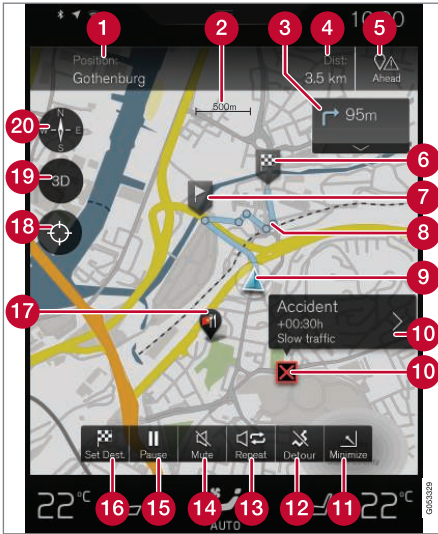




WEB EDITION
SENSUS NAVIGATION



Text and symbols on the map

- 1 Car's current position + Pressure point for opening itinerary
- 2 Map scale
- 3 List of the itinerary's guidance points
- 4 Distance to destination/Arrival time at destination + Pressure point for header change
- 5 Pressure point for list with itinerary's POI and Traffic information

- 6 Destination/final destination
- 7 Intermediate destination
- 8 Point for guidance
- 9 Car (blue triangle) on planned route
- 10 Traffic problem with 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 Pauses/resumes guidance
- 16 Enter destination/intermediate destination
- 17 POI (Restaurant)
- 18 Pressure point which resets the map to follow the car (blue triangle)
- 19 Pressure point for toggling between 2D and 3D
- 20 Compass + Pressure point for North up/Direction of travel up

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.

Navigation On/Off

On



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 - tap on 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.

Off

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

Step	Screen/ menu	Action
1	If the screen does not show a map image, proceed as follows:	Press the rectangular button under the screen to come to the home view.
2	The home view is shown.	Press Navigation on the screen's upper menu row.
3	A map is shown.	 <p>If that button is visible on the screen - press it to maximise the map view.</p>

Step	Screen/ menu	Action
4	A map is shown.	Scroll to the desired location on the map and give a long press on the position.
5	A field with the text Start navigation is shown on the screen.	Press Start navigation .
6	A map with highlighted route is shown.	Guidance starts - follow the instructions on the driver display.

Displays and operating controls for map navigation

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

The centre display screen



The centre display screen is used to define settings and to select and search for destinations.

If the map image is not shown on the centre display:

- Press the home view's uppermost menu row **Navigation**.

The driver display

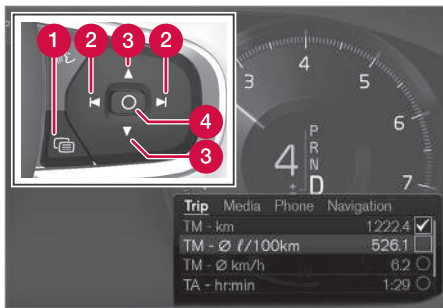


The map is only shown in the 12" driver display.

During driving the driver is guided by voice guidance and instructions on the driver display.

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**.



- 1 Open/close
- 2 Left/Right
- 3 Up/Down
- 4 Confirm

Opening/closing the menu

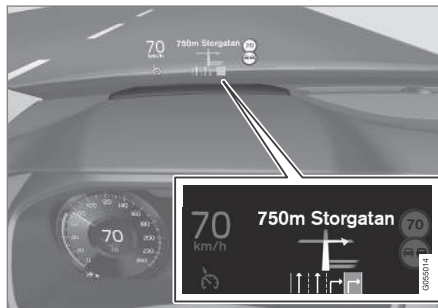
- Press open/close (1)
 - > The menu with alternatives is opened/closed - the menu closes automatically after a period of inactivity or for certain selections.

Navigating and selecting in the menu

1. Browse among the menus with Right/Left (2).
2. Browse among the options with Up/Down (3).

3. Confirm or highlight an option with (4).
 - > The function is activated and for some selections the menu is closed.

HUD - Head-up-display*



Map navigation on the windscreen.

The driver can also receive guidance and information from the navigation system display at the bottom of the windscreen.

The position of the information field can be adjusted. The HUD is comprehensively described in the "Head-up-display" section.

Voice recognition

Many functions can also be performed with voice commands.



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

Voice recognition is comprehensively described in the sections "Voice recognition", "Using voice recognition", "Voice recognition and map navigation" and "Settings for voice recognition".

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)

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.

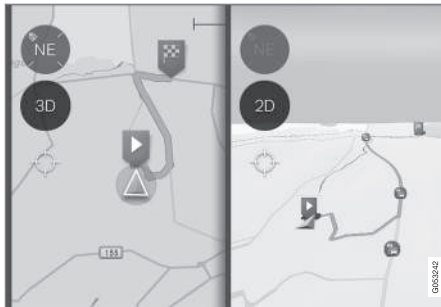
The driver can choose between two ways to represent the car's movement in relation to the map:

- The map is shown with north always upwards on the centre display - the car symbol moves or "drives" 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 points/drives upwards on the centre display - the map rotates under the car symbol according to 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 (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

around the car symbol according to 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.

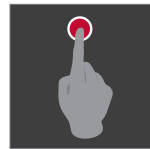
The map scale is not shown in the 3D mode.

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:



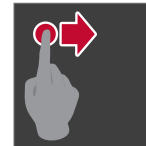
Tap once on the centre display with two fingers spread apart.

or



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

Scroll

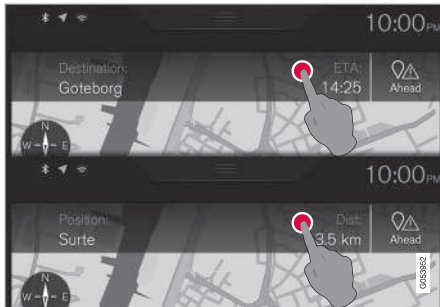


Place one finger on the map, swipe in the desired direction, and release.

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

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 (ETA¹) or remaining time to arrival (RTA¹)

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

- Map navigation in the driver display (p. 42)
- Sensus Navigation settings (p. 42)

¹ The selection ETA - Estimated Time of Arrival or RTA - Remaining Time to Arrival is made in the "Route settings" section.

VOICE RECOGNITION

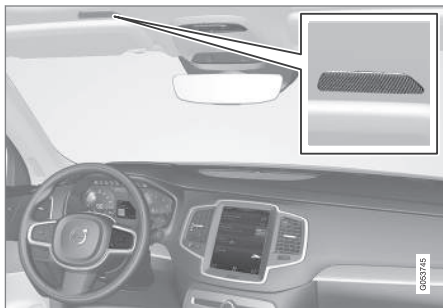
Voice recognition

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 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 recognition

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 tailgate 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.

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 navigation

With voice recognition control, many functions in the navigation system can be activated by spoken words.

Voice recognition is comprehensively described in the sections "Voice recognition", "Using voice recognition" and "Settings for voice recognition".

Voice commands

The following are some examples of voice commands that are unique to map navigation.

Press the steering wheel button  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 town as the destination. E.g. "Drive to Coventry".
- **"Go to [Address]"** - Specifies an address as a destination. An address should contain city and street. E.g. "Drive to 5 King Street, Coventry".
- **"Set [intersection]"** - Specifies an intersection as a destination. Search for intersection takes place within the search area specified.

- **"Go to [Post code]"** - Specifies a post code as the destination. E.g. "Drive to LE5 4PQ".
- **"Go to [contact]"** - Specifies an address from the telephone book as the destination. E.g. "Drive to Robin Smith".
- **"Search [POI category]"** - Searches for POI¹ category (e.g. restaurant), which are always sorted "around the car". To sort the list along the route - say **"Along the route"** when the result list is shown.
- **"Set [country]/[state]"**^{2, 3} - 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.
- **"Pause guidance"** - Pauses the guidance on the map.
- **"Resume guidance"** - Resumes the paused guidance on the map.
- **"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 recognition


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.

¹ The user has the option of calling the POI or specifying it as a destination.

² In European countries, "Country" is used instead of "State".

³ For Brazil and India, the search area is changed via the centre display.

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
- POI¹
- 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. 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. 23)
- Specifying a destination with POI (p. 25)
- Specifying a destination with an address (p. 26)

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.

¹ POI: Point of interest may even be called a facility or an attraction



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. Mark the icon with a short tap.
2. 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 specified in different ways - free text searching is one of them.

Free text searching

Most things can be searched for with free text. E.g. phone number, post code, streets, towns, coordinates and POIs.

The on-screen “keyboard” can be used to type most characters and to search for destinations.

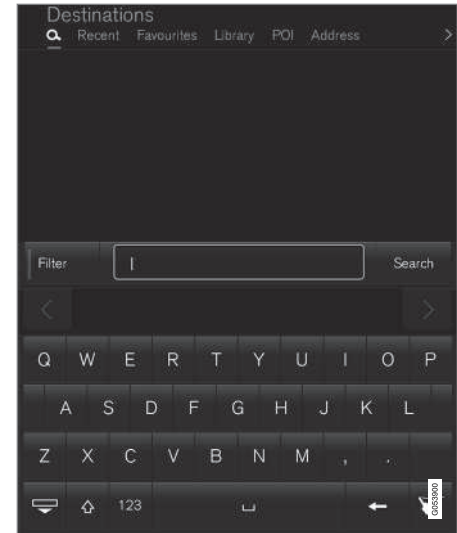


To display the keyboard:

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



2. Then tap on this symbol, at the top of the screen - free text searching with its keyboard, search field and filter are opened.

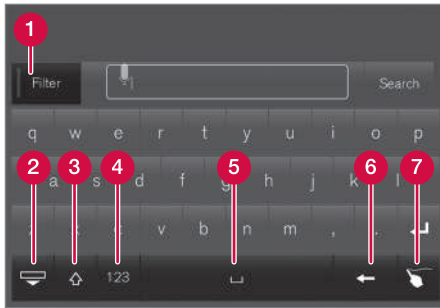


1. Enter the search words - suggestions for possible destination options are listed in order of distance from the map's car symbol.
2. Select/mark a suitable suggestion in the list - the **Info card**² for the suggestion is shown.
3. Follow the instructions in the centre display and activate guidance to the destination.

² See information under the heading "Information card on the map".

SPECIFY A DESTINATION

Keyboard



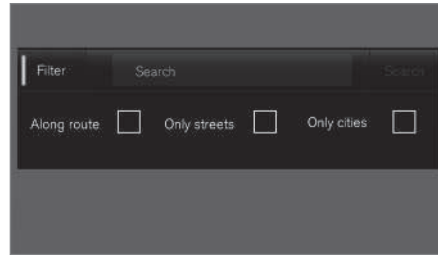
The keyboard function buttons.

- 1 Filter - Limits/filters hit lists.
- 2 Hide the keyboard to show a larger/longer hit list - press in the text field to show the keyboard again
- 3 Switches between CAPITAL (uppercase) and small (lowercase) letters
- 4 Switches between characters and digits/special characters
- 5 Blank (space)
- 6 Erase the text to the left of the marker
- 7 Writing pad — "Write" the desired character with your finger on the on-screen "writing pad".

The keyboard and further functions are described in detail in the "Using the keyboard in the centre display" section.

Filter

Several filters help to shorten the lists of hits.



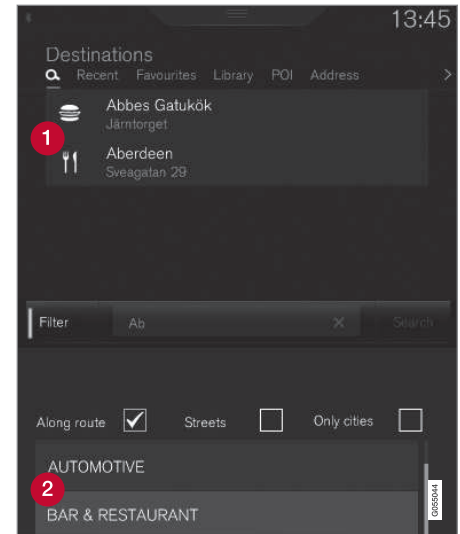
Filter for hit lists.

The availability of filters can vary from case to case - the following filters are available:

- **Along route** - Only hits along the route will appear in the hit list.
- **Streets** - Only streets/roads will appear in the hit list.
- **Cities** - Only cities/towns will appear in the hit list.

Filter for POIs

Available POI categories in the current area are listed furthest down on the screen.



- 1 POI filtered out from the marked category (2)
- 2 POI categories (there may even be subcategories in a POI category).

Only POIs from a marked POI category are listed and only the "Along route" filter can be combined with POIs.

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. 20)
- Displays and operating controls for map navigation (p. 7)
- Information cards on the map (p. 33)

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:



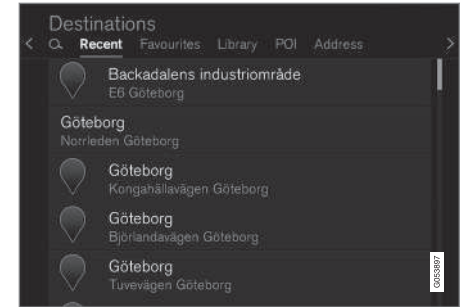
1. Tap on **Set dest.**, at the bottom of the screen - the map image changes to search via address.

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.

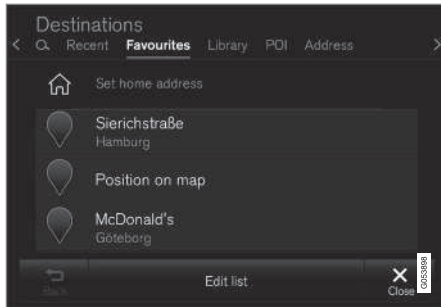
Last



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".

◀◀ Favourites



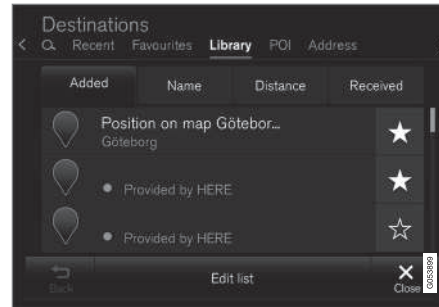
Favourite marked positions from the **Library** are listed here. Scroll and select.

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.

Press on a position's "star" to select/deselect it as a favourite. A position with a marked/"filled" star is also listed under "**Favourites**".

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

The library can be sorted in various ways:

- **Added**
- **Name**
- **Distance**
- **Received** - this is a filter

Positions sent to the car using "Send to Car" can be filtered out using **Received**. New positions that have not been read have a BLUE marker.

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

Each of the lists positions can be edited with respect to Name, Position, Internet address and Telephone number (max three tel. nos. per position) using **Edit**.

Related information

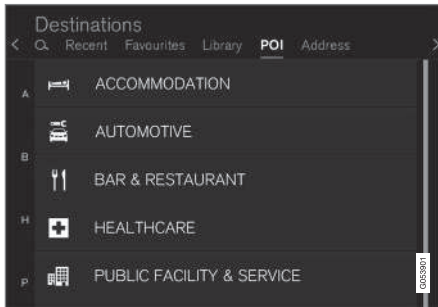
- Save the destination with "Send to Car" (p. 26)
- Displays and operating controls for map navigation (p. 7)
- General information about entering a destination (p. 20)

Specifying a destination with POI

A destination can be specified in different ways - specifying a POI³ 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. Then select **POI**, at the top of the screen.



Example of POIs

Many POIs (e.g. Restaurants) have subcategories (e.g. Chinese restaurants).

Suggestions for POIs are listed in order of distance from the map's car symbol.

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).

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.

Filter

When an itinerary is activated and a POI category selected, a filter is offered which shortens the search list to only include POIs along the route. The list can then be sorted.

- **Along route** - Only hits along the route will appear in the hit list.

When the filter is activated, the list can be sorted by **Name** or **Distance**.

Suggestions for POIs are listed in order of distance from the map's car symbol.

Related information

- General information about entering a destination (p. 20)
- Map settings (p. 43)

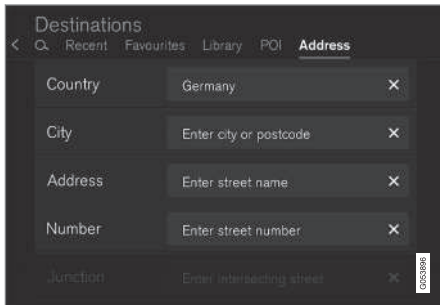
³ POI = Point of interest - can also be called "point of interest" or "facility".

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.** (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.

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

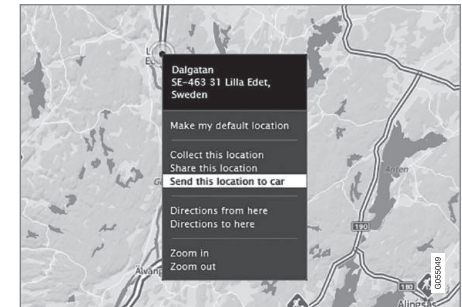
- General information about entering a destination (p. 20)
- Information cards on the map (p. 33)

Save the destination with "Send to Car"

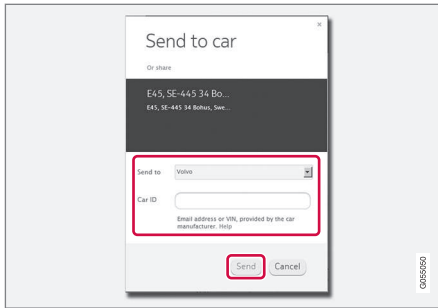
A destination can be specified in different ways - using the Send to Car function (Send to Car) is one of them.

Send 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 effected with a mobile telephone via Volvo's VOC (Volvo On Call) service. VOC can even be used if a destination/position needs to be sent to the car from the VOC centre.



Mark the desired position and select "Send this location to car".



Type in the VIN no. or Volvo ID and select "Send".

1. Connect to the internet (here.com) - a map service is opened
2. Connect to the Internet - a map service is opened
3. Mark the desired position
4. Select "Send this location to car"
5. Type in the car's VIN no. or Volvo ID
6. Select "Send" - the position is sent to the car's Library list where it is identified with a blue cursor.

In the car a highlighted symbol on the centre display then alerts the driver to the fact that a destination or position has been sent to the car. Press the symbol and an information card shows information about the contents and available alternatives.

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

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

Related information

- Specifying a destination with Latest/Favourites/Library (p. 23)
- General information about entering a destination (p. 20)

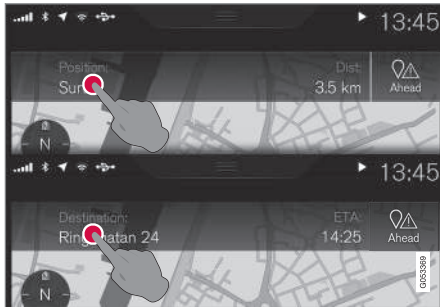
ITINERARY AND ROUTE

Itinerary and Alternative route

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

Show itinerary

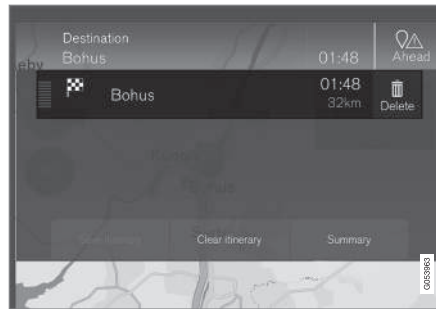
To see/show the itinerary:



- Press **Position:** or **Destination:** - the current itinerary is shown.

Edit itinerary

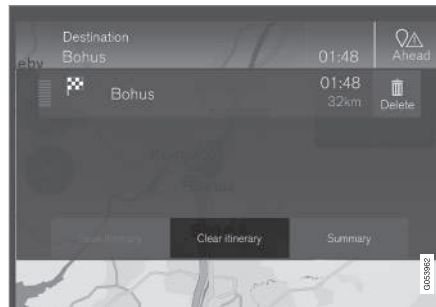
The itinerary can be adjusted:



- Select one of the itinerary rows and follow the instructions.

Delete itinerary

The whole itinerary or individual intermediate destinations can be deleted:



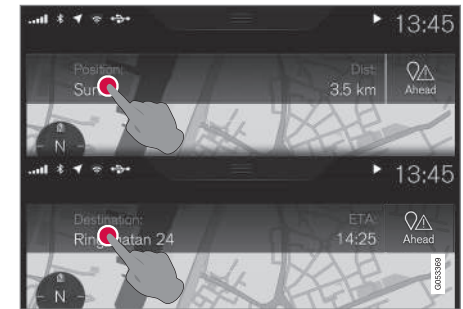
- Select an individual intermediate destination in the itinerary and follow the instructions.

or

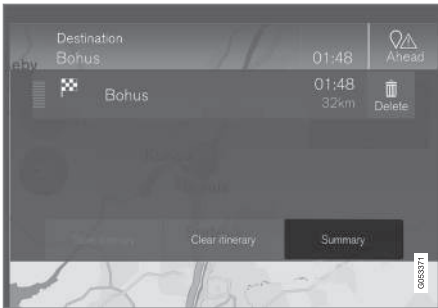
- Select **Clear itinerary** and verify the selection to delete the whole itinerary.

Show an alternative route

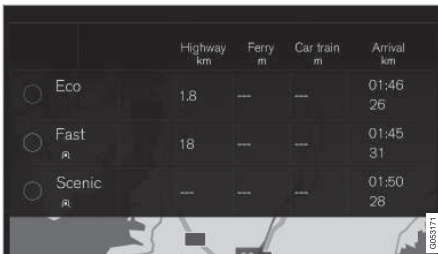
At any time while guidance is active the driver can see if there are alternative routes. Proceed as follows:



1. Press **Position:** or **Destination:** - the current itinerary is shown.



2. Press **Alternative routes** - then any available alternative routes for the remainder of the itinerary are shown.



3. Select thereafter one of the alternatives:

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

4. Then tap on the map - the updated route is shown on the map and guidance resumes.

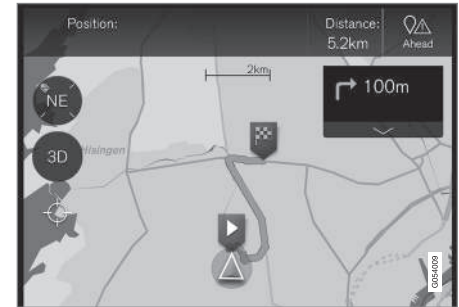
See also "Alternative routes" in the "Route settings" section.

Related information

- Guidance points in the Itinerary (p. 31)
- Select detour (p. 34)
- Information cards on the map (p. 33)
- Route settings (p. 46)



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**

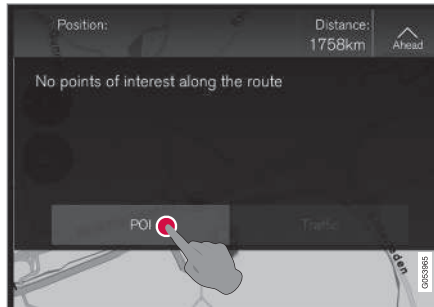
- Select detour (p. 34)
- Itinerary and Alternative route (p. 30)
- Information cards on the map (p. 33)
- Route settings (p. 46)

POIs along route

A list of POIs along the route can be presented.



1. Press "Ahead" (Ahead).



2. Then press here to get information about POIs along the route.

A list then shows current POI categories at for example a turn-off or a service area.

1. Select the desired category whereupon a new list is opened - sometimes with subcategories.
2. Continue to "zoom in" until a single POI can be selected.
3. Mark a POI in the list whereupon its information card is shown.
4. Select one of the information cards alternatives and follow the instructions.

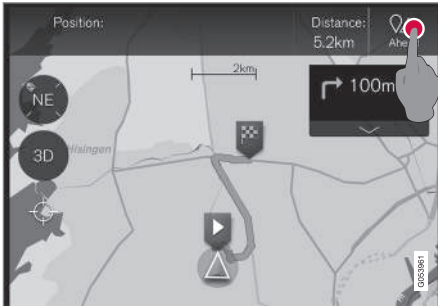
Counted alternatives are listed based on distance from the map's car symbol - the one at the top of the list is closest.

Related information

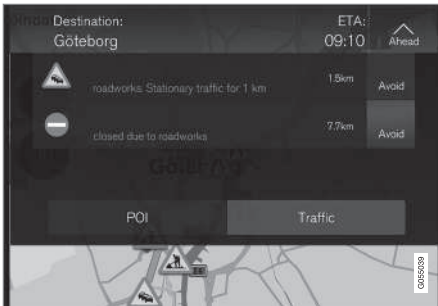
- Specifying a destination with POI (p. 25)

Traffic disruptions along the route

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



1. Press "Ahead" (Ahead).



2. Then press "Traffic" to get information about traffic disruptions along the route.

To see information about a specific traffic disruption:

- Select from the list - information is given about the disruption.

Guidance via an alternative route is given by selecting **Avoid**.

Related information

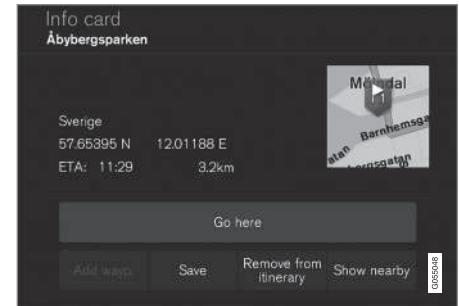
- Traffic information (p. 38)
- Traffic settings (p. 47)

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.



An example of a POI information card.

In this example with a marked POI the driver can amongst other things 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 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. 34)
- Route settings (p. 46)
- Specifying a destination with Latest/Favourites/Library (p. 23)

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



Button for "Detour" (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.

If the suggestion is **not** accepted: Press the **X** button. Guidance will then resume with the current route.



The detour is activated.

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

An alternative to the **Detour** function is to choose another road and 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. 46)
- Select detour (p. 34)
- Itinerary and Alternative route (p. 30)
- Information cards on the map (p. 33)

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.

In the "Traffic settings" section the driver can define a number of settings.

Directly 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.

- Press the traffic disturbance symbol - 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.

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

Real Time Traffic Information (RTTI)¹

With an Internet-connected car, real time traffic information can be received via the Internet with RTTI².

Related information

- Traffic settings (p. 47)
- Real Time Traffic Information (RTTI) (p. 38)
- Traffic disruptions along the route (p. 33)

Real Time Traffic Information (RTTI)⁴

With an Internet-connected car, real time traffic information can be received via the Internet with RTTI⁵.



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

¹ Applies to certain markets.

² RTTI = Real Time Traffic Information (Real Time Traffic Information)

⁴ Applies to certain markets.

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 100 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 - slow traffic.
- Red - congestion/traffic jam/accident.

NOTE

Traffic information is not available in all areas/countries.

Coverage areas for traffic information are being increased continuously.

Activate/deactivate

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** and select the setting for online traffic information:
 - Tick the box - RTTI is activated and replaces the normal traffic information.
 - Untick the box - RTTI is deactivated and the normal traffic information is activated.

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

- Traffic information (p. 38)
- Traffic settings (p. 47)
- Traffic disruptions along the route (p. 33)

⁵ RTTI = Real Time Traffic Information (Real Time Traffic Information)

SETTINGS

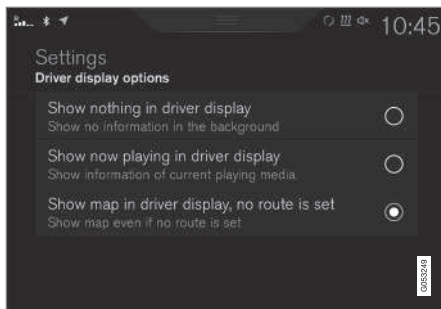
Map navigation in the driver display

An activated itinerary is shown automatically in the driver display.



Driver display¹.

The driver can choose to have navigation information in the driver display even if there is no itinerary activated. With an activated itinerary, the map is shown automatically in the driver display.



Map display in the driver display is activated/deactivated here.

Menu path:

Settings → My Car → Displays → Driver Display Centre Area → Driver Display Options

- There highlight the option **Show Navigation**.

Related information

- Sensus Navigation settings (p. 42)
- Displays and operating controls for map navigation (p. 7)

Sensus Navigation settings

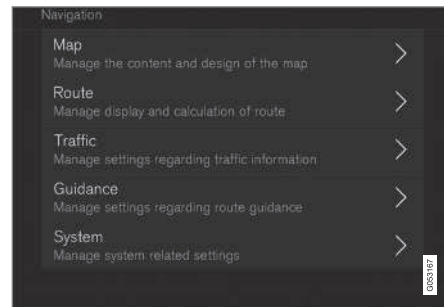
The user can choose how the route and other information shall be presented by making some settings.

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 → Route



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

Settings can be made within the following areas:

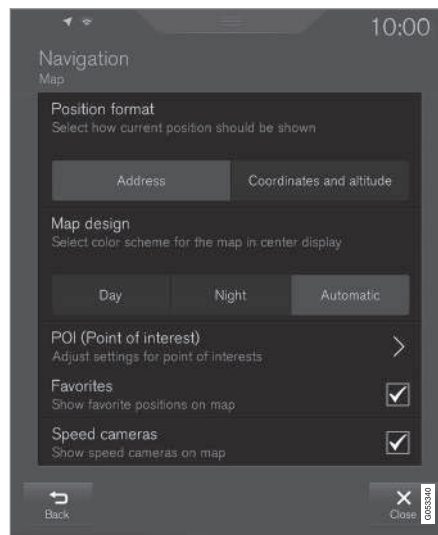
- **Map** - manage map content and appearance.
- **Route** — manage route calculation and display.
- **Traffic** - manage information about traffic disruptions.
- **Guidance** - manage guidance.
- **System** - information about updating the software and maps.

Related information

- Map settings (p. 43)
- Map navigation in the driver display (p. 42)
- Route settings (p. 46)
- Traffic settings (p. 47)
- Guidance settings (p. 48)
- System settings (p. 49)

Map settings

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



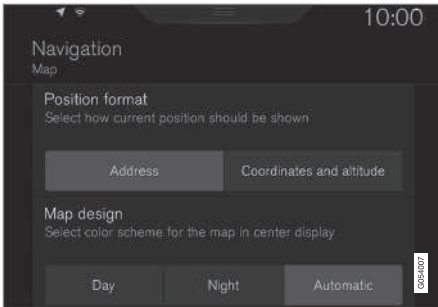
Settings → Navigation → Map

Settings can be made within the following areas:

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

² The function is not available in all markets.

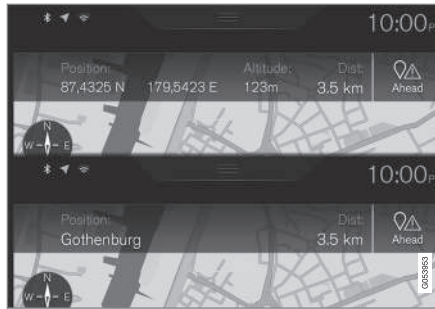
◀◀ **Position format**



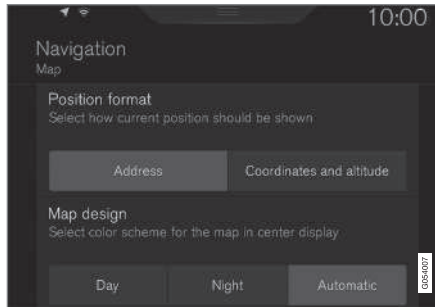
Position Format is used to choose whether the current position should be named/shown with its address or its coordinates:

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

The following illustration shows both of the alternatives.



Map design

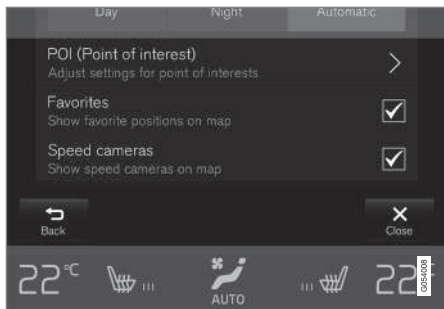


Map Design is used to choose how the map's colours should be shown:

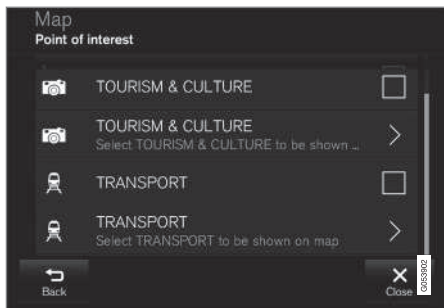
- **Day** - bright colours.
- **Night** - dark colours so as not to interfere with night vision.

- **Auto** - The system switches between **Day** and **Night** according to the light in the passenger compartment.

POI

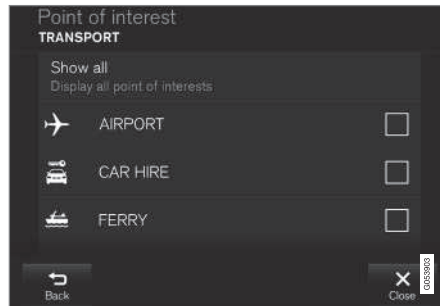


Select here which POIs should appear on the map. Every category has two alternatives - either select that all POIs in a category are to be shown, e.g. "Transport services".



POI main categories.

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

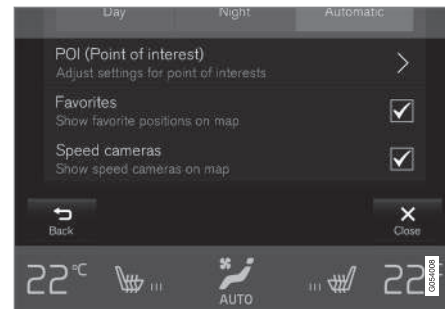


POI subcategories.

- Highlight the POI categories which should be shown on the map and exit the menu by tapping on **Back** or **Close**.

For more information see "Specify destination with a POI".

Favourites

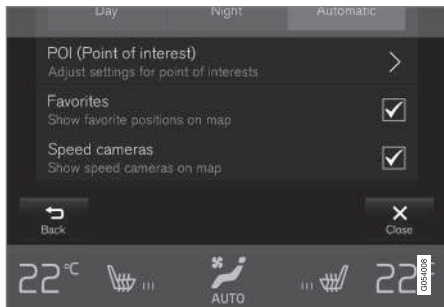


Choose whether or not **Favourites** shall be shown on the map:

- 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:

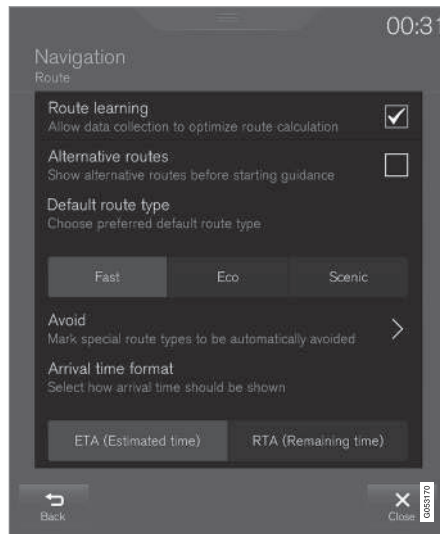
- Yes/No

Related information

- Sensus Navigation settings (p. 42)
- Specifying a destination with Latest/Favorites/Library (p. 23)
- Specifying a destination with POI (p. 25)

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**
- **Alternative Routes**
- **Default Route Type**
- **Avoid**
- **Arrival Time Format**

Route learning

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

- Yes/No

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

Select whether 3 alternative routes should be shown before guidance starts:

- Yes/No

³ The function is not available in all markets.

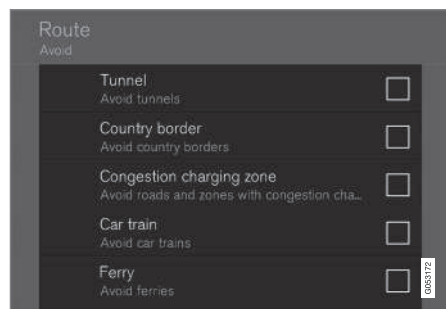
Standard route types

Select the standard type of route preferred:

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

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

Avoid



Highlight one or more options to automatically avoid when calculating the route:

- **Tunnel**
- **International Border⁴**
- **Congestion Charge Zone**

⁴ Not for all markets/regions.

⁵ ETA – Estimated Time of Arrival

⁶ RTA – Remaining Time to Arrival

- **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

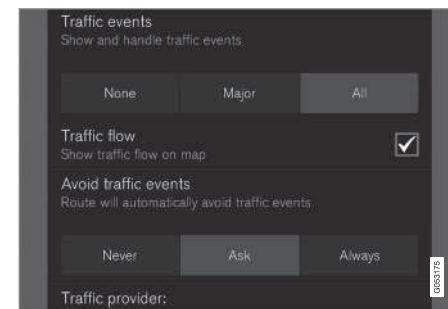
The times shown apply to the time zone of the destination.

Related information

- Sensus Navigation settings (p. 42)
- Itinerary and Alternative route (p. 30)

Traffic settings

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



Menu path:

Settings → Navigation → Traffic

Settings can be made within the following areas:

- **Traffic Events**
- **Free Flowing Traffic**
- **Avoid Traffic Events**
- **Traffic Provider: %s**

« Traffic events

Decide which traffic events shall be shown on the map and shall be used for route calculation.

Select one of the following options:

- None
- Major
- All

Traffic flow

Decide whether or not the traffic flow should be shown on the map, with green lines. Set:

- Yes/No

Orange or Red lines are determined according to the current traffic situation and cannot be deselected.

Avoid traffic incidents

Decide whether or not the system shall automatically avoid traffic incidents along the route. Select one of the following options:

- Never
- Ask
- Always

The system takes the driver's selection into account when calculating the route. The selections that the driver must "confirm" are those which occur during the journey.

Traffic provider:

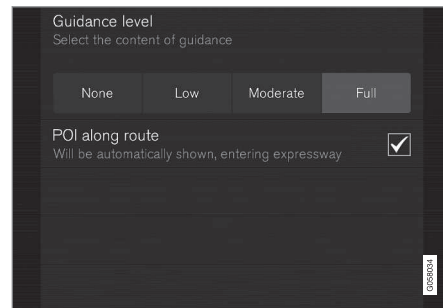
The sources that are used for traffic information are shown here.

Related information

- Sensus Navigation settings (p. 42)
- Traffic disruptions along the route (p. 33)
- Traffic information (p. 38)
- Real Time Traffic Information (RTTI) (p. 38)

Guidance settings

Settings are selected here for how guidance should be presented.



Menu path:

Settings → Navigation → Guidance

Settings can be made within the following areas:

- Voice Guidance
- POI Along Route

Level for voice guidance

Determine information amount in voice guidance - select one of the following options:

- **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.

POIs along route

Choose whether or not **POI Along Route** shall be shown on the map:

- Yes/No

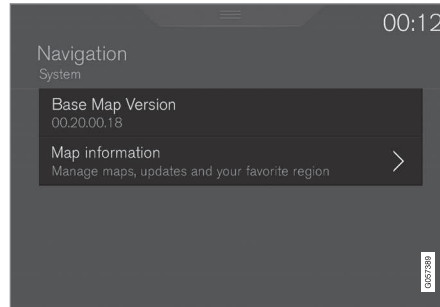
The list is selected automatically when travelling on a motorway. For more information see the "POIs along the route" section.

Related information

- Sensus Navigation settings (p. 42)
- POIs along route (p. 32)

System settings

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



Menu path:



Software version

Information about the navigation systems base map.

- **Base Map Version** - e.g. 00.20.00.18

For more information see under "Updating of the navigation system software" in the "Updating map data with MapCare" section.

Map information

Information about the navigation system's map data and short cuts to updates.

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

Related information

- Sensus Navigation settings (p. 42)
- Updating map data with MapCare (p. 52)

MAP AND SYSTEM INFORMATION

Updating map data with MapCare

An owner of Volvo Sensus Navigation can update the navigation system's map data via the internet.

General information about updating

Updating can be done direct to the car with remote updating using a mobile telephone 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 a possibility that a calculated route can go an unexpected way.

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 via remote updating or USB

For information about how maps are updated see the sections "Updating map data via remote updating" 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.

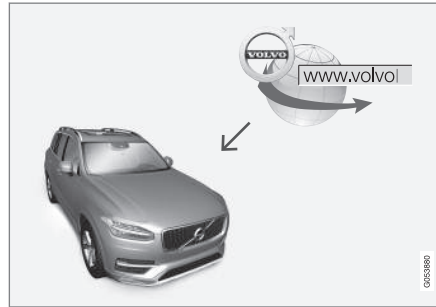
Related information

- Updating map data via Remote updating (p. 53)
- Updating map data via PC and USB (p. 54)
- Fault tracing for Sensus Navigation (p. 56)
- Copyright for map navigation (p. 60)
- License agreement for map navigation (p. 58)
- System settings (p. 49)

Updating map data via Remote updating

Before doing a remote update via a mobile telephone connection, certain details must be attended to.

Preparations



The principle of remote updating.

Connection

The car is connected to the internet either via Bluetooth, using Wi-Fi or a cable connected to the USB socket, or via the car's integral modem. The connection status is shown with a symbol in the status field of the centre display.

See the information/description in the "Connecting the car" and "Connected car" sections of the Owner's Manual.

Download of map data from the Internet



Downloads are handled via **Remote update service** in the centre display's application view.

1. Open the **Remote update service** app from the app view.
 - > A download application is started and an icon in the **Maps** button shows how many updates are available.
2. Press the **Maps** button to show a list of available updates.
3. Mark the applicable region - press the **DOWN** arrow for information on the current version of map data or press **Install** to see if there is a newer version.

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

◀ **Home region**

The driver can choose to show a home region, and to have it updated automatically. Proceed as follows:

1. Highlight the region in question - press the DOWN arrow to expand the region.
2. Press the **Set as home region** button.
3. If automatic updates are required, press the **Auto update:** button.

Automatic updates can only be selected if the "Background search for software updates" function is activated, see the section "System updates".

Related information

- Updating map data with MapCare (p. 52)

Updating map data via PC and USB

Before updating via a USB memory, some details must be attended to.

Preparations

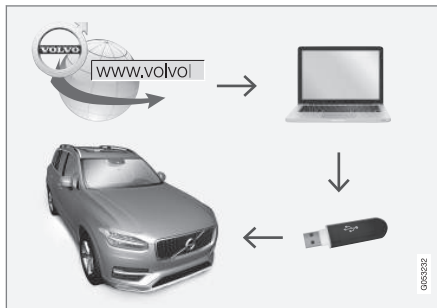


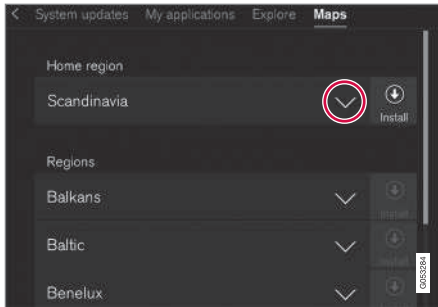
Diagram of updating process via computer and USB memory.

USB memory

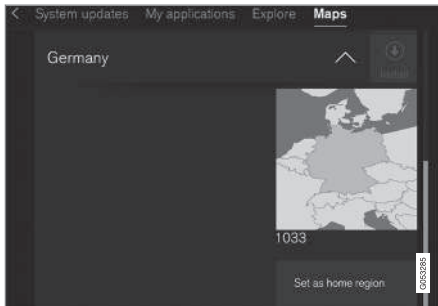
The following requirements apply if a USB memory is to manage an update:

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).

Current map version



Examples of regions in the map data - press the DOWN arrow for more information.



An example of a region - one press on "Set as home region" (Set as home region) makes it the home region.

First, find out which map version is loaded in the car before the map data download is started. This can be done as follows:

1. Open the **Remote update service** app from the app view.
 - > A download application is started and an icon in the **Maps** button shows how many updates are available.
2. Press the **Maps** button to show a list of available updates.
3. Mark the applicable region - press the DOWN arrow for information on the current version of map data or press **Install** to see if there is a newer version.

Downloading of map data from the Internet to a USB memory

From a computer with Internet access - connect to Volvo Cars support page (support.volvocars.com) and follow the instructions on the computer screen.

1. Press "Detailed information" for the region that is to be updated.
2. A map image with information about the latest map data for the region is shown — verify that it is newer than the version in the car.
3. 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

General

A transfer may take 30-60 minutes, depending on the map file size, and the navigation/infotainment system must be activated.

A battery charger should be connected in order not to risk draining the starter battery during the update. An update can also be performed while driving.

During an update of a complete map database the following infotainment functions are not available or are limited:

- Navigation
- Voice command
- Details/media stored on the hard disk drive

◀◀ **Updating**

1. Activate the navigation system in accordance with the earlier section "Current map version".
2. Connect the USB memory to the car's USB socket.
3. The navigation system automatically detects that an update is available, then during the update the screen shows how much of the process remains, counted in %.
To start the update, the driver must tap on **Confirm** - or on **Cancel** to cancel it.
4. Tap on **Confirm** - The update starts and information is shown in the centre display about how the process is progressing.
5. The screen shows when the transfer is complete - at which point, remove the USB memory.
6. Verify that the correct map data have been transferred to the car by repeating the steps described under the previous heading "Current map version".

Interruptions

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.

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

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

Related information

- Updating map data with MapCare (p. 52)

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.

How can the driver easily check which map version is being used?

1. Sweep into view the centre display's application view.
2. Select the **Remote update service** application.

Information about the current version is available. In the "Updating map data - MapCare" there is

more information about the version and which geographic area it covers.

See also the Volvo Cars support page (support.volvocars.com) for further information about updating maps. Or contact a Volvo dealer.

Related information

- Quick guide to map navigation (p. 6)
- Updating map data with MapCare (p. 52)

License agreement for map navigation

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◀◀ **Related information**

- Updating map data with MapCare (p. 52)
- Copyright for map navigation (p. 60)

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. 52)
- License agreement for map navigation (p. 58)

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