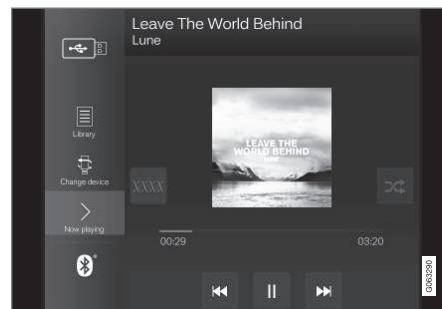
**Apple CarPlay**

Apple CarPlay is described in a separate section.

**Controlling and changing media**



The media player can be operated by voice recognition, from the steering wheel keypad or the centre display.




Volume - turn the control knob under the centre display or press ▲ ▼ on the steering wheel's right-hand keypad in order to increase or decrease the volume.

Play/pause - tap on the image belonging to the song being played back, the physical button under the centre display or ○ on the steering wheel's right-hand keypad.

Change track/song - tap on the desired track in the centre display, press on ⏮ or ⏭ under the centre display or on the steering wheel's right-hand keypad.

Fast forward/move in time - tap on the time axis in the centre display and drag sideways, or press and hold ⏮ or ⏭ under the centre display or on the steering wheel's right-hand keypad.

Changing media - select from previous sources in the app, in the app view, press on the desired app or select with the steering wheel's right-hand keypad via the app menu .



**Library** - tap on the button to play back from the library.



**Shuffle** - tap on the button to shuffle the playback order.



**Similar** - tap on the button in order to use Gracenote to search for similar music on the USB device and to create a playlist from it. The playlist can contain a maximum of 50 songs.



**Change device** - tap on the button in order to switch between USB devices when several are connected.

### Settings for video

With the video player in full screen mode, or by opening the top view and pressing **Settings** → **Video**, the following can be adjusted: **Audio Language**, **Off** and **Subtitle Language**.

### Playing back DivX®

This DivX Certified® device must be registered in order to play back purchased DivX Video-on-Demand (VOD) films.

1. Press **Settings** in top view.
2. Tap **Video** → **DivX® VOD** and retrieve the registration code.
3. Go to [vod.divx.com](http://vod.divx.com) for more information and to complete the registration.

### Related information

- Using the application menu in the driver display (p. 108)
- Voice recognition control of radio and media (p. 120)
- Connecting the car (p. 488)
- Apps (p. 460)
- Searching media (p. 470)
- Connecting a device via Bluetooth® (p. 472)
- Connecting a device via USB port (p. 472)
- CD player\* (p. 471)
- Radio (p. 462)
- Gracenote® (p. 470)

- video (p. 473)
- Audio settings for media (p. 473)
- TV\* (p. 474)
- Apple CarPlay\* (p. 475)
- Android Auto\* (p. 477)
- Technical specifications for media (p. 479)

## Gracenote®

Gracenote identifies artist, album, song titles and associated images, which are shown during playback.

Gracenote MusicID® is a standard for music recognition.

1. Press **Settings** in top view.
2. Press **Media** → **Gracenote**®.
3. Select settings for Gracenote data:
  - **Gracenote**® **Online Search** - searches in Gracenote's online database for playing media.
  - **Gracenote**® **Multiple Results** - selects how to display Gracenote data if there are more than one search results.
    - 1 - the file's original data are used.
    - 2 - Gracenote data are used.
    - 3 - Gracenote or original data can be selected.
  - **None** - no results are shown.

## Updating Gracenote

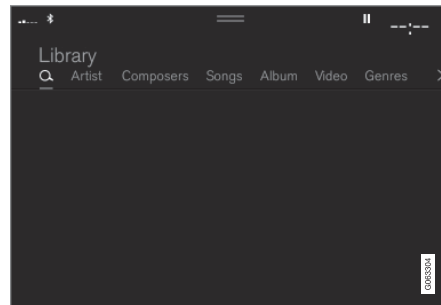
The content of the Gracenote database is updated continuously. Download the latest update for optimal functionality. For information and download, see support.volvocars.com.

## Related information

- Media playback (p. 467)
- License agreement for audio and media (p. 495)

## Searching media

It is possible to search by artist, composer, song titles, album, video, audio book, playlist and, with an online connected car, podcasts (digital media via Internet).



1. Press **Q**.
  - > Search view with keyboard is opened.
2. Enter the search terms.
3. Press **Search**.
  - > Connected devices are searched and the search results are listed by category.

Swipe sideways across the screen to show each category separately.

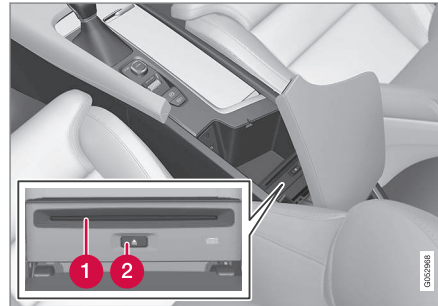
## Related information

- Media player (p. 467)
- Media playback (p. 467)

- Using the keyboard in the centre display (p. 49)
- Online car\* (p. 488)

### CD player\*

The media player can play back CD discs with audio files. See technical specifications for supported formats.



- ❶ Disc insert and eject slot.
- ❷ Disc eject button.

### Related information

- Media playback (p. 467)
- Voice recognition control of radio and media (p. 120)
- Media player (p. 467)
- Technical specifications for media (p. 479)

### Media via Bluetooth®

The car's media player is equipped with Bluetooth® and can wirelessly play audio files from external devices with Bluetooth®, such as mobile phones and PDAs.

### Related information

- Connecting a device via Bluetooth® (p. 472)
- Media playback (p. 467)
- Voice recognition control of radio and media (p. 120)
- Media player (p. 467)
- Ignition positions (p. 409)
- Technical specifications for media (p. 479)

## Connecting a device via Bluetooth®

Connect a Bluetooth® device with the car in order to stream media and use as Internet connection if it is available.

Many phones on the market now have wireless Bluetooth® technology, but not all of them are fully compatible with the car. For compatibility, see support.volvocars.com.

The procedure for connecting a media device is the same as for connecting a phone.

### Related information

- Connect phone (p. 482)
- Media via Bluetooth® (p. 471)
- Media playback (p. 467)
- Media player (p. 467)

## Media via USB port

An external audio source, e.g. an iPod® or MP3 player, can be connected to the audio system.

Devices with rechargeable batteries are recharged when connected via USB and the ignition is in position **I, II** or the engine is running.

The content of the external source can be loaded more quickly if it only consists of compatible formats. Video files can also be played back via the USB port.

Some MP3 players have their own file systems that are not supported by the audio system.

### Related information

- Connecting a device via USB port (p. 472)
- Media playback (p. 467)
- Voice recognition control of radio and media (p. 120)
- Media player (p. 467)
- Ignition positions (p. 409)
- video (p. 473)
- Apple CarPlay\* (p. 475)
- Technical specifications for media (p. 479)

## Connecting a device via USB port

An external audio source, e.g. an iPod® or MP3 player, can be connected to the audio system via one of the ports in the tunnel console. Allow the cable to lie forwards so that it is not trapped when the lid is closed.

The phone must be connected to the USB port with white frame (when there are two USB ports) when using Apple CarPlay\* and Android Auto\*.



USB ports in the tunnel console.

### Related information

- Media playback (p. 467)
- Media via USB port (p. 472)
- Media player (p. 467)
- Technical specifications for media (p. 479)

## video

Videos on USB-connected devices can be played back using the media player.

No picture is shown when the car starts to move, but only the audio is played back. The picture is shown again when the car is stationary.

See section "Technical specifications for media" for supported video formats.

## Related information

- Media playback (p. 467)
- Media player (p. 467)
- Technical specifications for media (p. 479)

## Audio settings for media

Changing the audio settings for music and other playback.

1. Press **Settings** in top view.
2. Tap on **Sound** and select settings:
  - **Tone** — personal settings for bass, treble, equaliser, etc.
  - **Balance** - balance between right/left loudspeakers and balance between front/rear loudspeakers.
  - **System Volumes** – adjusts volume in the various systems of the car. For example, **Voice Control**, **Park Assist** and **Phone Ringtone**.

With the **Sound Experience** app, there are more audio playback options, e.g. playback with concert hall feel. The settings replace any choices made for audio settings.

## Related information

- Audio settings (p. 461)
- Media player (p. 467)

## Sound experience\*

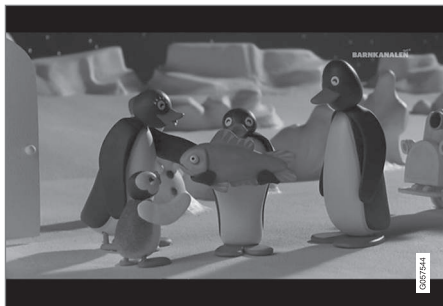


Recreating the acoustics from Gothenburg Concert Hall.

## TV\*2

No images are shown once the car reaches a certain speed but the sound will be heard the whole time. The picture returns once more when the car is almost or completely stationary.

The TV is controlled from the centre display. Several functions can also be controlled from the right keypad on the steering wheel or with voice recognition.



### Related information

- Using the TV\* (p. 474)

<sup>2</sup> Applies to certain markets.

<sup>3</sup> Applies to certain markets.

## Using the TV\*3

### Start the TV

1. Open the app **TV** from the app view.
2. Select a channel.

### Change or search for TV channels

The TV automatically searches for the channels with best reception.

### Change the list of visible channels

1. Press **Library**
2. Select playback from **TV-channels** or **Favourites**.
3. Select the desired channel.

### Change channel from selected list

- Press on **◀◀** or **▶▶** under the centre display or on the steering wheel keypad.
  - > The highlight moves up or down one place in the selected playlist

You can also change stations from the centre display.

### Favourites

A TV channel can be saved as a favourite:

- Tap on **☆** in order to add/remove a channel to/from the favourites list.

## TV guide

A programme guide is available with information about TV programmes for up to 48 hours.

- Tap on **Guide** to show information about TV programmes.

### **i** NOTE

If the car is moved within the country, e.g. from city to city, it is not certain that

**Favourites** are available since the frequency may have changed.

### Change the format of the TV picture

Tapping on **Picture format** enables you to choose which format the TV picture should be shown in.

1. **Auto** - The TV picture is shown in the image format being transmitted.
2. **Auto fill** - The TV picture is maximised without cropping.

### Settings for TV

The option to make certain settings is available, both in the top view or when TV-viewing takes place in full screen mode.



With the video player in full screen mode, or by opening the top view and pressing **Settings** → **Media** → **TV**, the following can be adjusted:

- **Subtitle Language**
- **Audio Language**

### **i** NOTE

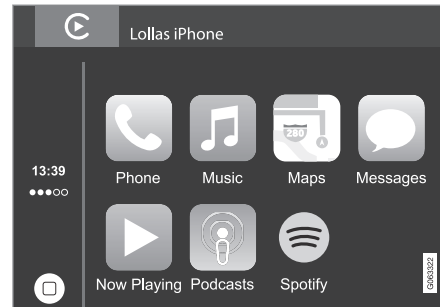
The system only supports TV broadcasts in the countries that broadcast in MPEG-2 or MPEG-4 format and follow the DVB-T/T2 standard. The system does not support analogue broadcasts.

### Related information

- TV\* (p. 474)
- Voice recognition control of radio and media (p. 120)
- Media playback (p. 467)
- Navigating in the centre display's views (p. 40)
- License agreement for audio and media (p. 495)

## Apple CarPlay\*



Apple CarPlay gives you the option to listen to music, make phone calls, get directions, send/receive messages and use Siri, all while you stay focused on your driving. Apple CarPlay works with selected Apple devices.



If the car is not already equipped with Apple CarPlay then it is possible to install it afterwards. Contact a Volvo dealer to install Apple CarPlay.

Information about which apps are supported and which phones are compatible is available on Apple's website: [www.apple.com/ios/carplay/](http://www.apple.com/ios/carplay/). Using apps that are not compatible with Apple CarPlay may sometimes mean that the connection between an iPhone and the car is broken. Please note that Volvo is not responsible for the content in Apple CarPlay.

When using map navigation via Apple CarPlay there is no guidance in the driver display or head-up display, but only in the centre display.

The Apple CarPlay apps can be controlled via the centre display, mobile phone or with the steering wheel's right-hand keypad (applies to certain functions). The apps can also be voice-controlled using Siri. A long press on the steering wheel button  starts voice control using Siri and a short press activates the car's own voice control. If Siri breaks off too early, hold the steering wheel button  depressed.

**By using Apple CarPlay you acknowledge the following: Apple CarPlay is a service provided by Apple Inc. under its terms and conditions. Volvo Cars is thus not responsible for Apple CarPlay or its features/applications. When using Apple CarPlay, certain information from your car (including its position) is transferred to your iPhone. In relation to Volvo Cars, you are fully responsible for your and any others person's use of Apple CarPlay.**

### Related information

- Media player (p. 467)
- Connecting the car (p. 488)
- Using Apple CarPlay\* (p. 476)

## Using Apple CarPlay\*

To use Apple CarPlay, Siri voice control must be activated in your phone. The phone must also have an Internet connection via Wi-Fi or the mobile network.

### Connect an iPhone and start Apple CarPlay

#### **i** NOTE

Apple CarPlay can only be used if Bluetooth is deactivated. A phone or media player connected to the car via Bluetooth will therefore not be available when Apple CarPlay is active. An alternative Internet source must be used to connect to the Internet for the car's apps. Use Wi-Fi or the car's built-in modem\*.

1. Connect an iPhone to the USB port. In the cases where there are two USB ports, the one with the white frame around the port must be used.
2. Read the information in the pop-up message and then tap on **OK**.
3. Tap on **Apple CarPlay** in the app view.
4. Read the terms and conditions and then tap on **Accept** to connect.
  - > The subview with Apple CarPlay is opened and compatible apps are shown.

5. Tap on the desired app.
  - > The app starts.

### Starting Apple CarPlay

Apple CarPlay is started according to the following after an iPhone has been connected.

1. Connect an iPhone to the USB port. In the cases where there are two USB ports, the one with the white frame around the port must be used.
  - > **If the setting for automatic start is selected** - the subview with Apple CarPlay is opened and compatible apps are shown.
2. If the subview with Apple CarPlay is not opened, tap on **Apple CarPlay** in the app view.
  - > The subview with Apple CarPlay is opened and compatible apps are shown.
3. Tap on the desired app.
  - > The app starts.

Apple CarPlay runs in the background if another app is started in the same subview. To show Apple CarPlay in the subview again - tap on the Apple CarPlay icon in the app view.

### Switch the connection between Apple CarPlay and iPod

#### Apple CarPlay to iPod

1. Press **Settings** in top view.

2. Continue to **Communication** → **Apple CarPlay**.
3. Untick the box for the Apple device that shall no longer start Apple CarPlay automatically when the USB cable is connected.
4. Disconnect and connect the Apple device to the USB port.
5. Open the app **iPod** from the app view.

#### iPod to Apple CarPlay

1. Tap on **Apple CarPlay** in the app view.
2. Read the information in the pop-up message and then tap on **OK**.
3. Disconnect and connect the Apple device to the USB port.
  - > The subview with Apple CarPlay is opened and compatible apps are shown.

#### Related information

- Media player (p. 467)
- Media playback (p. 467)
- Connecting a device via USB port (p. 472)
- Settings for Apple CarPlay\* (p. 477)
- Connecting the car (p. 488)

## Settings for Apple CarPlay\*

Settings for Apple device connected with Apple CarPlay.

### Automatic start

1. Press **Settings** in top view.
2. Continue to **Communication → Apple CarPlay** and select setting:
  - Tick the box - Apple CarPlay starts automatically when the USB cable is connected.
  - Untick the box - Apple CarPlay does not start automatically when the USB cable is connected.

A maximum of 20 Apple devices can be stored in the list. When the list is full and a new device is connected the oldest one is deleted.

A factory reset is required in order to delete the list; see the section "Resetting settings in the settings menu".

### System volumes

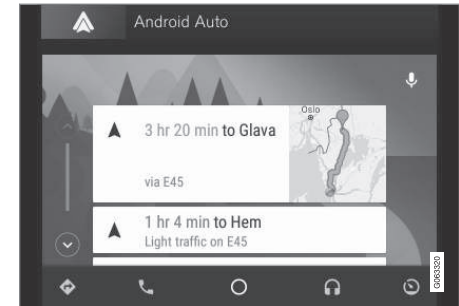
1. Press **Settings** in top view.
2. Tap on **Sound → System Volumes** and make the settings for the following:
  - **Voice Control**
  - **Navi Voice Guidance**
  - **Phone Ringtone**

### Related information

- Apple CarPlay\* (p. 475)
- Resetting settings in the settings menu (p. 176)

## Android Auto\*

Android Auto gives you the option to listen to music, make phone calls, get directions and use car-adapted apps from an Android device. Android Auto works with selected Android devices.



Information about which apps are supported and which phones are compatible is available on the website: [www.android.com/auto/](http://www.android.com/auto/). For third-party apps, see Google Play. Please note that Volvo is not responsible for the content in Android Auto.

Android Auto is started from the app view. After Android Auto has been started once, the application will be started automatically the next time the device is connected. Automatic start can be deactivated under settings.






### **i** NOTE

When a phone is connected to Android Auto it is possible to stream via Bluetooth to another media player. Bluetooth is active while Android Auto is being used.

When using map navigation via Android Auto there is no guidance in the driver display or head-up display, but only in the centre display.

Android Auto can be controlled via the centre display using the steering wheel's right-hand keypad or voice control. A long press on the steering wheel button  starts voice recognition control and a short press deactivates.

**By using Android Auto, you acknowledge the following: Android Auto is a service provided by Google Inc. under its terms and conditions. Volvo Cars is not responsible for Android Auto or its features or applications. When you use Android Auto, your car transfers certain information (including its location) to your connected Android phone. You are fully responsible for your and any other person's use of Android Auto.**

## Starting Android Auto

### The first time an Android is connected

1. Connect the Android to the USB port. In the cases where there are two USB ports, the one with the white frame around the port must be used.
2. Read the information in the pop-up message and then tap on **OK**.
3. Tap on **Android Auto** in the app view.
4. Read the terms and conditions and then tap on **Accept** to connect.
  - > The subview with Android Auto is opened and compatible apps are shown.
5. Tap on the desired app.
  - > The app starts.

### Previously connected Android

1. Connect the phone to the USB port.
  - > **If the setting for automatic start is selected** - the subview with Android Auto is opened and compatible apps are shown.
2. **If the setting for automatic start is not selected** - open the **Android Auto** app from the app view.
  - > The subview with Android Auto is opened and compatible apps are shown.
3. Tap on the desired app.
  - > The app starts.

Android Auto runs in the background if another app is started in the same subview. To show Android Auto in the subview again - tap on the Android Auto icon in the app view.

### Related information

- Media player (p. 467)
- Media playback (p. 467)
- Connecting a device via USB port (p. 472)
- Settings for Android Auto\* (p. 479)
- Connecting the car (p. 488)
- Overview of the centre display (p. 33)

## Settings for Android Auto\*

Settings for a phone that has been connected the first time with Android Auto.

### Automatic start

1. Press **Settings** in top view.
2. Press **Communication → Android Auto** and select setting:
  - Tick the box - Android Auto starts automatically when the USB cable is connected.
  - Untick the box - Android Auto does not start automatically when the USB cable is connected.

A maximum of 20 Android devices can be stored in the list. When the list is full and a new device is connected the oldest one is deleted.

A factory reset is required in order to delete the list; see the section "Resetting settings in the settings menu".

### System volumes

1. Press **Settings** in top view.
2. Tap on **Sound → System Volumes** and make the settings for the following:
  - **Voice Control**
  - **Navi Voice Guidance**
  - **Phone Ringtone**

### Related information

- Android Auto\* (p. 477)
- Resetting settings in the settings menu (p. 176)
- Overview of the centre display (p. 33)

## Technical specifications for media

Compatible file formats, audio specifications and USB.

### Audio files

Format	File extension	Codec
MP3	.mp3	MPEG1 Layer III, MPEG2 Layer III, MP3 Pro (mp3 compatible), MP3 HD (mp3 compatible)
AAC	.m4a, .m4b, .aac	AAC LC (MPEG-4 part III Audio), HE-AAC (aacPlus v1/v2)
WMA	.wma	WMA8/9, WMA9/10 Pro
WAV	.wav	LPCM
FLAC	.flac	FLAC

### Video files

Format	File extension
MP4	.mp4, m4v
MPEG-PS	.mpg, .mp2, .mpeg, .m1v





Format	File extension
AVI	.avi
AVI (DivX)	.avi, divx
ASF	.asf, .wmv
MKV	.mkv

### Subtitles

Format	File extension
SubViewer	.sub
SubRip	.srt
SSA	.ssa

### DivX®

DivX certified devices have been tested for high-quality DivX (.divx, .avi) video playback. When you see the DivX logo, you have the freedom to play DivX films.

Profile	DivX Home Theater
Video codec	DivX, MPEG-4
Resolution	720x576
Bit rate	4.8Mbps
Frame rate	30 fps
File extension	.divx, .avi

Max file size	4 GB
Audio codec	MP3, AC3
Subtitles	XSUB
Special functions	Multiple subtitles, multiple audio, resume play
Reference	Meets all requirements of the DivX Home Theater profile. Visit <a href="http://divx.com">divx.com</a> for more information and software tools to convert your files into DivX Home Theater video.

### Storage on USB device

In order for the system to read the USB device correctly, the following specifications must be followed. No folder structure will be shown in the centre display during playback.

	Max number
Files	15000
Folders	1000
Folder levels	8
Playlists	100
Items in a playlist	1000
Subfolders	No limit

### Technical specification for USB connector

- Type A socket
- Version 2.0
- Voltage supply 5 V
- Current supply max. 2.1 A

### Related information

- Media player (p. 467)
- Media playback (p. 467)

## Phone

A mobile phone equipped with Bluetooth can be connected wirelessly to the car's built-in hands-free system.

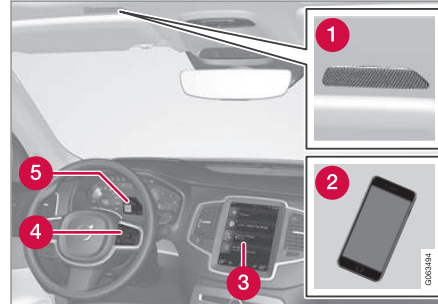
The audio and media system acts as a handsfree, with the facility to remotely control a selection of the mobile phone's functions. The mobile phone can still be operated with its own keys if it is connected to the car.

When a mobile phone has been paired with the car and connected, it can be used make calls, send/receive messages, stream media and used as an Internet connection.



The phone is operated from the centre display, but some operations are also available via voice recognition and the app menu, which are accessed from the right-hand steering wheel keypad.

## Overview



- 1 Microphone.
- 2 Mobile phone.
- 3 Phone operation from centre display.
- 4 Keypad for operating phone functions that are shown in the driver display and voice recognition.
- 5 Driver display.

## Related information

- Connect phone (p. 482)
- Connecting/disconnecting the phone (p. 483)
- Managing phone calls (p. 484)
- Managing text messages (p. 485)
- Settings for phone (p. 487)

- Settings for text messages (p. 487)
- Bluetooth® settings (p. 487)
- Voice recognition (p. 117)
- Using the application menu in the driver display (p. 108)
- Media player (p. 467)

## Connect phone

Connect a Bluetooth-activated phone to the car to make calls, send/receive messages, stream media and connect the car to the Internet.


It is possible to have two Bluetooth devices connected at once, in which case one of them can only be streaming media. The most recently connected phone will automatically be connected to make calls, send/receive messages, stream media and provide an Internet connection. To change the use of the phone, see section "Bluetooth settings".

Connection is performed once per device. After connection, the Bluetooth device no longer needs to be visible/searchable but only needs to have Bluetooth activated. To connect the car to the Internet via a phone, tethering must be activated on the phone. A maximum of 20 connected Bluetooth devices can be stored in the car.

There are two options for connecting. Either search the phone from the car or search the car from the phone.

### Option 1 - search phone from car

1. Make the phone searchable/visible via Bluetooth.
2. To connect the car to the Internet via the phone's Bluetooth, activate tethering (portable/personal hotspot) via Bluetooth on the phone.

3. Open the subview for phone.
  - If there is no phone connected to the car, tap on **Add phone**.
  - If there is a phone connected to the car, tap on **Change** . In the pop-up window, tap on **Add phone**.


> Available Bluetooth devices are listed. The list is updated as new devices are detected.
4. Tap on the name of the phone to be connected.
5. Check that the specified number code in the car matches that in the phone. In which case, choose to accept in both places.
6. On the phone, choose to accept or reject any options for phone contacts and messages.



#### NOTE

- The message function must be activated in certain phones.
- Not all mobile phones are fully compatible and may therefore not show contacts and messages in the car.

### Option 2 - search car from phone

1. Open the subview for phone.
  - If there is no phone connected to the car, tap on **Add phone** → **Make car discoverable**.
  - If there is a phone connected to the car, tap on **Change** . In the pop-up window, tap on **Add phone** → **Make car discoverable**.
2. Activate Bluetooth on the phone.
3. To connect the car to the Internet via the phone's Bluetooth, activate tethering (portable/personal hotspot) via Bluetooth on the phone.
4. Search on the phone for Bluetooth devices.
  - > Available Bluetooth devices are listed.
5. Select the name of the car on the phone.
6. Check that the specified number code in the car matches that in the external device. In which case, choose to accept in both places.
7. On the phone, choose to accept or reject any options for phone contacts and messages.



**i NOTE**

- The message function must be activated in certain phones.
- Not all mobile phones are fully compatible and may therefore not show contacts and messages in the car.

**i NOTE**

If the phone's operating system is updated then the connection may be broken. In which case, delete the phone from the car and then connect again.

**Compatible phones**

Many phones on the market now have wireless Bluetooth technology, but not all of them are fully compatible with the car. For compatibility, see support.volvocars.com.

**Related information**

- Phone (p. 481)
- Connecting/disconnecting the phone (p. 483)
- Bluetooth® settings (p. 487)
- Managing phone calls (p. 484)
- Managing text messages (p. 485)
- Online car\* (p. 488)

**Connecting/disconnecting the phone**

Connect, change or disconnect a connected phone.

**Connecting the phone automatically**

It is only the two last connected phones that can be connected automatically.

1. Activate Bluetooth in the phone before setting the car in ignition position I.

To connect the car to the Internet at the same time, tethering (portable/personal hot-spot) in the phone must be activated.

2. Set the car in ignition position I or higher.
  - > The phone will connect.

**Connect the phone manually**

1. Activate Bluetooth on the phone.

To connect the car to the Internet at the same time, tethering (portable/personal hot-spot) in the phone must be activated.


2. Open the subview for phone.
  - > Connected phones are listed.
3. Tap on the name of the phone to be connected.
  - > The phone will connect.

**Disconnecting the phone**

- Deactivate Bluetooth on the phone.

When the phone is out of range of the car it is automatically disconnected. If disconnection occurs during an active call then the call can be continued on the phone.

**Changing phones**

1. Open the subview for phone.
2. Press **Change** .
  - > Available Bluetooth devices are listed.
3. Tap on the phone to be connected.

**Removing a phone**

1. Open the subview for phone.
2. Press **Settings** → **Communication** → **Bluetooth Devices**.
  - > A list of connected Bluetooth devices is displayed.
3. Tap on the phone to be removed.
4. Tap on **Remove device** and confirm your selection.
  - > The phone is no longer connected with the car.

**Related information**

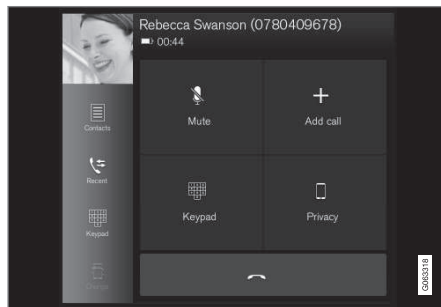
- Phone (p. 481)
- Connect phone (p. 482)
- Settings for phone (p. 487)
- Bluetooth® settings (p. 487)



- Ignition positions (p. 409)
- Online car\* (p. 488)

## Managing phone calls

Call handling in the car for a Bluetooth-connected phone.



Generic illustration.

### Making phone calls

1. Open the subview for phone.
2. Select call from: call history, enter number using the keypad or via the contact list. It is possible to search or browse in the contact list. Tap on ☆ in the contact list in order to add a contact under **Favourites**.
3. Tap on **Call** or 📞.
4. Tap on **End call** to end the call.

You can also make calls from the call log via the app menu, which is accessed from the right-hand steering wheel keypad 📞.

### Making multi-party calls

During a call:

1. Press **Add call**.
2. Choose to make a call from the call log, favourites or the contact list.
3. Tap on an entry/row in the call log, or tap on 📞 alongside the contact in the contact list.
4. Tap on **Swap call** to switch between the parties.
5. Tap on **End call** to end the active call.

### Conference calls

During an active multi-party call:

1. Tap on **Join calls** to merge the active multi-party call.
2. Tap on **End call** to end the call.

### Incoming phone calls

Incoming phone calls are shown in the driver display and the centre display. Manage the call on the right-hand steering wheel keypad or in the centre display.

1. Tap on **Answer/Reject**.
2. Tap on **End call** to end the call.

### Incoming phone call during an active call

1. Tap on **Answer/Reject**.
2. Tap on **End call** to end the call.

### Private call

- During the current call, press **Privacy** and select setting:
  - **Switch to mobile phone** - the hands-free function is disconnected and the call continues on your mobile phone.
  - **Driver focused** - the microphone in the roof on the passenger side is switched off and the call continues with the car's handsfree function.

### Related information

- Phone (p. 481)
- Voice recognition control of the phone (p. 120)
- Using the application menu in the driver display (p. 108)
- Using the keyboard in the centre display (p. 49)
- Settings for phone (p. 487)

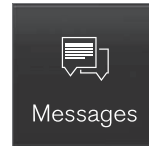
### Managing text messages

Message handling in the car for a Bluetooth-connected phone.

In some phones, the message function must be activated. Not all mobile phones are compatible. In such cases, they cannot display contacts and messages in the car. For compatibility, see support.volvocars.com.

### Managing text messages in the centre display

Text messages are only shown in the centre display if the setting is selected; see the section "Settings for text messages".



Press **Messages** in the app view to manage text messages in the centre display.

### Reading a text message in the centre display

- Press **Read out** to get the message read aloud.

### Sending text messages in the centre display

1. It is not possible to reply to a message or create a new message.
  - Reply to message — tap on the contact whose message you wish to reply to, then tap on **Answer**.
  - To create a new message – press **Create new** and then +. Select a contact or enter a number.
2. Compose the message.
3. Press **Send**.

### Managing text messages in the driver display

Text messages are only shown in the driver display if the setting is selected; see the section "Settings for text messages".

### Reading a new text message in the driver display

- To have the message read aloud – select **Read out** with the steering wheel keypad.

### Dictating a reply in the driver display

After the text message is read aloud, a brief reply can be created through dictation.

- Press **Answer** with the steering wheel keypad. A dictation dialogue starts. For this function to work, the car must be connected to the Internet.

## ◀◀ Message notification

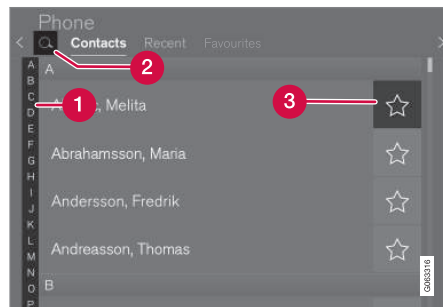
For notification settings, see section "Settings for text messages".

### Related information

- Phone (p. 481)
- Settings for text messages (p. 487)
- Settings for phone (p. 487)
- Voice recognition control of the phone (p. 120)
- Using the keyboard in the centre display (p. 49)
- Connecting the car (p. 488)

## Managing the phone book

Contact handling in the car for a Bluetooth-connected phone.



- 1 Browse between the letters and # to find a matching contact. Depending on existing contacts in the phone book, only matching letters are shown.
- 2 **Search contacts** - tap on to search for a phone number or name in the contact list.
- 3 **Favourites** - tap on to add/remove a contact to/from the favourites list.

### NOTE

Only contacts from an active Bluetooth-connected phone are shown in the centre display. Up to 3000 contacts can be shown.

## Sorting

The contact list is sorted in alphabetical order where special characters and numbers are sorted under #. The sort order can be made by first or last name, see the section "Settings for phone" for more information.

### Related information

- Phone (p. 481)
- Voice recognition control of the phone (p. 120)
- Using the application menu in the driver display (p. 108)
- Using the keyboard in the centre display (p. 49)
- Settings for phone (p. 487)

## Settings for phone

Settings for connected phone.

### Phone

1. Press **Settings** in top view.
2. Press **Communication → Phone** and select settings:
  - **Ringtones** - select ringtone. It is possible to use a ringtone from the phone or the car. Some phones are not fully compatible and their ringtones may therefore not be available for use in the car. For compatibility, see support.volvocars.com.
  - **Sort order for contacts** - select sort order of contact list.

For call notifications in the head-up display\*, see section "Head-up display".

### Related information

- Settings for text messages (p. 487)
- Bluetooth® settings (p. 487)
- Phone (p. 481)
- Connect phone (p. 482)
- Head-up display\* (p. 114)

## Settings for text messages

Settings for text messages on connected phone.

### Message

1. Press **Settings** in top view.
2. Press **Communication → Text Messages** and select settings:
  - **Notification in centre display** - shows message notifications in the centre display's status bar.
  - **Notification in driver display** - shows notifications in the driver display. When notifications in the driver display are active, it is possible to manage incoming messages with the steering wheel's right-hand keypad.
  - **Text message tone** - select tone for incoming text message.

### Related information

- Phone (p. 481)
- Connect phone (p. 482)
- Managing text messages (p. 485)
- Settings for phone (p. 487)

## Bluetooth® settings

Settings for Bluetooth-connected devices.

### Bluetooth

1. Press **Settings** in top view.
2. Press **Communication → Bluetooth Devices** and select settings:
  - **Add device** - starts the pairing of a new device.
  - **Previously paired devices** - lists connected devices.
  - **Remove device** - removes the connected device.
  - **Allowed services for this device** - sets device usage options: calling, sending/receiving messages, streaming media and as Internet connection.
  - **Internet connection** - connects the car to the Internet via the device's Bluetooth connection.

### Related information

- Online car\* (p. 488)
- Phone (p. 481)
- Connect phone (p. 482)
- Media player (p. 467)

## Online car\*

An online car provides the ability to use e.g. Internet radio and music services via apps as well as contact dealers in the car and download software.

The car is connected via Bluetooth, Wi-Fi or with the car's built-in modem\*.

When the car is connected to the Internet, its Internet connection (Wi-Fi hotspot) can be shared to allow other devices to use the Internet connection<sup>4</sup>.

Connection status is indicated by the symbol in the centre display's status bar.



## Related information

- Connecting the car (p. 488)
- Apps (p. 460)
- Book service and repair (p. 532)
- System updates (p. 535)
- Volvo ID (p. 23)
- Symbols in the centre display's status bar (p. 45)
- Sharing Internet via Wi-Fi hotspot (p. 490)

## Connecting the car

Connect the car to the phone via Bluetooth, Wi-Fi or with the car's built-in modem\*.

The mobile phone and network operator must support tethering (sharing the Internet connection) and the plan must include data.

### **i** NOTE

Data is transferred when using the internet (data traffic), which can have a cost.

Activation of data roaming can result in further charges.

Contact your network operator about the cost for data traffic.

### **i** NOTE

When using Apple CarPlay, it is only possible to connect the car to the Internet using Wi-Fi or car modem\*.

### **i** NOTE

When using Android Auto, it is possible to connect the car to the Internet using Wi-Fi, Bluetooth or car modem\*.

<sup>4</sup> This does not apply in the case of connection with Wi-Fi.

Read **Terms and Conditions for Services** and **Customer Privacy Policy** at [support.volvocars.com](http://support.volvocars.com) before connecting.

### Connecting with Bluetooth

See Connecting a phone.

### Connecting with Wi-Fi



1. Activate tethering (portable/personal hot-spot) on the mobile phone.
2. Press **Settings** in top view.
3. Continue to **Communication** → **Wi-Fi**.
4. Activate/deactivate by ticking/unticking the box for Wi-Fi.
5. Tap on the network name of the network to be connected.
6. Enter the network password.
7. If another connection source has been used in the past - confirm the option to change connection.
  - > The car connects to the network.

Note that certain phones switch off tethering after the contact with the car has been disconnected, e.g. when leaving the car and until the next time it is used. The tethering in the phone therefore needs to be reactivated the next time it is used.

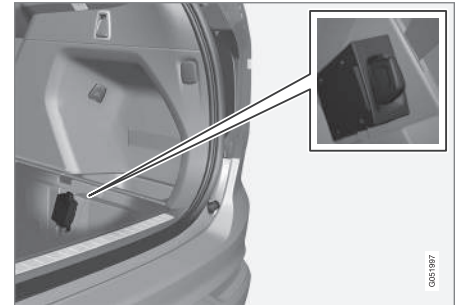
When a phone is connected to the car, it is saved for future use. When the maximum number of saved phones (50) is reached, the first connected phones are deleted. To show the list of saved networks or manually delete saved networks, go to **Settings** → **Communication** → **Wi-Fi** → **Saved networks**.

For network connection requirements, see the section "Technology and security for Wi-Fi".

### Connecting with car modem\*<sup>5</sup>

When the car is connected to the Internet via the car modem, Volvo On Call services will use this connection.

1.



- Fit a personal SIM card into the holder.
2. Press **Settings** in top view.
3. Press **Communication** → **Car Modem Internet**.
4. Activate/deactivate by ticking/unticking the box for **Car modem Internet**.
5. If another connection source has been used in the past - confirm the option to change connection.
6. Enter the SIM card's PIN code.
  - > The car connects to the network.

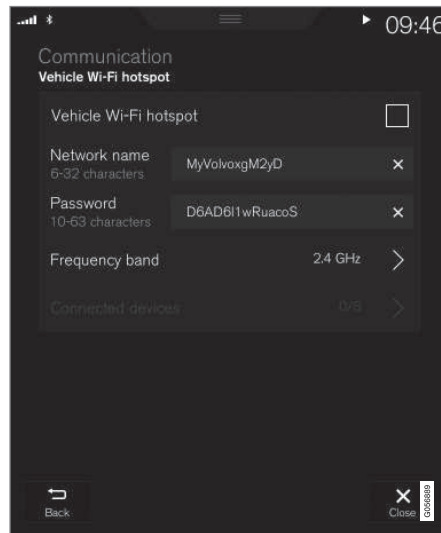
<sup>5</sup> Only cars with Volvo On Call.

◀◀ **Related information**

- Online car\* (p. 488)
- Connect phone (p. 482)
- Symbols in the centre display's status bar (p. 45)
- Remove Wi-Fi network (p. 492)
- Wi-Fi technologies and security (p. 492)
- No or poor connection (p. 491)
- Settings for car modem\* (p. 492)
- Bluetooth® settings (p. 487)
- Apple CarPlay\* (p. 475)

**Sharing Internet via Wi-Fi hotspot**

When the car is connected to the Internet, its Internet connection can be shared to allow other devices to use the Internet connection.<sup>6</sup>



The network operator (SIM card) must support tethering (sharing of the Internet connection).

1. Press **Settings** in top view.

2. Press **Communication** → **Car Wi-Fi Hotspot**.
3. Tap on **Network name** and name the shared connection.
4. Tap on **Password** and select a password to be entered on connecting devices.
5. Tap on **Frequency band** and select the frequency on which the hotspot is to transmit data. Note that selection of frequency band is not available in all markets.
6. Activate/deactivate by ticking/unticking the box for **Car Wi-Fi Hotspot**.
7. If Wi-Fi has previously been used as a connection source, confirm the option to change connection.
  - > It is now possible for external devices to connect to the car's tethering (Wi-Fi hotspot).

**i NOTE**

Activation of Wi-Fi-hotspot can result in further charges from your network operator. Contact your network operator about the cost for data traffic.

Connection status is indicated by the symbol in the centre display's status bar.

<sup>6</sup> This does not apply in the case of connection with Wi-Fi.



Press **Connected devices** to see a list of the currently connected devices.

### Related information

- Online car\* (p. 488)
- Wi-Fi technologies and security (p. 492)
- Symbols in the centre display's status bar (p. 45)
- No or poor connection (p. 491)

## No or poor connection

### Factors affecting the network.

The amount of data transferred is dependent on the services or apps in use in the car. For example, streaming audio can require large amounts of data which requires a good connection and good signal strength.

### Mobile phone to car

The speed of the connection may vary depending on the location of the mobile phone in the car. Move the mobile phone handset closer to the centre display in order to increase the signal strength. Ensure that there is no source of interference in between.

### Mobile phone to network

The speed of the mobile network varies depending on the coverage in the present location. Poor network coverage may occur, for example in tunnels, in mountainous country, in deep valleys or indoors. The speed also depends on the agreement you have with your network.

#### **NOTE**

In the event of problems with data traffic, contact your network operator.

### Restarting the phone

If there are problems with the connection then it may help to restart the phone.

### Related information

- Online car\* (p. 488)
- Connecting the car (p. 488)

## Remove Wi-Fi network

Removing a network that is not to be used.

1. Press **Settings** in top view.
2. Continue to **Communication** → **Wi-Fi** → **Saved networks**.
3. Tap on **Forget** alongside the network to be removed.
4. Confirm the selection.
  - > The car will no longer connect to the network in future.

## Remove all networks

All networks can be removed simultaneously by restoring factory settings. Please note that all user data and system settings are reset to original factory settings.

## Related information

- Online car\* (p. 488)
- Connecting the car (p. 488)
- Resetting settings in the settings menu (p. 176)

## Wi-Fi technologies and security

Possible network types to connect to.

It is only possible to connect to the following types of network:

- Frequency — 2.4 or 5 GHz<sup>7</sup>.
- Standards — 802.11 a/b/g/n.
- Security type - WPA2-AES-CCMP.

The car's Wi-Fi system is designed to handle Wi-Fi devices inside the car.

If several devices operate on the frequency at the same time then it may result in reduced performance.

## Related information

- Online car\* (p. 488)
- Connecting the car (p. 488)
- Sharing Internet via Wi-Fi hotspot (p. 490)
- No or poor connection (p. 491)

## Settings for car modem\*<sup>8</sup>

The car is equipped with a modem that can be used to connect the car to the Internet. It is also possible to share the Internet connection via Wi-Fi.

1. Press **Settings** in top view.
2. Press **Communication** → **Car Modem Internet** and select settings:
  - **Car modem Internet** - select whether to use the car modem as Internet connection.
  - **Data usage** - tap on **Reset** resets the counters for received and sent data volume.
  - **Network**
    - Select network operator** - automatic or manual selection of network operator.
    - Data roaming** - if the box is ticked, the car modem will attempt to connect to the Internet when the car is abroad and outside its home network. Note that this may result in heavy costs. Check your roaming agreement for data traffic abroad with your network provider in your home country.
  - **SIM card PIN**

<sup>7</sup> Selection of frequency is not available on all markets.

<sup>8</sup> Only cars with Volvo On Call.

**Change PIN** - a maximum of 4 digits can be entered.

**Disable PIN** - select whether the PIN code shall be required for access to the SIM card.

- **Send request code** — used e.g. to top up or check the balance on a prepaid card. Functionality depends on the provider.

### Related information

- Online car\* (p. 488)
- Sharing Internet via Wi-Fi hotspot (p. 490)

## Downloading, updating and uninstalling apps

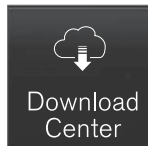
Once the car is connected, it is possible to download new apps, update existing apps or uninstall apps.

### NOTE

Data download may affect other services that transmit data, e.g. Internet radio. If the effect on other services is experienced as disruptive then the download can be interrupted. Alternatively, it may be appropriate to switch off or interrupt other services.

### NOTE

When downloading using a mobile phone, note the data download costs.



The apps are managed via **Download Centre** in application view.

To be able to download, update or uninstall apps, the car must be online.

### Downloading an app

1. Open the app **Download Centre**.

2. Select **New apps** in order to open a list of apps that are available but not installed in the car.
3. Tap anywhere on the row for an app in order to expand in the list and get more information about the app.
4. Select **Install** in order to start the download and installation of the desired app.
  - > The status of the download and installation is shown while it is in progress.

A message is shown if a download cannot be started for the moment. The app will remain in the list and it is possible to try to start a download again.

### Cancelling a download

- Tap on **Abort** to cancel a download in progress.

Note that only the download can be cancelled — installation cannot be cancelled once it has begun.

### Updating apps

If an app is being used during an ongoing update, it will be restarted in order for the installation to be completed.

### Update all

1. Open the app **Download Centre**.
2. Select **Install all**.
  - > Updating is started.



#### ◀ Update some

1. Open the app **Download Centre**.
2. Select **Application updates** in order to open a list of all available updates.
3. Locate the desired app and select **Install**.  
> Updating is started.

#### Uninstalling an app

An app that is being used must be closed in order for the uninstallation to be completed.

1. Open the app **Download Centre**.
2. Select **Application updates** in order to open a list of all installed apps.
3. Locate the desired app and select **Uninstall** in order to start the uninstallation of the app.  
> When the app has been uninstalled, it disappears from the list.

#### Related information

- Online car\* (p. 488)
- Radio (p. 462)
- Media player (p. 467)
- System updates (p. 535)

#### Type approval

##### USA

FCC ID: LTQIHU4

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.