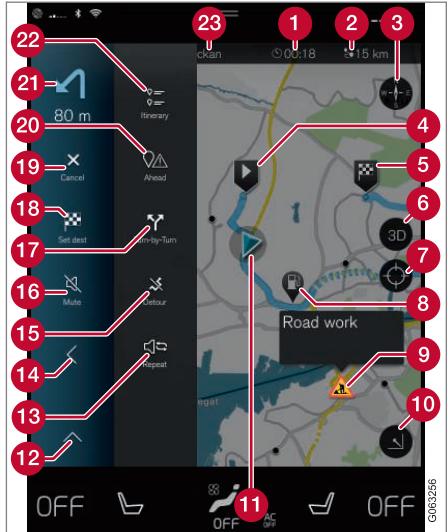




SENSUS NAVIGATION



#### Text and symbols on the map

- ① Arrival time/remaining travel time
- ② Distance to destination
- ③ Compass/changes between north and travel direction up
- ④ Starting
- ⑤ Destination/final destination

- ⑥ Changes map display between 2D and 3D
- ⑦ Resets the map to follow the car
- ⑧ Point of interest (POI - ①)
- ⑨ Traffic information
- ⑩ Minimises (expanded view) or maximises the map image (full screen)
- ⑪ Car on planned route
- ⑫ Minimises the toolbar
- ⑬ Repeats current voice guidance
- ⑭ Minimises the toolbar
- ⑮ Calculates detour
- ⑯ Voice guidance temporarily On/Off
- ⑰ Shows a list of the itinerary's guidance points
- ⑱ Enter destination/intermediate destination
- ⑲ Cancels guidance
- ⑳ Shows a list of the itinerary's points of interest (POI<sup>2</sup>) and traffic information
- ㉑ Next manoeuvre
- ㉒ Itinerary and alternative route
- ㉓ Destination/final destination

<sup>1</sup> Point of Interest

<sup>2</sup> Point of Interest

## **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 navigation system is activated automatically when the driver's door is opened.

### Activating navigation



① Subview for navigation

② Home button

If the navigation system does not show a map on the centre display - tap on the uppermost subview **Navigation** (1).

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

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



Press on this symbol to show the map image across the entire centre display.

### Related information

- Displays and operating controls for map navigation (p. 7)

### ⚠ 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.

### ⓘ NOTE

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

## 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 navigation system settings are made via the centre display. The driver sets the appearance of the map and specifies destinations here.

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

### The driver display

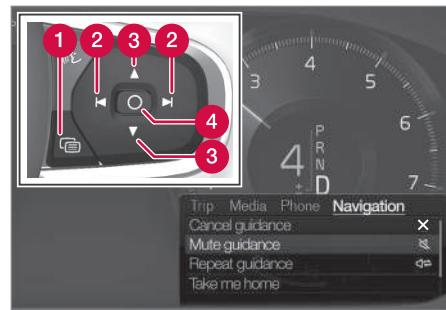


The map is only shown in the 12" driver display.

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.

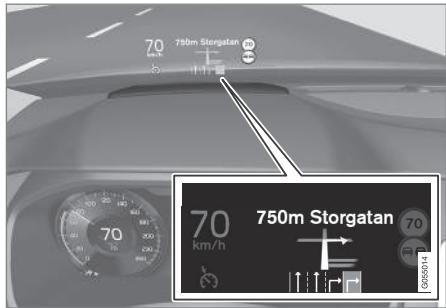
### The right-hand steering wheel keypad and the driver display

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 windscreen.

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

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. 19)
- Voice recognition and map navigation (p. 13)
- Voice recognition (p. 12)
- Using voice recognition (p. 12)
- Settings for voice recognition (p. 14)
- Activating/deactivating map display in the driver display (p. 34)

## 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 in
- Zoom out
- Scroll
- Switching heading display
- Finding the way back to the map view

## 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



After zooming in and out and moving around on the map, it can sometimes be hard to find your way back to the position of the car. Press the crosshairs to reset the map to follow the car symbol.

## Driving direction or north up on the map



Press the symbols to switch between having the direction of travel or north upwards on the map. The driver can choose between two ways to represent the car's movement in relation to the map:

1. 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.
2. 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 points towards north (N) on the map, and the centre of the compass shows the direction in which the car is pointing:

| Compass symbols | Compass direction |
|-----------------|-------------------|
| N               | North             |
| NE              | Northeast         |
| E               | East              |
| SE              | Southeast         |
| S               | South             |

| Compass symbols | Compass direction |
|-----------------|-------------------|
| SW              | Southwest         |
| W               | West              |
| NW              | Northwest         |

## 2D or 3D display



Press on the symbols to switch between 2D and 3D display. With 3D display, the car's direction of travel is always upwards on the centre display - the map rotates below 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 3D mode. 2D display is described under the previous heading "Driving direction or north up on the map".



## Zoom in

Make the map larger by pressing the centre display twice in quick succession or by placing two fingers together on the centre display and drawing them outwards.

## Zoom out

Zoom out from the map by tapping once with two fingers on the centre display or dragging two fingers together on the centre display.

## Scroll

Place one finger on the map, swipe in the desired direction, and release. The scroll function is only possible with the map maximised, not minimised.

## Switching heading display

Maximise the map and press on the map heading at the top of the centre display. Choose between the following displays as the heading on the map:

1. Destination (Destination) and arrival time (**ETA**) or remaining time to arrival (**RTA**). To select **ETA** or **RTA**, see the section "Settings for route and road navigation".
2. Current position (Position) and distance to the destination (Dist).

## Finding the way back to the map view



① Subview for navigation

② Home button

## INTRODUCTION

◀ To access the map view:

1. Press the centre display's home button (2).
2. If the centre display shows the home view instead of the map view - press the subplot **Navigation** (1).

### Related information

- Activating/deactivating map display in the driver display (p. 34)
- Sensus Navigation settings (p. 34)
- Settings for route and road navigation (p. 35)

VOICE RECOGNITION

## Voice recognition<sup>1</sup>

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 assist the driver to not be distracted so that he or she can concentrate on driving, the road and the traffic situation.

### **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

<sup>1</sup> Applies to certain markets.

Voice control is done in dialogue form with the user saying commands and receiving verbal responses 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.volvcars.com.

### Related information

- Using voice recognition (p. 12)
- Voice recognition and map navigation (p. 13)
- Settings for voice recognition (p. 14)

## Using voice recognition<sup>2</sup>

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.
- Avoid background noise in the passenger compartment by having the doors, windows and panoramic roof\* 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

\* Option/accessory.

wheel button for voice recognition  when the system voice is speaking and say the next command.

### 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 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. 12)
- Settings for voice recognition (p. 14)

## Voice recognition and map navigation<sup>3</sup>

Several navigation system functions can be activated with voice commands.

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".

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

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



- ◀ ◀
- "**Search [POI category]**" - Searches for adjacent points of interest (POI) within a certain category (e.g. restaurants)<sup>4</sup>. 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**<sup>5, 6</sup>" - Changes the search area for navigation.
  - "**Show favourites**" - Shows favourited 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. 12)
- Using voice recognition (p. 12)
- Settings for voice recognition (p. 14)

#### Settings for voice recognition<sup>7</sup>

Several settings for the voice recognition system can be made.

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

#### Audio settings

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

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

<sup>5</sup> In European countries, "Country" is used instead of "State".

<sup>6</sup> For Brazil and India, the search area is changed via the centre display.

<sup>7</sup> Applies to certain markets.

**Related information**

- Voice recognition (p. 12)
- Using voice recognition (p. 12)
- Voice recognition and map navigation (p. 13)



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:

- Long press on the direct map
- Free text searching and Map coordinates
- Latest selected destination
- Favourite marked positions from the library
- Positions saved in Library
- Point of interest (POI<sup>1</sup>)
- 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 and intermediate destinations can afterwards easily be edited - see "Edit itinerary" in the "Itinerary and Alternative route" section.

### Related information

- Itinerary and Alternative route (p. 24)
- Enter destination directly on the map (p. 18)
- Specify destination with free text searching (p. 19)
- Specifying a destination with Latest/Favourites/Library (p. 20)
- Specify destination with point of interest (p. 21)
- Specifying a destination with an address (p. 21)

### Enter destination directly on the map

A destination can be entered in different ways. Using your finger to select a destination on the map is usually the simplest way.

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

- 1 Check that the map view is in max mode.
- 2 Scroll the map until the desired position is in view.
- 3 Press and hold the position - an icon is created and a menu opens.
- 4 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:

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

### Related information

- General information about entering a destination (p. 18)

---

<sup>1</sup> Point of Interest

## 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 (POI<sup>2</sup>).

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. Expand the tools field using the down arrow on the left-hand side and press **Set dest.**
  - > The map image changes to free text searching.
2. Enter the search terms.
  - > Search hits are shown while characters are being entered.

3. 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)

**58,1234N 12,5678E** (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. 18)
- Displays and operating controls for map navigation (p. 7)
- Information cards on the map (p. 26)

<sup>2</sup> Point of Interest

## 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:



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

Previous 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

avourite 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 add a position in **Favourites**, go to **Library** and select the relevant position's asterisk 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.

Deleting a position in **Library** will also remove it from **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 Send to Car are filtered out. New positions that have not been read have a BLUE marker which is 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. 22)
- Displays and operating controls for map navigation (p. 7)
- General information about entering a destination (p. 18)

## Specify destination with point of interest

A destination can be specified in different ways - selecting a point of interest (POI<sup>3</sup>) is one of them.



1. Expand the tools field using the down arrow on the left-hand side and press **Set dest** - the map changes to free text searching.
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 point of interest.
5. Select **Start navigation** or **Add as waypoint**.

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. 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).



### 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. 18)
- Map settings (p. 34)

## Specifying a destination with an address

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



Expand the tools field using the down arrow on the left-hand side and press **Set dest** - the map changes to free text searching. Then press on **Address**.

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. 18)
- Information cards on the map (p. 26)

<sup>3</sup> Point of Interest

## Save the destination with **Send to Car**

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

### Send position to the 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.

Send to Car 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 this process is only one example from one of several map service suppliers.

1. Go to here.com on the computer.
  - > 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 several suppliers and the Send to Car function is available on the Volvo Cars support page ([support.volvcars.com](http://support.volvcars.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 the position is sent to the car with Volvo On Call then the car's built-in modem is used to receive 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

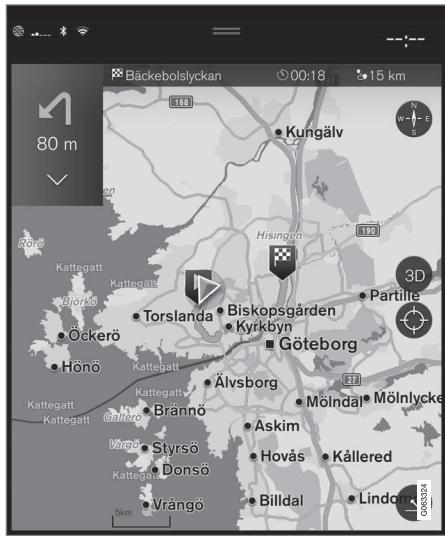
- Specifying a destination with Latest/Favourites/Library (p. 20)
- General information about entering a destination (p. 18)

## 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



- During guidance, expand the tools field with the down arrow and then the three points.  
The updated route is then shown on the map and guidance resumes.

2.



- Information cards on the map (p. 26)
  - Settings for route and road navigation (p. 35)

Tap on the symbol for **Itinerary** to open the itinerary.

## Edit or delete the itinerary

1. Show itinerary (see instructions above).
  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 itinerary (see instructions above).
  2. Press **Alternative routes**.
  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. 25)
  - Select detour (p. 26)

## 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.

Show a list of turns ahead in the itinerary by:

1. Expanding the tools field using the down arrow on the left-hand side.
2. Expanding the tools field further with the three points.
3. Pressing on the symbol for **Turn-by-Turn**.



A list of the itinerary's guidance points is shown instead of the tools field (the list can be scrolled through). Pressing the arrow pointing left minimises the list.

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

The position is shown on the map by pressing one of the list's guidance points. A subsequent press on the 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. 26)
- Itinerary and Alternative route (p. 24)

- Information cards on the map (p. 26)
- Settings for route and road navigation (p. 35)

## Points of interest along the route

A list of points of interest (POI<sup>1</sup>) 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 (p. 21)

### 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.  
  > Any 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. 30)
- Traffic settings (p. 36)

### Information cards on the map

All map icons, such as destination, interim destination and favourites, have an information card that opens after tapping the icon.

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

The information card's content and options vary depending on the type of icon.

With, for example a marked point of interest (POI<sup>1</sup>), the driver can select:

- **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 in the Library; see section "Specify destination with Latest/Favourites/Library".

### Related information

- Itinerary and Alternative route (p. 24)
- Guidance points in the Itinerary (p. 25)
- Select detour (p. 26)
- Specifying a destination with Latest/Favourites/Library (p. 20)
- Settings for route and road navigation (p. 35)

### Select detour

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

1. Expand the tools field on the left-hand side with the down arrow and then with the three points.
2. Press the symbol for **Detour** to show an alternative route with information about its longest/shortest route as well as calculated journey time. Normally only a short detour is proposed which quickly rejoins the original route of the itinerary.



<sup>1</sup> Point of Interest

<sup>2</sup> Point of Interest

3. If the suggestion is **accepted**: Press the sign with detour information. The route is also accepted if you drive onto the suggested road. After the proposal is accepted, guidance is resumed - now with the detour selected as the route. If the suggestion is **not accepted**: Expand the tools field with the down arrow first and then with the three points. Press the symbol for **Cancel**. Guidance will then resume with the current 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

- Settings for route and road navigation (p. 35)
- Itinerary and Alternative route (p. 24)
- Information cards on the map (p. 26)



## TRAFFIC INFORMATION

## Traffic information

The navigation system receives information about traffic events and shows them on the map.

### NOTE

Traffic information is not available in all areas/countries.

Coverage areas for traffic information are being increased continuously.

Read "Traffic settings" to find out how to change traffic-related information shown on the map.

Traffic disruptions, such as heavy and slow-moving traffic, roadworks and accidents, are indicated by different symbols if the map has been zoomed in enough.



Roadworks appear as follows. When disturbances are more severe, their extent is also shown with a red line along the side of the road. 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)<sup>1</sup>

If the car is connected to the Internet, Real Time Traffic Information can also be received with RTTI.

### Related information

- Traffic settings (p. 36)
- Real Time Traffic Information (p. 30)
- Traffic disruptions along the route (p. 26)

## Real Time Traffic Information<sup>2</sup>

With the car connected to the Internet, the driver can access to real time traffic information (RTTI<sup>3</sup>).

Information about traffic 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 to the car and is only shown within approximately 120 km (75 miles) 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:

<sup>1</sup> Applies to certain markets.

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

<sup>3</sup> Real Time Traffic Information

- Green - no disruptions.
- Yellow - shows the extent of traffic events, e.g. roadworks. The actual flow is not reflected.
- 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 (p. 37)
- Traffic information (p. 30)
- Traffic settings (p. 36)
- Traffic disruptions along the route (p. 26)



SETTINGS

## Activating/deactivating map display in the driver display

The map is shown automatically in the driver display when a destination is set. This can also be shown without any entered destination.

1. Tap **Settings** on the centre display's top view.
2. Tap on **My Car** → **Displays** → **Driver Display Information**.
3. Tap on the radio button **Show Map** to activate map display in the driver display even if no itinerary is activated.

### Related information

- Sensus Navigation settings (p. 34)
- Displays and operating controls for map navigation (p. 7)

## Sensus Navigation settings

Settings are selected here to define how the route and other information should be presented.

**Settings → Navigation**

Settings can be made within the following areas:

- **Map** - manage map content and appearance.
- **Route and Guidance** - manage guidance and route display and calculation.
- **Traffic** - manage information about traffic disruptions.

### Related information

- Map settings (p. 34)
- Activating/deactivating map display in the driver display (p. 34)
- Traffic settings (p. 36)
- Settings for route and road navigation (p. 35)

## 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 Display Format**
- **Show Speed Cameras**<sup>1</sup>
- **Show Favourites**
- **Point of Interest (POI)**

### 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**

<sup>1</sup> The function is not available in all markets.

## Map design

**Map Display Format** 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.

## Speed cameras<sup>2</sup>

**Show Speed Cameras** - indicate whether speed cameras should be shown on the map.

## Favourites

Choose whether or not **Favourites** shall be shown on the map. For more information, see the section "Specify destination with Latest/Favourites/Library".

## Point of interest (POI)<sup>3</sup>

The POIs to be shown on the map are indicated under **Point of Interest (POI)**. Select between marking all POIs in a category, e.g. "Transport", or open the category with the ">" symbol and select which subcategories should be shown on the map. Exit the menu by pressing **Back** or **Close**.

For more information, see the section "Specify destination with point of interest".

## Related information

- Sensus Navigation settings (p. 34)
- Specifying a destination with Latest/Favourites/Library (p. 20)
- Specify destination with point of interest (p. 21)

## Settings for route and road navigation

Settings are selected here to define how the route is to be calculated and the road navigation presented.

Settings → Navigation → Route and Guidance

Settings can be made within the following areas:

- Arrival Time Format
- Voice Guidance Level
- Choose Default Route Type
- Route Learning
- Avoidance Settings

<sup>2</sup> The function is not available in all markets.

<sup>3</sup> Point of Interest



## ◀ Time format

Select how arrival time should be specified:

- **ETA<sup>4</sup>** (estimated time of arrival at destination)
- **RTA<sup>5</sup>** (remaining time to arrival)

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

## Level for voice guidance

1. Press **Voice Guidance Level**.

2. 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)
- **Medium** (up to 3 messages per guidance point, with limited information)
- **Full** (up to 4 messages per guidance point and all available information)

## 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.

## Route learning

Select **Route Learning** if data collection to optimise route calculation should be permitted.

## Avoid

Press **Avoidance Settings** to open a menu with different options that can be avoided automatically, if possible, when calculating route. For example, select tunnels, areas with congestion charge and ferries.

## Related information

- Sensus Navigation settings (p. 34)
- Itinerary and Alternative route (p. 24)

## Traffic settings

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

**Settings → Navigation → Traffic**

Settings can be made within the following areas:

- **Show & Handle Traffic Events**
- **Avoid Traffic Events**
- **Show Free Flowing Traffic**
- **Real Time Traffic Information**

## Show traffic events

Select whether traffic events should be shown on the map and used for route calculation:

- **None**
- **Major**
- **All**

## Avoid traffic incidents

Select whether traffic incidents should be avoided when calculating a route:

- **Never**
- **Ask** (any suggestions for route changes are given during the journey)
- **Always**

<sup>4</sup> Estimated Time of Arrival

<sup>5</sup> Remaining Time to Arrival

## Show free flowing traffic

Select **Show Free Flowing Traffic** to show this on the map.

## Used Real Time Traffic Information<sup>6</sup>

Select **Real Time Traffic Information** to use Real Time Traffic Information via the Internet (RTTI).

### Related information

- Sensus Navigation settings (p. 34)
- Traffic disruptions along the route (p. 26)
- Traffic information (p. 30)
- Real Time Traffic Information (p. 30)

## Activating/deactivating Real Time Traffic Information<sup>7</sup>

With the car connected to the Internet, the driver can access to real time traffic information (RTTI<sup>8</sup>).

This is how to activate RTTI:

1. Tap **Settings** on the centre display's top view.
2. Tap on **Navigation → Traffic**.
3. Tick the box for **Real Time 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 (p. 30)
- Traffic information (p. 30)

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<sup>6</sup> Applies to certain markets.

<sup>7</sup> Applies to certain markets.

<sup>8</sup> Real Time Traffic Information



## 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.

#### 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.volvcars.com](http://support.volvcars.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.

### 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 ( <a href="http://support.volvcars.com">support.volvcars.com</a> ). |
| None of this updating works - what should I do?  | Try by visiting Volvo Cars support page ( <a href="http://support.volvcars.com">support.volvcars.com</a> ) or contact a Volvo dealer.  |

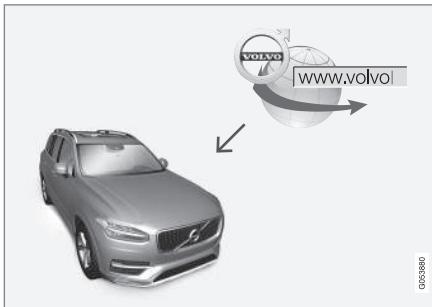
### Related information

- Updating map data with Internet-connected car (p. 41)
- Updating map data via PC and USB (p. 42)

- Fault tracing for Sensus Navigation (p. 44)
- Copyright for map navigation (p. 47)
- License agreement for map navigation (p. 45)

## Updating map data with Internet-connected car

When the car is connected to the Internet, the navigation system maps can be updated<sup>1</sup>.



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 app 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.volvcars.com](http://support.volvcars.com)) or contact a Volvo dealer.

<sup>1</sup> This function only applies to certain countries.

## ◀ 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.

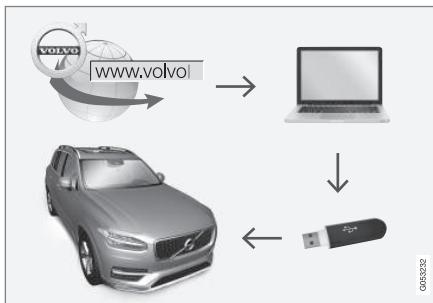
## Related information

- Updating map data with MapCare (p. 40)
- Updating map data via PC and USB (p. 42)

## Updating map data via PC and USB

New maps can be downloaded from the Internet to a USB memory and then transferred from the USB memory to the car.

### Preparations



Updating 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.volvcars.com). |

**Note current map version**

## Download Center

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 under the map image.

**Downloading of map data from the Internet to a USB memory**

Have the USB memory and noted map information readily available.

1. Go to the Volvo Cars support site ([support.volvcars.com](http://support.volvcars.com)) on a computer with Internet connection.
2. Select maps, car model and model year.
3. Click on the region to be updated.  
    > A 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.

Download times can vary depending on the size of the map and the bandwidth of the connection.

**Transferring map data from a USB to the car**

The time taken to transfer from USB memory to the car varies depending on map data size. The update can be performed 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 centre display 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.volvcars.com](http://support.volvcars.com)) or contact a Volvo dealer.

## Related information

- Updating map data with MapCare (p. 40)
- Updating map data with Internet-connected car (p. 41)

## Fault tracing for Sensus Navigation

The following are some frequently asked questions concerning the navigation system.

### 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 ( 65 ft).

There is a greater risk of error when driving on roads lying parallel to another road, on winding roads, on roads with 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, speed 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. 40)
- Updating map data with Internet-connected car (p. 41)
- Updating map data via PC and USB (p. 42)

### **License agreement for map navigation**

A license<sup>2</sup> is an agreement granting a right to conduct some activity or to make use of another person's right under the terms and conditions of the agreement.

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<sup>2</sup> EULA = End User License Agreement



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## WARNINGS

The Database may contain inaccurate or incomplete information due to the passage of time, changing circumstances, sources used and the nature of collecting comprehensive geographic data, any of which may lead to incorrect results. The Database does not include or reflect information on - *inter alia* - travel time and may not include neighborhood safety; law enforcement; emergency assistance; construction work; road or lane closures; road

slope or grade; bridge height, weight or other limits; road conditions; special events depending on the navigation system brand you possess.

## GOVERNING LAW

This Agreement shall be governed by the laws of the jurisdiction, in which you reside at the date of acquisition of the Database. Should you at that moment reside outside the European Union or Switzerland, the law of the jurisdiction within the European Union or Switzerland where you acquired the Database shall apply. In all other cases, or if the jurisdiction where you acquired the Database cannot be defined, the laws of the Netherlands shall apply. The courts competent at your place of residence at the time you acquired the Database shall have jurisdiction over any dispute arising out of, or relating to this Agreement, without prejudice to HERE's right to bring claims at your then current place of residence.

## Related information

- Updating map data with MapCare (p. 40)
- Copyright for map navigation (p. 47)

## 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. 40)
- License agreement for map navigation (p. 45)



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