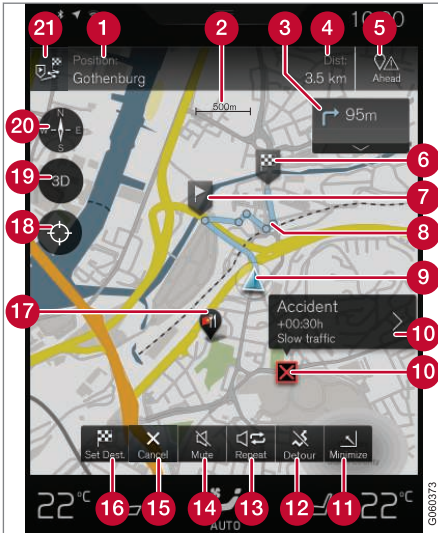




SENSUS NAVIGATION



Text and symbols on the map

- 1 The car's current position
- 2 Map scale
- 3 List of the itinerary's guidance points
- 4 Destination and time of arrival/remaining time to arrival, or current position and distance to destination
- 5 List of the itinerary's points of interest (Point of Interest - POI) and traffic information

- 6 Destination/final destination
- 7 Intermediate destination
- 8 Guidance point
- 9 Car on planned route
- 10 Traffic information
- 11 Minimises (expanded view) or maximises (full screen) map image
- 12 Calculates detour
- 13 Repeats current voice guidance
- 14 Voice guidance temporarily On/Off
- 15 Cancels guidance
- 16 Enter destination/intermediate destination
- 17 Point of interest (Point of Interest - POI)
- 18 Resets the map to follow the car
- 19 Changes map display between 2D and 3D
- 20 Compass + Changes between north and travel direction up
- 21 Itinerary and alternative route

SENSUS NAVIGATION

Sensus Navigation is a satellite based traffic information and route guidance system.

Development work is constantly in progress to improve our product. Modifications may mean that information, descriptions and illustrations in

this supplement differ from the equipment in the car. We reserve the right to make modifications without prior notice.

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INTRODUCTION

Quick guide to map navigation

The car's electrical system is activated automatically when the driver's door is opened.

Activating navigation



1 Home button

2 Menu row Navigation

If the navigation system does not show a map on the centre display - tap on the uppermost menu row **Navigation** (2).

If the centre display does not show the **Navigation** menu row - press the Home button (1) and then on the **Navigation** menu row (2).

Then a map of the current area is shown with the car symbolised by a blue triangle.

⚠ WARNING

Observe the following.

- Direct all your attention to the road and make sure that all your concentration is on driving.
- Follow applicable traffic legislation and drive with good judgment.
- Due to weather conditions or time of year affecting the road conditions, some recommendations may be less reliable.

Deactivating navigation

The navigation system cannot be switched off but always works in the background - it is only switched off when the driver locks and leaves the car.

i NOTE

The navigation system is also available when the engine is switched off. When the battery level gets too low the system switches off.

Related information

- Displays and operating controls for map navigation (p. 7)
- Simple guidance to a destination (p. 6)

Simple guidance to a destination

Setting guidance to the desired destination without having to first read the whole owner's manual.

Selecting a destination on the map

1. Tap on the **Navigation** subview.



2. Tap to maximise the map image.
3. Find the desired position on the map.
4. Tap and hold on the position.
 - > An icon is created and a menu is shown.
5. Press **Go here**.
 - > Guidance starts.

Displays and operating controls for map navigation

Sensus Navigation is presented and operated in several different ways, e.g. via the driver display, head-up display and voice commands.

Centre display



All operation of the navigation system can take place in the centre display, e.g. map settings and setting destinations.

If the map image is not shown in the centre display - tap on the home view's top menu row **Navigation**.

The driver display

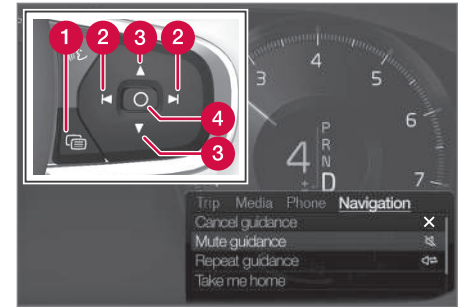


The map is only shown in the 12" driver display.

During driving the driver is guided by voice guidance and instructions on the driver display. Map display in the driver display can also be active without a set destination.

The right-hand steering wheel keypad and the driver display

The right-hand steering wheel buttons can be used to manage some of the map navigation functions, e.g. **Take me home** and **Cancel guidance**. If a message is shown the driver display, it must first be acknowledged for the menu to be shown.



- 1 Opening/closing the menu. The menu is closed automatically after a period of inactivity or with certain options.
- 2 Browsing between menus.
- 3 Browsing between menu options.
- 4 Confirm or highlight an option.

◀◀ Head-up display*



Map navigation on the windshield.

The driver can also receive guidance and information from the navigation system in the head-up display on the bottom of the windshield.

Display of navigation information can be switched off and the position of the information field can be adjusted.

Voice recognition

Many functions can also be controlled with voice commands.



Press the steering wheel button, wait for the signal, then say, for example, "Drive **Home**".

Related information

- Specify destination with free text searching (p. 21)
- Voice recognition and map navigation (p. 15)
- Voice recognition (p. 14)
- Using voice recognition (p. 14)
- Settings for voice recognition (p. 16)
- Activating/deactivating map display in the driver display (p. 40)

Common operations during map navigation

Some common operations during map navigation are described below.

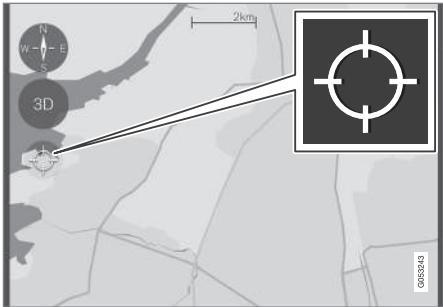
- Where am I?
- Find the car symbol on the map
- Driving direction or north up on the map
- 2D or 3D display
- Zoom
- Scroll
- Switching heading display
- Return from a menu

Where am I?

What geographic position does the car have now?

- Press the map's car symbol (blue triangle) - the information is shown directly on the map.

Find the car symbol on the map



Press the crosshairs symbol.

After zooming in and out and scrolling around on the map it can sometimes be hard to find your way back to the car's position on the map. This is the simplest way to find it:

- Press the crosshairs symbol - the map is then reset and thereafter follows the car symbol.

Driving direction or north up on the map



Press the compass to change the car symbol's movement on the map.

The driver can choose between two ways to represent the car's movement in relation to the map:

- The map is always shown with north upwards on the centre display - the car symbol moves in its true compass direction on the map. If the car symbol moves to the left on the map then the car is driving westwards.
- The car symbol always points upwards on the centre display - the map rotates under the car symbol depending on how the car turns. The compass symbol indicates the direction of north (N) on the map, and the centre of the compass shows the direction in which the front of the car is pointing (in this case NE = Northeast).

Compass symbols	Compass direction
N	North
NE	NorthEast
E	East
SE	SouthEast
S	South
SW	SouthWest
W	West
NW	NorthWest

2D or 3D display



Press 2D/3D to change between 2D and 3D display.

In 3D display, the car's heading is always upwards on the centre display - the map rotates



INTRODUCTION

◀ around the car symbol depending on how the car turns.

The compass symbol indicates which direction north is (N) on the map, and the centre of the compass shows the direction in which the front of the car is pointing.

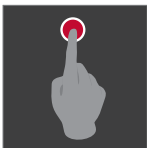
The map scale is not shown in the 3D mode.

2D display is described under the previous heading "Driving direction or north up on the map".

Zoom

Zoom in

Make the map bigger like this:



Double-tap the centre display with one finger.

or



Touch the centre display with two fingers close together, then spread them apart.

Zoom out

Make the map smaller like this:



Tap once on the centre display with two fingers spread apart.

or



Touch the centre display with two fingers spread apart, then draw them together.

Scroll

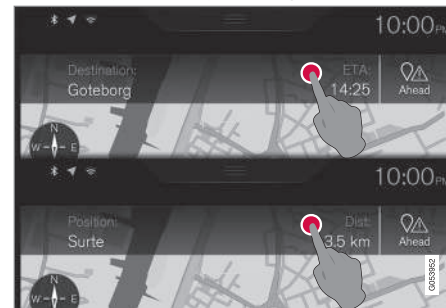


Place one finger on the map, swipe in the desired direction, and release.

The scroll function is only possible with the map in the maximum mode, not when it is minimised.

mised.

Switching heading display



Press here to change the map heading.

Choose between the following displays as the heading on the map:

- Specification of destination (Destination) and arrival time (ETA) or remaining time to arrival (RTA). To select ETA or RTA, see the section "Route settings".

or

- Definition of the current position (Position) and distance to the destination (Dist).

Change of heading is only possible with the map in the maximum mode, not when it is minimised.

Finding the way back to the map view



- ① Home button
- ② Menu row Navigation

If the driver is "a long way away" in another part of the system and wishes to quickly return to the map view, this method can be used:

1. Press the centre display's Home button (1).
2. If the centre display shows the home view instead of the map view - tap on the uppermost menu row **Navigation** (2).

Related information

- Activating/deactivating map display in the driver display (p. 40)
- Sensus Navigation settings (p. 40)
- Route settings (p. 43)

VOICE RECOGNITION

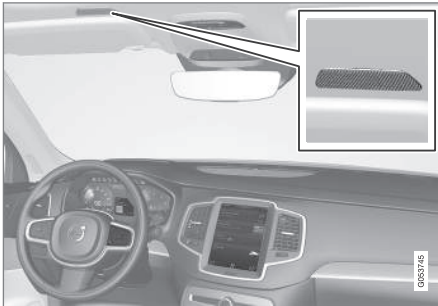
Voice recognition¹

The voice recognition system allows the driver to use voice recognition to control certain functions of the media player, Bluetooth-connected phone, the climate system and Volvo's navigation system*.

Voice commands offer convenience and help the driver to avoid being distracted, and instead concentrate on driving and focus attention on the road and the traffic conditions.

WARNING

The driver always holds overall responsibility for driving the vehicle in a safe manner and complying with all applicable rules of the road.



Voice control system microphone

Voice recognition control takes place in dialogue form with spoken commands from the user and verbal response from the system. The voice recognition system uses the same microphone as the Bluetooth handsfree system and the voice recognition system's replies come via the car's speakers. In some cases, a text message is also shown in the driver display. Functions are controlled from the right-hand steering wheel keypad. Settings are made via the centre display.

System updating

The voice recognition system is continuously improved. Download updates for optimal performance, see support.volvocars.com.


Related information

- Using voice recognition (p. 14)
- Voice recognition and map navigation (p. 15)
- Settings for voice recognition (p. 16)

Using voice recognition²

Basic instructions for using voice recognition control.





Depress the steering wheel button for voice recognition  to activate the system and initiate a dialogue using voice commands.

Remember the following during communication:

- For a command - speak after the tone in a normal voice at normal speed.
- Do not speak while the system is replying (the system cannot understand commands during this time).
- Avoid background noise in the passenger compartment by having the doors, windows and sunroof closed.

Voice recognition can be deactivated as follows:


- by saying "**Cancel**".
- with a long press on the voice recognition button on the steering wheel .

To speed up communication and skip the prompts from the system, press the steering wheel button for voice recognition  when the system voice is speaking and say the next command.

¹ Applies to certain markets.

* Option/accessory.

Example of voice recognition control

Press , say "Call [Forename] [Surname] [number category]" - calls the selected contact from the phone book if the contact has more than one phone number (e.g. home, mobile, work), e.g.:

Press , say "Call Robin Smith Mobile".

Commands/phrases

The following commands are always available for use:

- **"Repeat"** - repeats the last voice instruction in the ongoing dialogue.
- **"Cancel"** - discontinue the dialogue.
- **"Help"** - starts a help dialogue. The system replies with the commands available in the current situation, a prompt or an example.

Commands for specific functions are described in the corresponding sections, e.g. Voice recognition control of the phone.

Digits

The number commands are stated differently depending on the function to be controlled:

- **Phone numbers and postcodes** must be spoken individually, number by number, e.g.

zero three one two two four four three
(03122443).


- **House numbers** can be spoken individually or in groups, e.g. two two or twenty-two (22). For English and Dutch, several groups can be said in sequence, e.g. twenty-two twenty-two (22 22). For English, double or triple can be used, e.g. double zero (00). Numbers can be given within the range 0-2300.
- **Frequencies** can be spoken as ninety eight point eight (98.8), a hundred and four point two or hundred four point two (104.2).

Related information

- Voice recognition (p. 14)
- Settings for voice recognition (p. 16)

Voice recognition and map navigation³

Command for voice control of the navigation system, e.g. set destination or pause guidance.

Tap on  and say one of the following commands:

- **"Navigation"** - Initiates a navigation dialogue and shows examples of commands.
- **"Take me home"** - Guidance is given to the **Home** position.
- **"Go to [City]"** - Specifies a city as a destination. Example "Drive to London".
- **"Go to [Address]"** - Specifies an address as a destination. An address must contain city and street. Example "Drive to 5 King Street".
- **"Add intersection"** - Starts a dialogue where two streets must be specified. The intersection point of the specified streets then becomes the destination.
- **"Go to [Post code]"** - Specifies a post code as a destination. Example "Drive to 1 2 3 4 5".
- **"Go to [contact]"** - Specifies an address from the phone book as a destination. Example "Drive to Robyn Smith".

² Applies to certain markets.

³ Applies to certain markets.

- **"Search [POI category]"** - Searches for adjacent points of interest (POI) within a certain category (e.g. restaurants).⁴ To have the list sorted along the route - say **"Along the route"** when the results list is shown.
- **"Search [POI category] in [City]"** - Searches for points of interest (POI) within a certain category and city. The results list is sorted according to the city's centre point. Example "Search for restaurant in London".
- **"Search [POI name]"**. Example "Search Hyde Park".
- **"Change country/Change state"**^{5, 6} - Changes the search area for navigation.
- **"Show favourites"** - Shows favoured positions in the driver display.
- **"Clear itinerary"** - Erases all the stored intermediate destinations and final destination in an itinerary.
- **"Repeat voice guidance"** - Repeats the last spoken guidance.
- **"Turn off voice guidance"** - Switches off voice guidance.
- **"Turn on voice guidance"** - Starts the switched-off voice guidance.

Related information

- Displays and operating controls for map navigation (p. 7)
- Voice recognition (p. 14)
- Using voice recognition (p. 14)
- Settings for voice recognition (p. 16)

Settings for voice recognition⁷


Several settings for the voice recognition system can be made.

1. Press **Settings** in top view.
2. Press **System** → **Voice Control** and select settings.
 - **Repeat Mode**
 - **Gender**
 - **Speech Rate**

Audio settings

1. Press **Settings** in top view.
2. Press **Sound** → **System Volumes** → **Voice Control** and select settings.

Change language

Voice recognition is not possible for all languages. Languages available for voice recognition are marked with an icon in the language list - .

Changing the language also affects menu, message and help texts.

1. Press **Settings** in top view.
2. Press **System** → **Language** and select language.

⁴ The user has the option of calling the POI or specifying it as a destination.

⁵ In European countries, "Country" is used instead of "State".

⁶ For Brazil and India, the search area is changed via the centre display.

⁷ Applies to certain markets.

Related information

- [Voice recognition \(p. 14\)](#)
- [Using voice recognition \(p. 14\)](#)
- [Voice recognition and map navigation \(p. 15\)](#)

SPECIFY A DESTINATION

General information about entering a destination

A destination can be entered in different ways.

The following methods are available for entering a destination:

- Press the map
- Free text searching and Map coordinates
- Latest selected destination
- Favourite marked positions from the library
- Positions saved in Library
- Point of interest (Point of Interest - POI)
- Address

Select one of the alternatives via the directions under the heading "Destination and Intermediate destinations" and follow the instructions.

Destination and Intermediate destinations

The first defined position will be the itinerary's **destination**.

The subsequent positions will be the itinerary's **intermediate destinations**.

An itinerary with its destination an intermediate destinations can afterwards easily be edited - see "Edit itinerary" in the "Itinerary and Alternative route" section.

Related information

- Itinerary and Alternative route (p. 30)
- Enter destination directly on the map (p. 20)
- Specify destination with free text searching (p. 21)
- Specifying a destination with Latest/Favourites/Library (p. 22)
- Specify destination with point of interest (Point of Interest - POI) (p. 24)
- Specifying a destination with an address (p. 25)

Enter destination directly on the map

A destination can be specified in different ways - marking with a finger on the map is one of them.

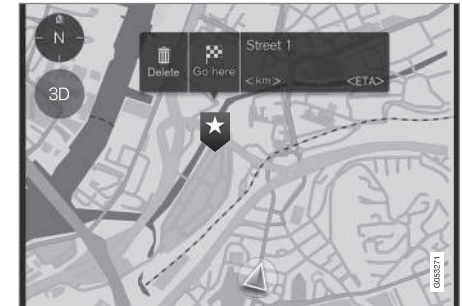
In many cases it is simplest to scroll to the desired position and tap it with your finger.



Check first that the map view is in the maximum mode: If that button is visible on the screen - press it to maximise the map view.

Then continue as follows:

1. Scroll the map until the desired position is in view.
2. Press and hold the position - an icon is created and a menu opens.



3. Select **Go here** - Guidance starts.

Delete the icon.

To erase the icon from the position:

- Select **Delete**

Adjust the position of the icon

To adjust the position of the icon:

1. Tap and hold the icon, drag it to the desired position, and release.

Related information


- General information about entering a destination (p. 20)

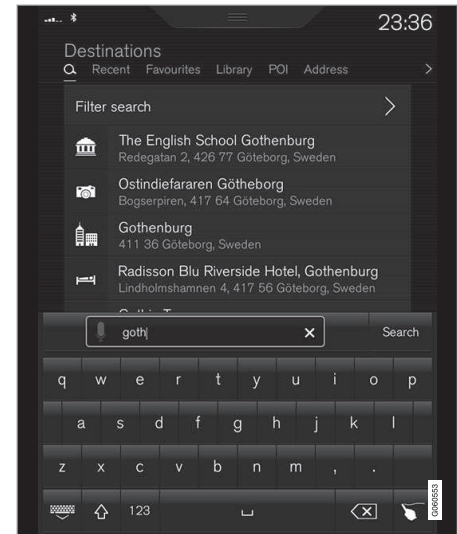
Specify destination with free text searching

A destination can be set in different ways - with free text searching, for example, a search can be made using phone numbers, postcodes, streets, cities, coordinates and points of interest (Point of Interest - POI).

The on-screen keyboard can be used to type most characters and to search for destinations. For a description, see the section "Using the keyboard in the centre display".



1. Tap on **Set dest.**, at the bottom of the screen.
 - > The map image changes to searching by address
2. Press .



3. Enter the search terms.
 - > Search hits are shown while characters are being entered.

SPECIFY A DESTINATION

- ◀ 4. **If the search gives the desired result** - tap on a search hit to show its information card and select to continue to use the search hit.

If the search gives too many results - tap on **Filter search** and select position to search around, and then select to continue to use the search hit:

- **Around car**
- **Around destination**
- **Along route**
- **Around point on map**

Coordinates

A destination can also be specified with map coordinates.

- Type, for example, "N 58.1234 E 12.5678" and tap **Search**.

The points of the compass **N**, **E**, **S** and **W** can be entered in different ways, e.g. in accordance with the following:

N 58,1234 E 12,5678 (with spaces)
N58,1234 E12,5678 (without spaces)
58,1234 N 12,5678 E (with the point of the compass after the coordinate)
58,1234-12,5678 (with hyphen without point of the compass)

You can use a comma [,] instead of a full stop [.] if you prefer.

Related information

- General information about entering a destination (p. 20)
- Displays and operating controls for map navigation (p. 7)
- Information cards on the map (p. 32)

Specifying a destination with Latest/Favourites/Library

A destination can be specified in different ways - selecting from a list is one of them.

To display these lists:



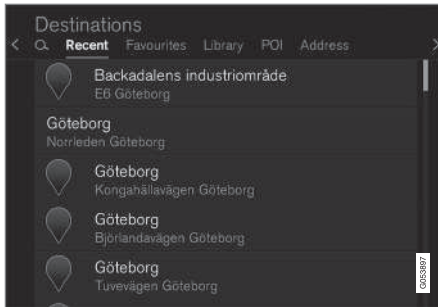
1. Tap on **Set dest.**, at the bottom of the screen - the map image changes to search via address.

2. Then select one of the following lists, at the top of the screen:

- **Recent**
- **Favourites**
- **Library**

After one alternative in a list has been marked, it is added as a destination by using either the **Start navigation** button or the **Add as waypoint** button.

Last

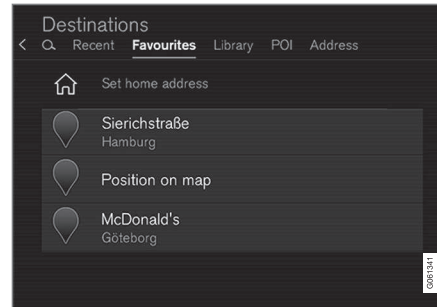


The latest searches are listed here. Scroll and select.

It is also available as a menu option on the driver display and is selected using the steering wheel's right-hand keypad. See "Displays and controls for map navigation".

The list can be edited using **Edit**.

Favourites



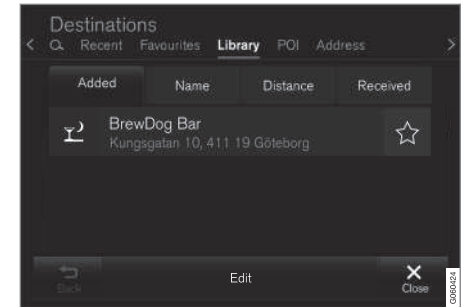
Favourite marked positions from the **Library** are listed here. Scroll and select.

A position erased from **Favourites** remains in the **Library**, but then with an "extinguished" star. To put it back here in **Favourites** - go to the **Library** and mark the position's star again.

A frequently used destination can be programmed and used with **Set home address**. A programmed **Home** destination is also available as a menu option in the driver display and is selected using the right-hand steering wheel keypad. See "Displays and controls".

The list can be edited using **Edit**.

Library



Saved positions and itineraries are collected here. The most recently saved appear uppermost on the list.

Tap on a position's star to select/deselect it as a favourite. A position with a highlighted/filled star is also listed under the **Favourites** heading.

A position that is erased in the **Library** will be also erased in **Favourites**.

The library can be sorted in various ways:

- **Added** - sorts in chronological order.
- **Name** - sorts in alphabetical order.
- **Distance** - sorts in distance from current position.
- **Received** - positions sent to the car using the "Send to Car" function are filtered out. New positions that have not been read have



SPECIFY A DESTINATION

- ◀◀ a BLUE marker. Markers are extinguished when the positions have been read. For more information see the "Save destination with Send to car" section.

Using **Edit**, one or more items in the list can be deleted.

Related information

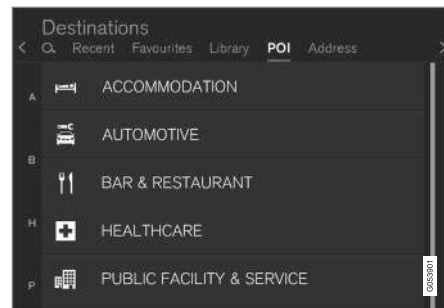
- Save the destination with "Send to Car" (p. 26)
- Displays and operating controls for map navigation (p. 7)
- General information about entering a destination (p. 20)

Specify destination with point of interest (Point of Interest - POI)

A destination can be specified in different ways - specifying a POI is one of them.



1. Tap on **Set dest.**, at the bottom of the screen - the map image changes to search via address with its search field.
2. Press **POI**.
3. Tap on the desired filter:
 - **Near the car**
 - **Near the destination**
 - **Close intermediate destinations**
 - **Along route**
 - **Around point on map**
4. Search for and select desired POI.
5. Select **Start navigation** or **Add as waypoint**.



Example of POIs.

Many POIs (e.g. restaurants) have subcategories (e.g. fast food).

In the "Map settings" section it is possible to select which POIs shall be shown on the map. All POIs that are available in the current region are listed there. That setting does not affect searching for POI as destination - even excluded POIs are shown as alternative destinations.

Certain POIs are first shown on the map when the scale is 1 km (1 mi).

i NOTE

- The symbol for a POI and the number of POIs varies between different markets.
- New symbols may appear and others disappear after a map data update. You can browse the menu system to find all the symbols used in the current map system.

Related information

- General information about entering a destination (p. 20)
- Map settings (p. 41)

Specifying a destination with an address

A destination can be specified in different ways - specifying an address is one of them.



Tap on **Set dest.**, at the bottom of the screen - the map image changes to search via address with its search field.

Example of a search field - they may vary depending on the market/region.

Note that the search options described here are not available for all markets/regions - the screen shows only the available search options for the current search area.

All fields do not need to be filled in. For a journey to a city, for example, it is sufficient to enter just

the country and city. Guidance is then given to the city's centre.

Select one of the available text field options and type using the centre display keyboard:

- **Country/State/Province**
- **City/Territory/Postcode**
- **Address**
- **Number**
- **Junction**

Related information

- General information about entering a destination (p. 20)
- Information cards on the map (p. 32)

SPECIFY A DESTINATION

Save the destination with "Send to Car"

A destination can be specified in different ways - using the Send to Car function (Send to Car) is one of them.

Send position to the car

Send to Car (Send to car) is a function that makes it possible to add a destination or position to the car's navigation system via a computer.

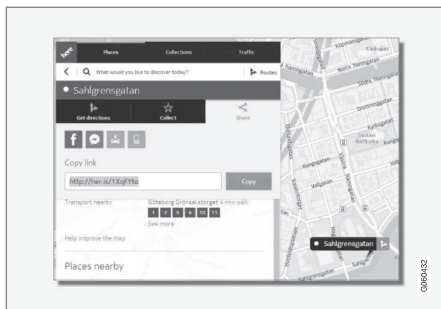
The Send to Car function can also be used from the Volvo On Call app. Volvo On Call can also be used if a destination/position needs to be sent to the car from the Volvo On Call service centre.

Note that the procedure shown here is only one example from one of several map service suppliers.

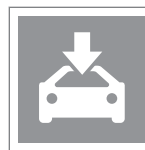
1. Connect with the computer to here.com.
> A map service is opened.
2. Search for desired position.



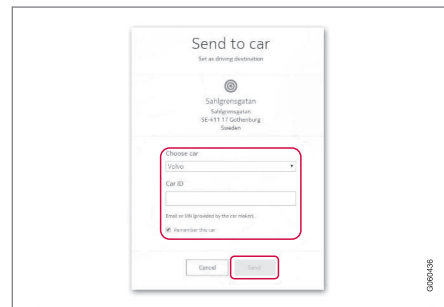
3. Right-click on the position and then click on the address.
> A side menu/information card is opened.



4. Click on **Share** in the side menu.



5. Click on **Send to car** in the side menu.
6. Select the car and enter the car's VIN number or the e-mail address that is registered to your Volvo ID. Then click on **Send**.



7. Click on **Done**.
> The position is sent to the car.

More information about other suppliers and the Send to Car function is available on the Volvo Cars support page (support.volvocars.com).

Receiving and using a position in the car

For the car to be able to receive data it must be connected to the Internet, see the description in the section "Connecting the car" in the owner's manual. If a position is sent to the car with Volvo On Call then the car's built-in modem is used to send the data, i.e. no separate Internet connection is required.

1. When a position has been received by the car a notification is shown in the centre display. Tap on the notification/symbol.
 - > An information card is opened.
2. Select the desired use of the position.

Using a saved position

Received positions are saved in the navigation system's library and can be used later, see "Set destination with Latest/Favourites/Library".

Related information

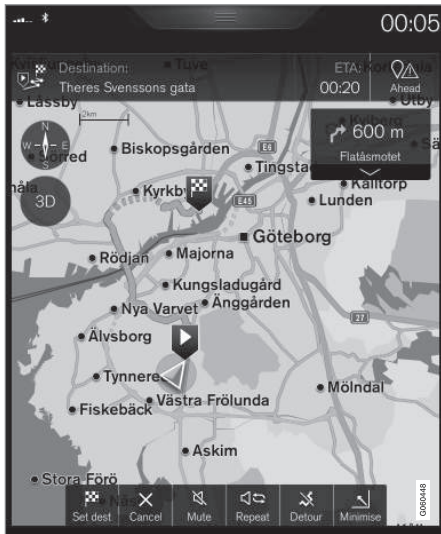
- Specifying a destination with Latest/Favourites/Library (p. 22)
- General information about entering a destination (p. 20)

ITINERARY AND ROUTE

Itinerary and Alternative route

While guidance is active you can look at the itinerary or check if there are alternative routes.

Show itinerary



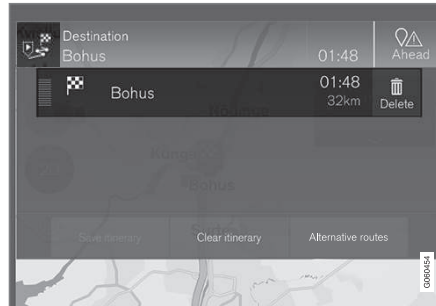
1. While guidance is active, tap on **Maximise** to maximise the map image and access the itinerary.

2.



Tap on the symbol to open the itinerary.

Edit or delete the itinerary



1. Show the itinerary.
2. Tap on the recycle bin to delete an intermediate destination in the itinerary, or tap on **Clear itinerary** to delete the whole itinerary.

Show an alternative route

You can search for alternative routes while guidance is active.

1. Show the itinerary.
2. Press **Alternative routes**.

	Highway km	Ferry m	Car train m	Arrival km
<input type="radio"/> Eco	1,8	---	---	01:46 26
<input type="radio"/> Fast	18	---	---	01:45 31
<input type="radio"/> Scenic	---	---	---	01:50 28

3. Select an alternative route:

- **Eco**
- **Fast**
- **Scenic**

4. Tap on the map.

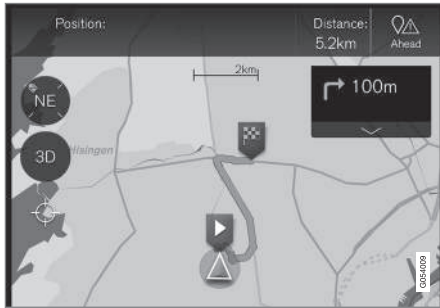
- > The updated route is then shown on the map and guidance resumes.

Related information

- Guidance points in the Itinerary (p. 31)
- Select detour (p. 33)
- Information cards on the map (p. 32)
- Route settings (p. 43)



Guidance points in the Itinerary

A list of the itinerary's future guidance points helps the driver to plan/"see" up-coming manoeuvres in good time.



The itinerary's guidance points.

A list of the itinerary's guidance points is shown on the map when an itinerary is activated.

The list can be expanded by pressing the "Down" arrow . Or minimised by pressing the "Up" arrow .

The next guidance point is always placed at the top of the list.

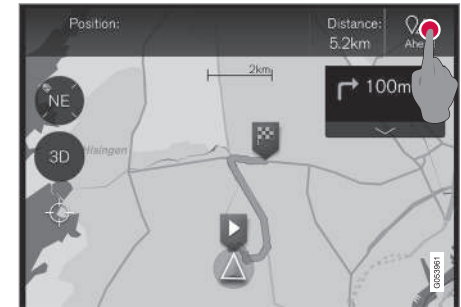
Tap on one of the list's guidance points to scroll the map forward to the related position. A subsequent tap on the map's "crosshairs" symbol (beneath the 2D/3D button) resets the map to the guidance view, where the map follows the car.

Related information

- Select detour (p. 33)
- Itinerary and Alternative route (p. 30)
- Information cards on the map (p. 32)
- Route settings (p. 43)

Points of interest (Point of Interest - POI) along the route

A list of (POI) along the route can be presented.



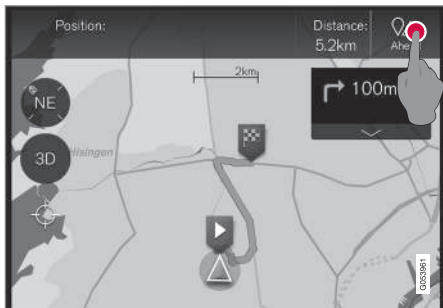
1. Press **Ahead**.
2. Press **POI**.
 - > POIs along the route are shown based on distance.
3. When several POIs are in the same location they are shown as a group. Tap on the group to list POIs.
4. Select a POI.
5. Select one of the information cards alternatives and follow the instructions.

Related information

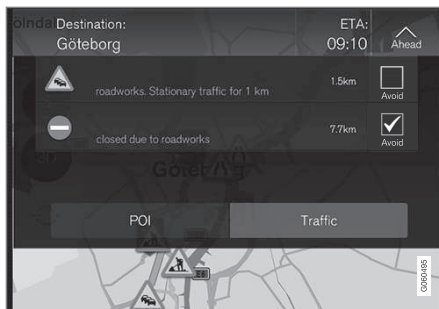
- Specify destination with point of interest (Point of Interest - POI) (p. 24)

Traffic disruptions along the route

A list of traffic disruptions along the route can be presented.



1. Press **Ahead**.



2. Press **Traffic**. The Traffic button is grey if there is no traffic event on the route.
 - > Traffic events along the route are shown based on distance.
3. If more information about the traffic disruption is required, tap on the row and an information card is opened. Select one of the information cards alternatives and follow the instructions.
4. Tap on **Avoid** to avoid the traffic disruption.
 - > The route is recalculated and guidance is given via the alternative route.

Related information

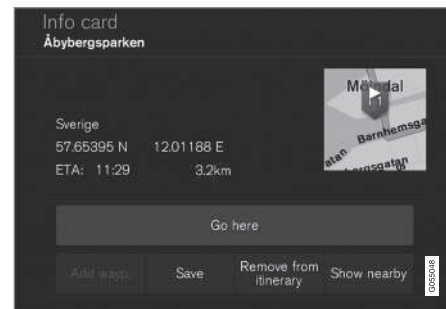
- Traffic information (p. 36)
- Traffic settings (p. 44)

Information cards on the map

Every icon on the map for e.g. destinations, intermediate destinations or favourites has an information card which is opened by tapping on the icon.

Via the icon's **Info card** the driver can see current information for the icon in question.

The information card's information and possible options vary depending on the type of icon it is.



Example of an information card for a point of interest (Point of Interest - POI).

In this example with a selected point of interest (Point of Interest - POI) the driver can, amongst other things, choose:

- **Start navigation** - the position is saved as a destination
- **Add as waypoint** - the position is saved as an intermediate destination
- **Save** - the position is saved to the Library, for further information see the section "Specify destination with Latest/Favourites/Library".

Related information

- Itinerary and Alternative route (p. 30)
- Guidance points in the Itinerary (p. 31)
- Select detour (p. 33)
- Route settings (p. 43)
- Specifying a destination with Latest/Favourites/Library (p. 22)

Select detour

If the driver wants to avoid the nearest segment of a route, e.g. because the road is closed, the **Detour** function can be selected.

Detour



1. Press the **Detour** button - an alternative route will be displayed on the map together with information about how much longer or shorter the route is and the estimated journey time.

Normally only a short detour is proposed which quickly rejoins the original route of the itinerary.



The detour and its details are shown.

2. If the suggestion is accepted: Press the sign with detour information. The route is also accepted if you drive onto the suggested road.

If the suggestion is **not** accepted: Tap on **Cancel**. Guidance will then resume with the current route.



The detour is activated.

After the proposal is accepted, guidance is resumed - now with the detour selected as the route.

An alternative to the **Detour** function is to diverge from the itinerary's route - the system then updates the route automatically and continues guidance to the destination along the most suitable route.

Another way to select an alternative route is given in the "Itinerary and Alternative route" section.

Related information

- Route settings (p. 43)
- Select detour (p. 33)
- Itinerary and Alternative route (p. 30)
- Information cards on the map (p. 32)

TRAFFIC INFORMATION

Traffic information

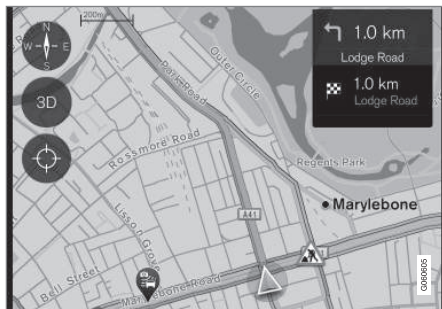
The navigation system continuously receives transmitted information about traffic flow and events.

i NOTE

Traffic information is not available in all areas/countries.

Coverage areas for traffic information are being increased continuously.

The "Traffic settings" section describes the adaptations that can be made to display traffic-related information on the map.



Example of traffic information.

Traffic disturbances such as compact and slow traffic, road works, accidents etc. are shown with different symbols on the map.

When disturbances are more severe their extent is also shown with a RED line along the side of the road, e.g. in the event of road works. The line indicates at the same time in which travel direction the disturbance applies - if the disturbance is in both directions the road section is marked with a line on both sides.

Information on traffic disruptions

- Tap on the symbol for traffic disruptions.
 - > An information card is shown. The information can describe for example the position of the disturbance with the street name or road number, and the disturbance's nature, extent or duration.

Avoid traffic disruptions

If the disturbance is situated on the route the **Avoid** option can be selected. The system then calculates an alternative route.

For a description, see "Traffic disruptions along the route".

Real Time Traffic Information (RTTI)¹

With an Internet-connected car, real time traffic information can be received via the Internet with RTTI.

Related information

- Traffic settings (p. 44)
- Real Time Traffic Information (RTTI) (p. 37)
- Traffic disruptions along the route (p. 32)

¹ Applies to certain markets.

Real Time Traffic Information (RTTI)^{2,3}

With an Internet-connected car, real time traffic information can be received via the Internet with RTTI.



Traffic information about events and flow is retrieved continuously from mobile apps, public authorities and GPS data from vehicles. When a

car requests traffic flow information, anonymous data about the traffic flow at the car's position is provided at the same time, which contributes to the function of the service. The anonymous data is only sent when RTTI is activated.

Current traffic conditions are shown for motorways, major roads and extra-urban roads, as well as certain intercity routes.

The amount of traffic information shown on the map depends on the distance from the car and is only shown within approximately 120 km from the car's position.

Text and symbols on the map are shown as usual and the traffic flow shows how quickly the traffic is moving on a road compared with the road's speed limit. The traffic flow is shown on the map on each side of the road with one coloured line per travel direction:

- Green - no disruptions.
- Yellow - shows the extent of the traffic event and does not reflect the actual flow, e.g. roadworks.
- Orange - slow traffic.
- Red - congestion/traffic jam/accident.
- Black - road closed.

i	NOTE
Traffic information is not available in all areas/countries.	
Coverage areas for traffic information are being increased continuously.	

Related information

- Activating/deactivating Real Time Traffic Information (RTTI) (p. 45)
- Traffic information (p. 36)
- Traffic settings (p. 44)
- Traffic disruptions along the route (p. 32)

² Applies to certain markets.

³ Real Time Traffic Information

SETTINGS

Activating/deactivating map display in the driver display

The map is shown automatically in the driver display when a destination is set. Map display can also be selected as active without a set destination.



Driver display¹.

1. Press **Settings** in the top view.
2. Tap on **My Car** → **Displays** → **Driver Display Centre Area**.
3. Tap on the radio button **Show Navigation** to activate map display in the driver display even if no itinerary is activated.

Related information

- Sensus Navigation settings (p. 40)
- Displays and operating controls for map navigation (p. 7)

Sensus Navigation settings

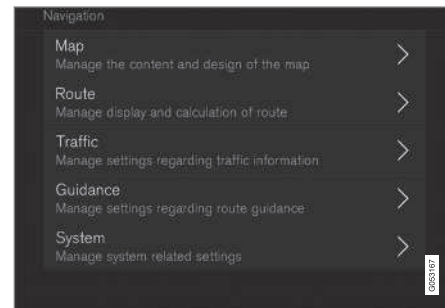
The user can choose how the route and other information shall be presented by making some settings.

Map navigation can be presented in varying ways - the user has the possibility of selecting settings to personalise the map display.

Proceed as follows to access the settings:

1. Drag down the top view from the top section of the screen.
2. There, select the following search path:

Settings → **Navigation**



¹ The map is only shown with 12" driver display.

Settings can be made within the following areas:

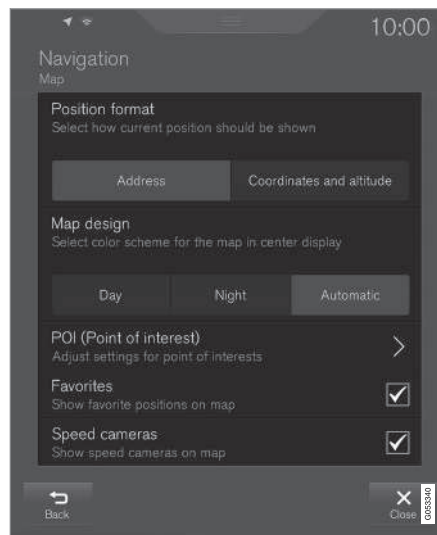
- **Map** - manage map content and appearance.
- **Route** — manage route calculation and display.
- **Traffic** - manage information about traffic disruptions.
- **Guidance** - manage guidance.
- **System** - information about updating the software and maps.

Related information

- Map settings (p. 41)
- Activating/deactivating map display in the driver display (p. 40)
- Route settings (p. 43)
- Traffic settings (p. 44)
- Guidance settings (p. 45)
- Map information (p. 46)

Map settings

Settings are selected here to define how the map should be shown on the screen.

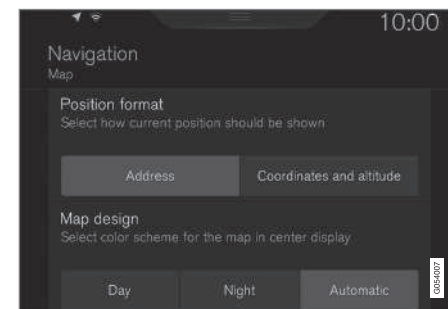


Settings → Navigation → Map

Settings can be made within the following areas:

- **Position Format**
- **Map Design**
- **POI**
- **Favourites**
- **Speed Cameras²**

Position format

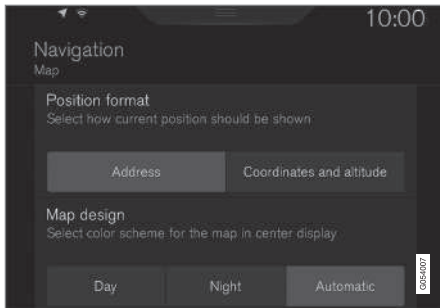


Position Format is used to choose whether the current position should be named/shown with its address or its coordinates:

- **Address**
- **Coordinates and altitude**

² The function is not available in all markets.

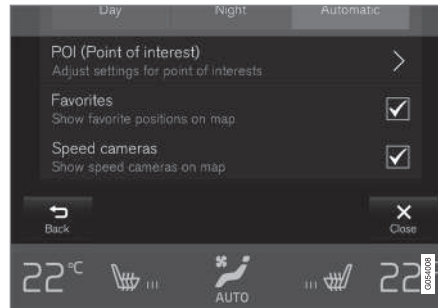
◀◀ **Map design**



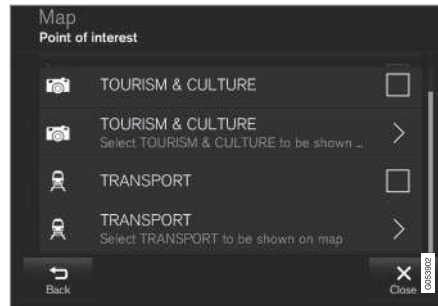
Map Design is used to choose how the map's colours should be shown:

- **Day** - bright colours.
- **Night** - dark colours so as not to interfere with night vision.
- **Auto** - the system switches between **Day** and **Night** depending on the light in the passenger compartment.

Point of interest (Point of Interest - POI)

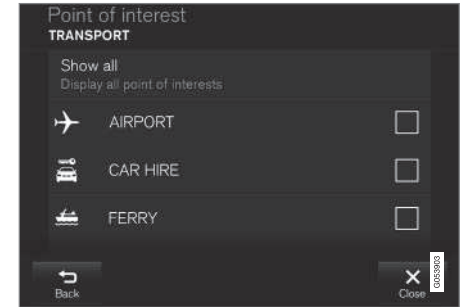


Select here which POIs should appear on the map. Every category has two alternatives - either select that all POIs in a category are to be shown, e.g. "Transport services".



POI main categories.

Or open the category with the ">" symbol and then select which subcategories shall or shall not be shown.

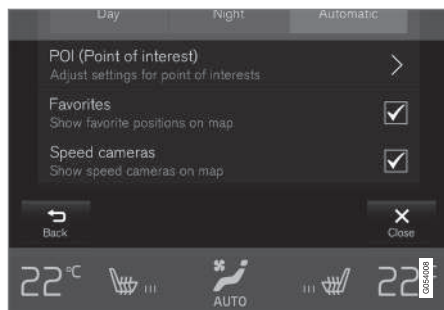


POI subcategories.

- Select the POI categories to be shown on the map and exit the menu by pressing **Back** or **Close**.

For more information, see the section "Specify destination with point of interest (Point of Interest - POI)".

Favourites

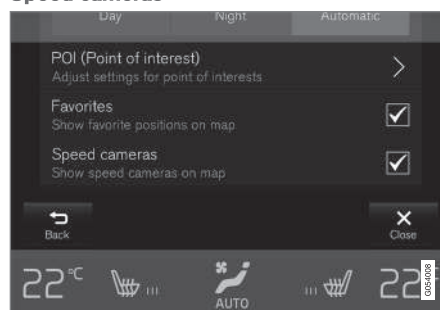


Choose whether or not **Favourites** shall be shown on the map:

- Yes/No

For more information, see the section "Specify destination with Latest/Favourites/Library".

Speed cameras³



Choose whether or not **Speed Cameras** shall be shown on the map:

- Yes/No

Related information

- Sensus Navigation settings (p. 40)
- Specifying a destination with Latest/Favourites/Library (p. 22)
- Specify destination with point of interest (Point of Interest - POI) (p. 24)

Route settings

Settings are selected here to define how the route should be calculated.

Menu path:

Settings → Navigation → Route

Settings can be made within the following areas:

- **Route Learning**
- **Traffic History Pattern**
- **Default Route Type**
- **Avoid**
- **Arrival Time Format**

Route learning

Select whether data collection to optimise route calculation should be permitted:

- Yes/No

History of traffic patterns

Select whether traffic history shall be used to calculate the route:

- Yes/No

³ The function is not available in all markets.

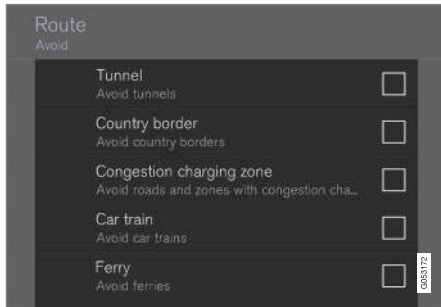
◀ Standard route types

Select the standard type of route preferred:

- **Fast**
- **Eco**
- **Scenic** - motorways are avoided as far as possible, so the journey time may be long.

It is even possible to select alternative routes during a current journey - see the "Itinerary and Alternative route" section.

Avoid



Select one or more options to automatically avoid - if this is possible - when calculating the route:

- **Tunnel**
- **International Border⁴**

⁴ Not for all markets/regions.

⁵ ETA - Estimated Time of Arrival

⁶ RTA - Remaining Time to Arrival

- **Congestion Charge Zone**
- **Car train**
- **Ferry**
- **Highway**
- **Toll Roads**

Time format

Select how arrival time should be specified:

- **ETA⁵** - Estimated time of arrival at the destination
- **RTA⁶** - Remaining time to arrival

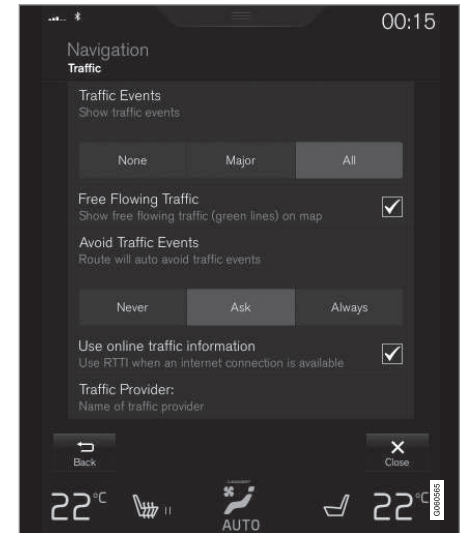
The times shown apply to the time zone of the destination.

Related information

- Sensus Navigation settings (p. 40)
- Itinerary and Alternative route (p. 30)

Traffic settings

Here you can select settings for how traffic-related information should be shown on the map.



1. Press **Settings** in the top view.
2. Tap on **Navigation** → **Traffic** and select settings:

- **Traffic Events** - that shall be shown on the map and shall be used for route calculation.

None

Major

All

- **Free Flowing Traffic** - tick the box to show on the map.
- **Avoid Traffic Events** - along the route. The option is taken into account when calculating the route.

Never

Ask - any suggestions for route changes are given during the journey.

Always

- **Use RTTI when an internet connection is available** - tick the box to use Real Time Traffic Information via the Internet.⁷
- **Traffic provider** - shows which source is used for traffic information.

Related information

- Sensus Navigation settings (p. 40)
- Traffic disruptions along the route (p. 32)
- Traffic information (p. 36)
- Real Time Traffic Information (RTTI) (p. 37)

Activating/deactivating Real Time Traffic Information (RTTI)^{8, 9}

With an Internet-connected car, real time traffic information can be received via the Internet with RTTI.

The car must be connected to the Internet for RTTI to be used.

1. Press **Settings** in the top view.
2. Tap on **Navigation → Traffic**.
3. Tick the box for **Use online traffic information** to replace the normal traffic information with RTTI.

If the car's Internet connection is disconnected when RTTI is activated then the normal traffic information will be activated automatically. RTTI is reactivated when the Internet connection is reconnected.

Related information

- Real Time Traffic Information (RTTI) (p. 37)
- Traffic information (p. 36)

Guidance settings

Settings are selected here for how guidance should be presented.

Level for voice guidance

1. Press **Settings** in the top view.
2. Tap on **Navigation → Guidance**.
3. Tap on the voice guidance required:
 - **None** - No automatic voice guidance but the possibility of manually requesting current voice guidance once.
 - **Low** - Only one message per guidance point.
 - **Moderate** - Up to 3 messages per guidance point, with limited information.
 - **Full** - Up to 4 messages per guidance point and all available information.

Points of interest (Point of Interest - POI) along the route

1. Press **Settings** in the top view.
2. Tap on **Navigation → Guidance**.
3. Tick **POI Along Route** to activate display on the map.

The list is selected automatically when travelling on a motorway.

⁷ Applies to certain markets.

⁸ Applies to certain markets.

⁹ Real Time Traffic Information

◀◀ Road navigation over level crossings

1. Press **Settings** in the top view.
2. Tap on **Navigation → Guidance**.
3. Tick **Railroad Crossing Guidance** to activate display on the map.

Road navigation for merging of roadways

1. Press **Settings** in the top view.
2. Tap on **Navigation → Guidance**.
3. Tick **Merging point guidance** to activate display on the map.

Warning about bends

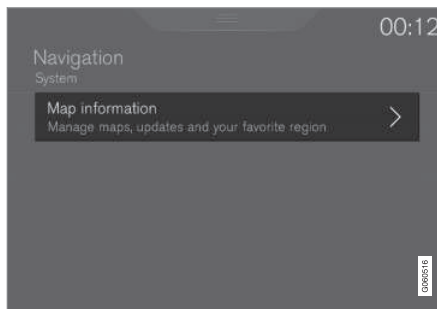
1. Press **Settings** in the top view.
2. Tap on **Navigation → Guidance**.
3. Tick **Curve warning** to activate display on the map.

Related information

- Sensus Navigation settings (p. 40)
- Points of interest (Point of Interest - POI) along the route (p. 31)

Map information

Information about the updating of software and map data is shown here.



Menu path:

Settings → Navigation → System

Map information

Shortcut to settings of map region and updates.

- **Map Information** - Manage maps, updates and select favourite region.

Related information

- Sensus Navigation settings (p. 40)
- Updating map data with MapCare (p. 48)

MAP AND SYSTEM INFORMATION

Updating map data with MapCare

MapCare is a map update service for Volvo cars equipped with Sensus Navigation. The map data can be updated via the Internet.

General information about updating

Updating can be done direct to the car, using a mobile phone connection or via a computer using a USB memory.

The car's map is divided up into a number of pre-defined regions. When updating map data it is not necessary to update all the regions - the driver can choose to only update one or more specific regions.

One or more regions can be updated over the car's Internet connection. If a large number of regions - or the whole map - is to be updated, the total quantity of map data can be so large that it is much easier to update via a computer using a USB memory.

i NOTE
If an itinerary stretches over several regions, all these should have the same version number. Otherwise there is the possibility that a calculated route may include an unexpected section of road.

Updating of the map structure

Sometimes the map structure must be changed - this occurs if a region has to be added or when a

large region needs to be divided into smaller regions. When this occurs any attempt to update individual regions using a normal procedure will fail and a message will indicate the reason.

Instead, the whole map must be reinstalled via a USB memory. For further information - see Volvo Cars support page (support.volvocars.com) or contact a Volvo dealer.

Updating of the navigation system software

Besides the map data, the navigation system's own software, which is subject to constant development, requires updating now and then. A situation can then arise where the latest updates of map data cannot be supported by the existing software of the navigation system. In which case a message is shown to inform that the navigation system software must be updated. This can be done at a Volvo dealer.

More information may be found under "Software Version" in the "System Settings" section.

Updating with Internet-connected car or USB

For information about how maps are updated, see the sections "Updating map data with Internet-connected car" and "Updating map data via PC and USB".

Frequently asked questions

Question	Answer
Is it possible to change the platform for map data, e.g. from Europe to North America?	Yes, with some exceptions. Contact a Volvo dealer for up-to-date information.
How long does it take to download a map update?	It depends on the map file size and the connection bandwidth. Information about the update's size (MB) is shown on the screen.
How large is an update?	This depends on the market. Detailed information is given with each market map - see Volvo Cars support page (support.volvocars.com).
None of this updating works - what should I do?	Try by visiting Volvo Cars support page (support.volvocars.com) or contact a Volvo dealer.

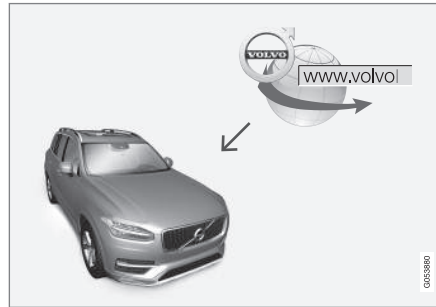
Related information

- Updating map data with Internet-connected car (p. 49)
- Updating map data via PC and USB (p. 50)

- Fault tracing for Sensus Navigation (p. 52)
- Copyright for map navigation (p. 56)
- License agreement for map navigation (p. 54)
- Map information (p. 46)

Updating map data with Internet-connected car

When the car is connected to the Internet, map data can be updated via the Internet connection.

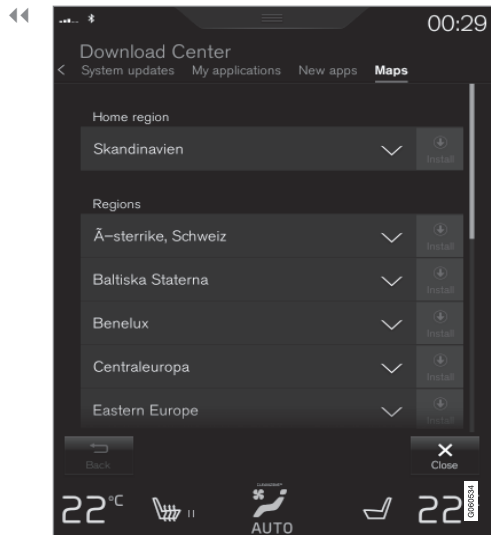


The principle of remote updating.

The car must be connected to the Internet, see the description in the section "Connecting the car" in the owner's manual.



1. Tap on **Download Centre** in the application view.
 - > The app is started and a figure is shown by **Maps** which indicates how many map updates there are for the specified home region. The figure remains visible until a new search for updates has been performed or until updates have been installed.
2. Press **Maps**.



3. Press **Install** and then **Confirm**.
 - > Installation of selected map/map update is started.

For further information - see Volvo Cars support page (support.volvocars.com) or contact a Volvo dealer.

Automatic updating of map data

Automatic updating can only be selected if the **Auto Software Update** function is activated, see section "System updates".

1. Automatic updating of map data can only be selected for the home region. If the home region is not already selected - press the DOWN arrow to expand the region.
 - > Detailed map information is shown.
2. Press **Set as home region**.
3. Tick the box for **Auto update**:
 - > When the car is connected to the Internet and a map update is available, it is automatically downloaded to the car.

Related information

- Updating map data with MapCare (p. 48)
- Updating map data via PC and USB (p. 50)

Updating map data via PC and USB

Downloading map data from the Internet to USB memory and then from USB memory to the car.

Preparations

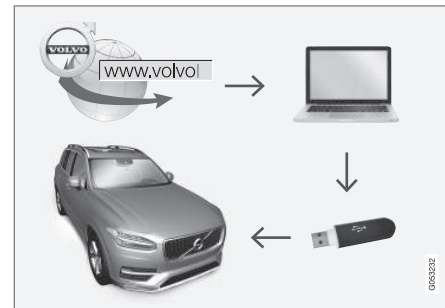


Diagram of updating process via computer and USB memory.

USB memory

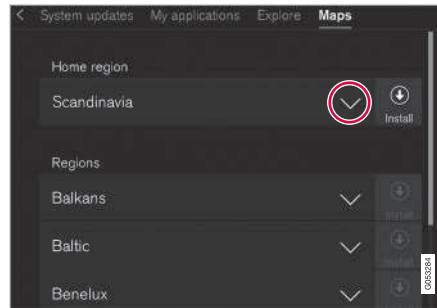
The following requirements apply if a USB memory is to manage an update:

Parameter	Requirements
USB standard (1.0/2.0/3.0):	At least 2.0
File system (Ext2/NTFS/FAT32):	FAT32
Capacity (8/16/32/64 GB):	The size of the map files is market related - see file size under "Detailed information" for each respective market on Volvo Cars support page (support.volvocars.com).

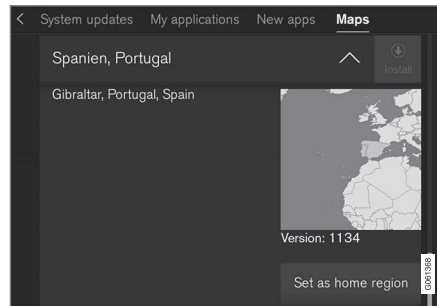
Note current map version



1. Tap on **Download Centre** in the application view.



2. Tap on the arrow to expand the region.
> Detailed map information is shown.



3. Note the map information.

Downloading of map data from the Internet to a USB memory

Have the USB memory and noted map information readily available.

1. From a computer with Internet - connect to the Volvo Cars support site (support.volvocars.com).
2. Select maps, car model and model year.
3. Click on the region to be updated.
> Map image with information on the latest map data for the region is shown.
4. Verify that the map version is newer than the one in the car.
5. Connect a USB memory to the computer and download the update to the USB memory.

The time taken to download the data varies according to the map file size and the connection's bandwidth.

Transferring map data from a USB to the car

A transfer can take up to 40 minutes depending on the amount of the map data. Updating takes place while driving. If installation is not finished when the car is switched off then the update continues when next driving.



◀◀ **Updating**

1. Activate the navigation system.
2. Connect the USB memory to the car's USB port. If there are two USB ports then the other one must not be in use.
3. The navigation system automatically detects that an update is available and, during the update of the whole map database, shows on the screen what percentage of the process remains to be done.
 - > For the update of an individual map region, the update starts immediately.
 To start the update of the whole map database, the user must tap on **Confirm** - or on **Cancel** in order to cancel the installation.
4. Tap on **Confirm** - The update of the whole map database starts and information about how the process is proceeding is shown on the centre display.
5. The screen shows when the transfer is complete - at which point, remove the USB memory.
6. Restart the infotainment system.
7. Verify that the correct map data have been transferred to the car by repeating the steps described under the previous heading "Note current map version".

Interruptions

If there is an interruption during an update an explanatory text message is always shown on the centre display.

What happens if...	Answer
...the Infotainment system is switched off during the update?	The process pauses and resumes automatically from where it stopped when the system is reactivated, e.g. when the engine is started.
...the USB memory is pulled out before the update is complete?	The process pauses and resumes automatically from where it stopped when the USB memory is reconnected to the car.

For further information - see Volvo Cars support page (support.volvocars.com) or contact a Volvo dealer.

Related information

- Updating map data with MapCare (p. 48)
- Updating map data with Internet-connected car (p. 49)

Fault tracing for Sensus Navigation

The following are examples of things that may be interpreted as navigation system faults.

The position of the car on the map is wrong

The Navigation system shows the position of the car to an accuracy of about 20 metres.

There is a greater chance of error when driving on roads lying parallel to another road, on winding roads, on roads on several levels and after driving a long distance without making any distinctive turns.

High mountains, buildings, tunnels, viaducts, over/underpasses etc. also have a negative effect on the reception of satellite signals, which means that accuracy in calculating the position of the car may decrease.

The system does not always calculate the fastest/shortest route

When calculating a route, several factors are taken into account to determine the theoretically best solution. Factors include route distance, road width, road classification, traffic intensity and speed limits. However, an experienced driver with local knowledge can quite possibly select a better route.

The system may for example use toll roads or ferries while the driver has chosen to avoid them

For technical reasons, the system can only use larger roads when calculating a route extending over a long distance.

If you selected to avoid toll roads and motorways, then they are avoided to the greatest possible extent and are only used if there is no other reasonable alternative available.

The position of the car on the map is incorrect after transportation

If the car is transported, for example by ferry or train, or in such a way as to impede the reception of satellite signals, it can take up to 5 minutes before the position of the car is correctly calculated.

The car symbol on the screen behaves illogically after the tyres have been changed

In addition to the satellite receiver, the car's speed sensor and a gyroscope assist in calculating the current position and direction of travel of the car. After fitting the spare wheel or changing between summer and winter tyres the system needs to "learn" the size of the new wheels.

In order that the system shall function optimally it is therefore recommended that the car is driven for a while on roads with good satellite reception (good visibility).

The map image does not correspond with the real situation

Factors such as the constant expansion and rebuilding of the road network, new traffic regulations constantly being introduced etc. mean that the map database is not always, in every situation, complete.

Because of this the map data is being constantly developed and updated - check now and again to see if there are any updates.

The car symbol on screen jumps forwards or spins

The system may need a few seconds to sense the position and movement of the car before driving off.

Switch off both the system and the engine. Start again, but remain stationary for a while before starting to drive.

The map information is not up to date

See the answer under the next heading.

Is the latest map information installed?

Map data are updated and improved continuously. Check that the map version is current and that updates are available:

- Check with Internet-connected car - see the section "Updating map data with Internet-connected car".
- Check the map version in the car and compare the available map version on the Volvo

Cars support site - see the section "Updating map data via PC and USB".

Related information

- Quick guide to map navigation (p. 6)
- Updating map data with MapCare (p. 48)
- Updating map data with Internet-connected car (p. 49)
- Updating map data via PC and USB (p. 50)

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◀◀ **Related information**

- Updating map data with MapCare (p. 48)
- Copyright for map navigation (p. 56)

Copyright for map navigation

For information about copyright (© Copyright) - see the "License agreement for map navigation" section

Related information

- Updating map data with MapCare (p. 48)
- License agreement for map navigation (p. 54)

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