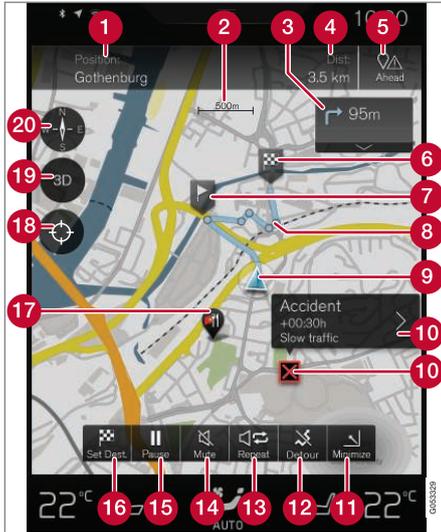




WEB EDITION
SENSUS NAVIGATION



Text and symbols on the map

- 1 The vehicle's current location and a button for viewing the itinerary
- 2 Map scale
- 3 List of guidance points in the itinerary
- 4 Remaining distance to the destination/estimated time of arrival and a button for changing headers
- 5 Button for listing the itinerary's Points of Interest (POI) and traffic information
- 6 Final destination
- 7 Intermediate destination
- 8 Guidance point
- 9 The vehicle (blue triangle) on the planned route
- 10 Traffic problem and related information
- 11 Minimize (expanded view) or maximize (full-screen map view)
- 12 Calculating a new route
- 13 Repeat the most recent voice guidance
- 14 Voice guidance On/Off
- 15 Pause/resume guidance
- 16 Set a final destination/intermediate destination
- 17 POI (in this case, a restaurant)
- 18 Button to reset the map to follow the vehicle (blue triangle)
- 19 Button for toggling between 2D/3D map views
- 20 Compass and button for north at the top of the map/current direction at the top of the map

SENSUS NAVIGATION

Sensus Navigation is a satellite-based system providing guidance/directions to a destination and in certain markets, also traffic information.

The system includes features that enable you to set itineraries, search for certain types of points of interest (POIs) along your route, store special destinations, obtain traffic information en route, etc.

The system shows the vehicle's exact location and if at any time you should decide to deviate from the route originally set, a new one will automatically be calculated to your destination.

By enabling you to reach your destination quickly and by the most direct route, Sensus Navigation also helps contribute to improving the environment.

To help you fully utilize the features and benefits offered by Sensus Navigation, we suggest that you familiarize yourself with the information provided in this owner's manual.

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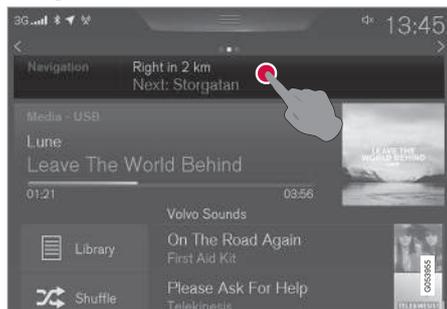
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GETTING STARTED

Getting started with Sensus Navigation

The vehicle's electrical system (including the navigation system) is activated automatically when the driver's door is opened.

Navigation On/Off



On

If the navigation system does not show a map on the center display, tap **Navigation** on the upper line on the screen to display a map showing the area around the vehicle and the vehicle's current location (a blue triangle) on the map.

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 while the vehicle is unlocked and is instead active in the background.

NOTE

The system can be used even when the engine is not running but will be switched off automatically if the battery charge level is low.

Related information

- Navigation displays and controls (p. 16)
- Quick guidance to a destination (p. 8)

Quick guidance to a destination

The following table provides quick information about setting a destination and starting navigation.

Selecting a destination on the map

Step	Center display/menu	Action
1	If a map is not shown on the center display.	Press the Home button under the display to open the display's Home view.
2	Home view is displayed.	Tap Navigation in the center display's upper menu bar.
3	A map is displayed.	 <p>If this button is displayed, tap it to maximize the map.</p>
4	The map is displayed.	Scroll to the desired location on the map and press and hold that position on the screen to set it as a destination.

Step	Center display/menu	Action
5	Start navigation is displayed on the screen.	Tap Start navigation .
6	A map showing the route to your destination is displayed.	Guidance will begin. Follow the directions on the instrument panel.

GETTING TO KNOW SENSUS NAVIGATION

Common navigation system features

The most common features of the navigation system are described here.

- Where am I?
- Direction at the top of the map/North at the top of the map
- 2D for 3D view
- Zoom
- Scroll
- Find the vehicle symbol on the map
- Change the headers displayed
- Go back to the map view
- "Wrong" language in illustrations

Where am I?

Where is the vehicle's current location?

- Click the vehicle symbol (blue triangle) for information directly on the map.

Direction at the top of the map/North at the top of the map



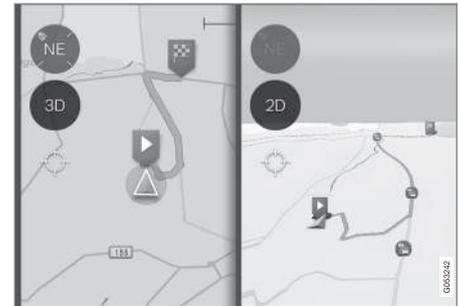
Tap the compass to change the way in which the vehicle symbol moves on the map

The driver can choose between two views:

- North will always be at the top of the map on the center display and the vehicle symbol will move in the current direction on the map (left is west, right is east, etc.).
- The vehicle symbol will always move towards the top of the center display. The map will rotate under the vehicle symbol according to the direction in which the vehicle turns. The compass symbol indicates north (N) on the map and the vehicle's direction (NE in the illustration).

Compass symbols	Direction
N	North
NE	Northeast
E	East
SE	Southeast
S	South
SW	Southwest
W	West
NW	Northwest

2D or 3D view



Tap 2D/3D to toggle between a 2D/3D map display

In 3D, the vehicle's direction is always upward on the center display. The map will rotate under the

vehicle symbol according to the direction in which the vehicle turns.

The compass symbol indicates north (N) on the map and the vehicle's direction is shown at the center of the compass.

The map scale is not shown in 3D.

2D is described in the previous section "Direction at the top of the map/North at the top of the map."

Zoom

Zoom in

To make the map larger:



Tap the center display twice in quick succession with one finger.

or



"Stretch" with two fingers on the center display.

Zoom out

To make the map smaller:



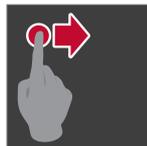
Tap the center display once with two fingers.

or



"Pinch" with two fingers on the center display.

Scroll



Place a finger on the map and swipe in the desired direction.

Scrolling is only possible with the map in maximized view.

Find the vehicle symbol on the map



Tap the crosshairs

After scrolling/zooming, it may be difficult to find the vehicle's location on the map. To find it:

- Tap the crosshairs: the map will be reset and will follow the vehicle symbol.

Change the headers displayed



Tap to change map headings

The following headers can be displayed on the map:

- Destination, Estimated Time of Arrival (ETA) or Remaining Time to Arrival (RTA)
- or
- Position and the distance to the destination (Dist).

Changing headers is only possible with the map in maximized view.

Returning to the map view



Home button below the center display

To return to the map view from another part of the system:

1. Press the Home button.
2. If the center display shows its Home view, tap **Navigation** at the top of the screen.

Related information

- Navigation in the instrument panel (p. 44)
- Sensus Navigation settings (p. 44)

CONTROLS

Navigation displays and controls

Volvo Sensus Navigation is presented on the instrument panel and head-up display* and controlled using center display on-screen buttons, the right-side steering wheel keypad and voice commands.

Center display



Searching for and setting destinations and making navigation settings are done on the center display.

If the map is not showing on the center display, tap **Navigation** at the top of the center display's Home view.

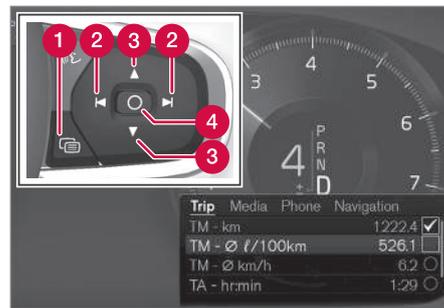
Instrument panel



During a trip, the driver receives visual guidance on the instrument panel and voice guidance through the infotainment system's speakers.

Right-side steering wheel keypad and instrument panel

Some of the navigation system's functions, such as **Take me home**, are controlled from the right-side steering wheel keypad.



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

Opening/closing the menu

- Press Open/Close (1).
 - > Menus with alternatives will be opened or closed. The menu will close automatically after a short period or after certain selections have been made.

Navigating and making selections in a menu

1. Scroll among the alternatives using control (3).
2. Confirm or mark a choice by pressing control (4).
 - > The function will be activated and after making certain choices, the menu will close.

Head-up-display (HUD)*



Navigation guidance on the windshield

The driver can also get guidance and information from the navigation system on the lower section of the windshield.

The position of the HUD can be adjusted (see the article "Head-up display").

Voice control



Many settings can be made using voice commands.

Press the voice button on the right-side steering wheel keypad, wait for the tone and then say, e.g., "Drive **Home**."

Using voice commands is explained in greater detail in the articles "Navigation system voice control," "Voice control," and "Voice control settings."

Related information

- Setting a destination by entering the text of your choice (p. 27)
- Navigation system voice commands (p. 20)
- Voice control (p. 21)
- Using voice commands (p. 22)
- Voice control settings (p. 23)

VOICE CONTROL

Navigation system voice commands

Many of the navigation system's functions can be activated using voice commands.

The procedure for using voice control is described in greater detail in the articles "Voice control," "Using voice control" and "Voice control settings."

Voice commands

The following list contains examples of commands that are unique to navigation system.

- To use the voice control system, press the  on the right-side steering wheel keypad

and say one of the following commands after the tone:

- **"Navigation:** Starts a navigation voice command dialog and displays available commands.
- **"Take me home:** Guidance will be given to the location set as **Home**. The location for **Home** is set using the **Set home address** function in **Favorites** in the Top view in the center display.
- **"Go to [City]:** Enter a city as a destination, e.g., "Go to New York."
- **"Go to [Address]:** Enter an address as a destination, e.g., "Go to 125 43 St, New York."
- **"Go to [Zip code]:** Enter a zip code as a destination, e.g., "Go to 07405."
- **"Go to [Name]:** Enter a name from a list of contacts e.g., "Go to Robyn Smith."
- **"Search [POI]:** Search for a POI¹, which is always sorted according to POIs "around the vehicle." To search along the route, say **"Along the route"** when the list of results is displayed.
- **"Search [POI] in [a city]:** Search for a POI¹ in city/location.
- **"Search [POI category]:** Search for a POI¹ category, which is always sorted "Around the vehicle."

¹ You can opt to call the POI or set it as a destination.

- **"Search [POI category] in [a city]:**
Search for a POI¹ category in a city/location.
- **"Enter contact:** Enter a contact from a list of phone contacts as a destination.
- **"Enter POI:** Enter a POI as a destination.
- **"Change country/Change state:**
Changes the country/state in which a search is conducted.
- **"Enter address:** Enter an address as a destination.
- **"Enter zip code:** Enter a zip code as a destination.
- **"Add intersection:** Enter an intersection as a destination.
- **"Show favorites:** Shows a list of **Favorites** in the center display's Top view.
- **"Clear itinerary:** Deletes all intermediate destinations in an itinerary.
- **"Repeat voice guidance:** Repeats the most recent guidance instruction.
- **"Pause guidance:** Pauses guidance on the map.
- **"Resume guidance:** Resumes guidance on the map.
- **"Turn off voice guidance:** Turns voice navigation guidance off.
- **"Turn on voice guidance:** Turns voice navigation guidance on.

¹ You can opt to call the POI or set it as a destination.

Related information

- Navigation displays and controls (p. 16)
- Voice control (p. 21)
- Using voice commands (p. 22)
- Voice control settings (p. 23)

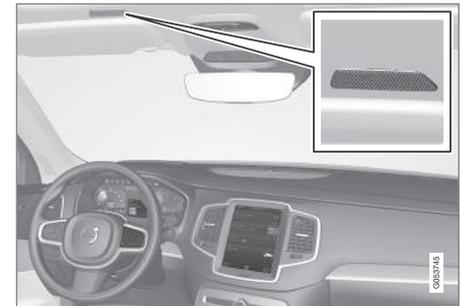
Voice control

Voice commands make it possible for the driver to voice-control certain functions in the media player, a Bluetooth-connected cell phone, climate system and the Volvo navigation system*.

Voice control offers convenience and enables the driver to keep his/her hands on the steering wheel and concentrate on driving and the traffic situation around the vehicle.

WARNING

As the driver, you have full responsibility for operating the vehicle safely and adhering to all applicable traffic regulations.



VOICE CONTROL

Input to the system is in dialog form and comprises commands from the driver and a verbal response from the system.

The voice control system uses the same microphone as the Bluetooth hands-free system and system responses come via the infotainment system's speakers.

In certain cases, text messages are also provided in the instrument panel.

The functions are controlled using the right-side steering wheel keypad and settings are made from the center console.

System updates

The voice control system is being constantly improved and updates should be downloaded for optimal functionality. See the article "System updates" and the Volvo Cars support site support.volvocars.com.

Related information

- Using voice commands (p. 22)
- Voice control settings (p. 23)
- Navigation system voice commands (p. 20)

Using voice commands

The following is an introduction for using voice commands.



Press the button on the right-side steering wheel keypad to activate the system and initiate a voice command dialog.

Keep the following points in mind when using voice commands:

- When giving a command, speak at your usual speed and in a normal tone of voice **after the tone**.
- Avoid speaking while the system is responding. Commands cannot be processed during a response.
- Avoid background noises in the cabin when using the system by closing the vehicle's doors, windows and panoramic roof* when giving voice commands..

Voice command dialogs can be cancelled by:

- Saying "**Cancel**".
- By pressing and holding the  button on the right-side steering wheel keypad.

To speed up a command dialog or to skip system responses, press the  button on the right-side steering wheel keypad when the system is responding.

Voice command examples

Press , say "**Call**"-"**[First-name]**"-"**[Last-name]**"-"**[Number category]**" to call a contact in your phonebook if the person has more than one phone number listed (i.e., home, mobile, work, etc.).

For example, press  and say "**Call**"-"**Robin**"-"**Smith**"-"**mobile**".

Commands/phrases

The following commands can always be used:

- **Repeat:** the system will repeat the most recent voice instruction.
- **Cancel:** cancel the dialog.
- **Help:** Initiates a help dialog. The system will provide several alternative commands that can be used in a given situation.

The commands for specific situations are described in the respective articles such as "Cell phone commands", etc.

Numbers

Numbers can be spoken individually, in groups or the entire phone number can be given at one time.

Related information

- Voice control (p. 21)

Voice control settings

There are a number of settings that can be made for the voice control system.

Open the center display's Top view and tap **Settings → System → Voice Control** and select settings.

- **Repeat Mode**
- **Gender**
- **Speech Rate**

Sound settings

Open Top view and tap **Settings → Sound → System Volumes → Voice Control**.

Changing languages

The voice control system only understands that languages that can be selected.

Changing the language for this system also affects menus, messages and help texts.

Open Top view and tap **Settings → System → Language**.

Related information

- Voice control (p. 21)

SETTING A DESTINATION

Entering a destination

There are several different ways of choosing a destination.

A destination can be chosen by:

- Clicking on the map
- Entering free text or coordinates
- Selecting a recently set destination
- Selecting a position marked as a favorite from the library
- Selecting a saved destination from the library
- Selecting a point of interest (POI)
- Entering an Address: e.g., State/city/street/intersection/house number

Select one of the alternatives and follow the instructions given.

Destinations and intermediate destinations (waypoints)

The first location selected will be the itinerary's **final destination**.

Any other locations will be the itinerary's **intermediate destinations (waypoints)**.

An itinerary and its destinations can be edited at any time, see also the section "Editing an itinerary" in the article "Itinerary and alternate routes."

Related information

- Viewing the itinerary and alternate routes (p. 36)
- Setting a destination by tapping the map (p. 26)
- Setting a destination by entering the text of your choice (p. 27)
- Setting a destination using Recent/Favorites/Library (p. 29)
- Using a point of interest (POI) as a destination (p. 31)
- Setting a destination by entering an address (p. 32)

Setting a destination by tapping the map

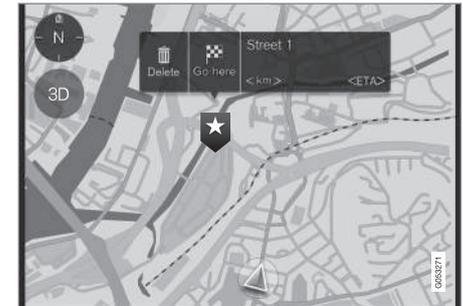
Tapping a point on the map is one way to set a destination.

To do so:



Begin by verifying that the map is in full-screen mode by tapping the symbol (if it is displayed).

1. Scroll to the desired point on the map.
2. Press the point until an icon is created there and a menu is displayed.



3. Select **Go here** to start guidance to that point.

Deleting the icon

Tap **Delete**.

Changing the icon's location

Press the icon on the map, drag it to the desired position and release it.

Related information

- Entering a destination (p. 26)

Setting a destination by entering the text of your choice

Entering the text of your choice is one way to set a destination.

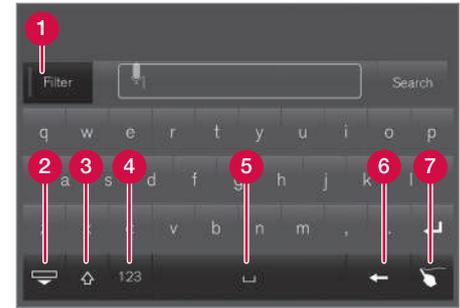
Keyboard

The center display's keyboard can be used to enter most characters when searching for a destination.



To display the keyboard:

Tap **Set dest.** in the lower margin. The keyboard opens for entering text.



Keyboard function keys

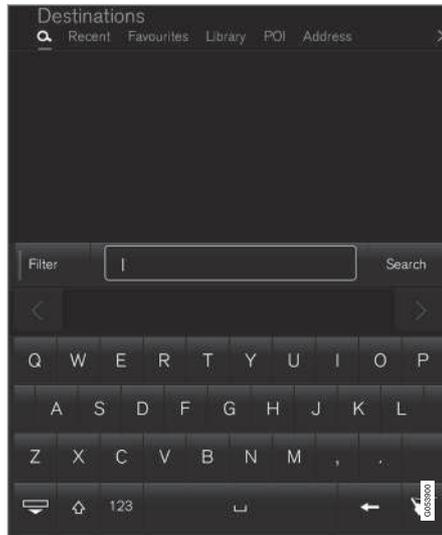
- 1 Filter: limit/filter the list of possible destinations.
- 2 Hide the keys to display a longer list of possible destinations. Tap the field for entering text to return to the keyboard.
- 3 Tap to toggle between upper and lower case characters.
- 4 Numbers and special characters
- 5 Space bar
- 6 Delete characters to the left of the cursor.
- 7 Tap to display an area where you can "write" text.

For additional information about using the center display's keyboard, see the article "Using the center display keyboard."

SETTING A DESTINATION

Entering the text of your choice

Enter text to search for e.g., streets, cities, map coordinates or points of interest (POIs).

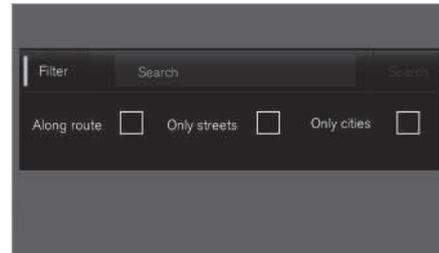


1. Enter a word. Possible destinations meeting your search criteria will be listed according to their distance from the vehicle symbol on the

- map (or from the center of the map if it has been scrolled).
2. Select/mark a selection in the list. Its **Info card**¹ will be displayed.
3. Follow the instructions on the center display and activate guidance to the destination.

Filter

Several filters can be used to limit the size of the list.



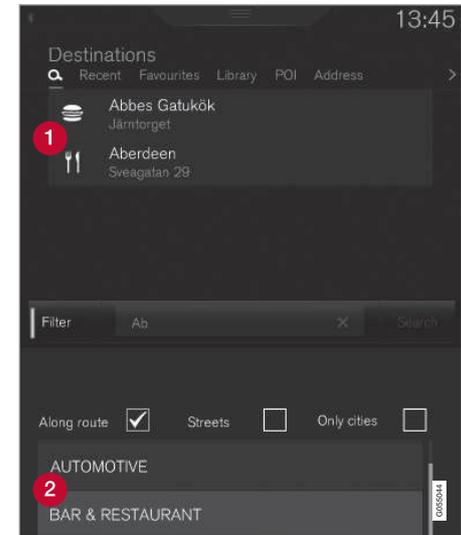
Filters

The filters available may vary:

- **Along route:** Lists only destinations found along the route.
- **Streets:** Lists only streets/roads meeting the search criteria.
- **Only cities:** Lists only cities/towns meeting the search criteria.

Filter for POIs

A list of available POIs is displayed at the bottom of the screen, under the three filters.



- 1 POIs filtered from the marked category (2)
- 2 POI categories (there may also be sub-categories).

Only POIs from the marked category will be listed and only the **Along route** filter can be combined with POI.

¹ See also the article "Information cards on the map."

Coordinates

A destination can also be set by entering its map coordinates.

- For example, enter: "N 58.1234 E 12.5678" and tap **Search/**.

Map coordinates can be written in different ways, such as:

N 58.1234 E 12.5678 (with spaces)

N58.1234 E12.5678 (without spaces)

58.1234N 12.5678E (with the points on the compass **after** the coordinates)

58.1234 -12.5678 (with a hyphen **without** the points on the compass)

Both periods [,] and commas [,] can be used.

Related information

- Entering a destination (p. 26)
- Navigation displays and controls (p. 16)
- Information cards on the map (p. 39)

Setting a destination using Recent/Favorites/Library

Selecting from a list is one way of setting a destination.

To display these lists:

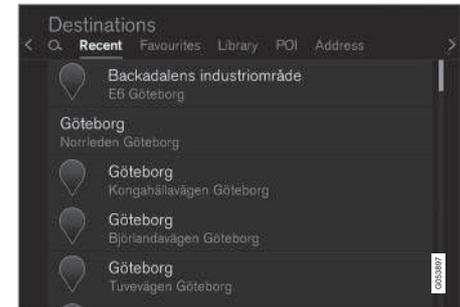


- Tap **Set dest.** in the lower margin. A keyboard will be displayed with search alternatives in the upper margin.
- Continue by selecting one of the lists in the upper margin:

- Recent**
- Favorites**
- Library**

After marking an alternative, it will be added as a destination by tapping the **Start navigation** or **Add as waypoint** buttons.

Recent



This is a list of all searches that have been made. Scroll through the list and select.

This menu alternative is also available in the instrument panel and can be displayed using the right-side steering wheel keypad (see also the article "Navigation system displays and controls").

Favorites



This is a list of locations that have been set as favorites from the **Library**. Scroll through the list and select.

A deleted location in **Favorites** always remains in the **Library** but the "star" will not be highlighted. To return it to the list of **Favorites**, go to the **Library** and tap the location's star again.

Use **Set home address** to program a destination that is used often. A destination set as **Home** will also be also available in the instrument panel and can be displayed using the right-side steering wheel keypad (see also the article "Navigation system displays and controls").

Use **Edit list** to edit destinations in the list.

Library



This is a list of saved destinations and itineraries. The most recently saved one will be at the top of the list. Scroll through the list and select.

Tap the destination's "star" to select/deselect it as a favorite. A selected destination will also be shown under the heading **Favorites**.

A destination deleted from the **Library** will also be deleted from **Favorites**.

The library can be sorted by:

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

With **Received**, destinations sent to the vehicle using the Send to Car function can be filtered. New, unread destinations have a BLUE marker

that disappears when they have been read. See the article "Saving a destination with send-to-car" for additional information.

Use **Edit list** to edit the respective destinations with respect to Name, Location, Internet address and Phone number (max. 3 phone numbers per destination).

Related information

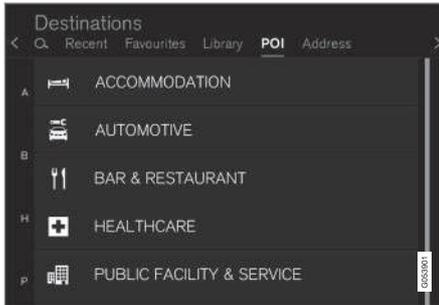
- Saving a destination with Send to Car (p. 32)
- Navigation displays and controls (p. 16)
- Entering a destination (p. 26)

Using a point of interest (POI) as a destination

Selecting a point of interest (POI) is one way of setting a destination.



1. Tap **Set dest.** in the lower margin. A keyboard will be displayed with search alternatives in the upper margin.
2. Continue by selecting a **POI** from the upper margin.



Examples of POIs

Many POIs (e.g., restaurants) have sub-categories (e.g., Chinese restaurants).

Proposed POIs are listed according to their distance to the vehicle symbol or the center of the map (if it has been scrolled).

See the article "Map settings" for information about selecting the POIs to be displayed on the map. This will show the selected POIs available in the area. This setting does not affect searches for POIs to be used as destinations (even ones that have not been selected for display can be used as a destination).

Certain POIs will only appear if the map scale is greater than 1 mi. (1 km).

NOTE

- The appearance, number and variations of POIs vary from market to market.
- Some symbols may be added/deleted when the navigation system's software is updated. The POIs available for the current map system can found in the menu system.

Filters

When an itinerary has been activated and a POI category has been selected, a filter will be available to limit the search list to only show POIs along the route. This list can then be sorted by name or distance.

- **Along route:** only shows POIs along the route.

With filters activated, the list can be sorted by **Name** or **Distance**.

Proposed POIs are listed according to their distance from the vehicle symbol on the map or from the center of the map if it has been scrolled.

Related information

- Entering a destination (p. 26)
- Map settings (p. 45)

Setting a destination by entering an address

Entering an address is one way to set a destination.



Tap **Set dest.** in the lower margin. A keyboard will be displayed with search alternatives in the upper margin.

2. Continue by selecting an **Address** from the upper margin. Additional search fields will be added.



Examples of search fields

The following search alternatives may vary somewhat from market to market. Only those available for your market will be shown in the center display.

Select any of the following alternatives and enter text using the center display's keyboard:

- **Country/State/Province**
- **City/Territory/Zip code**
- **Address**
- **Number**
- **Junction**

Related information

- Entering a destination (p. 26)

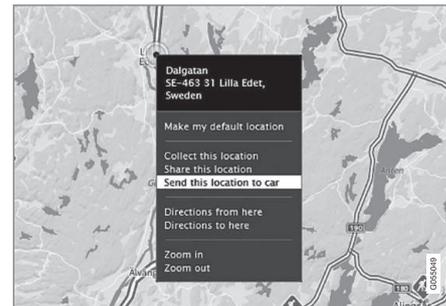
Saving a destination with Send to Car

Using the Send to Car feature is one way to save a destination.

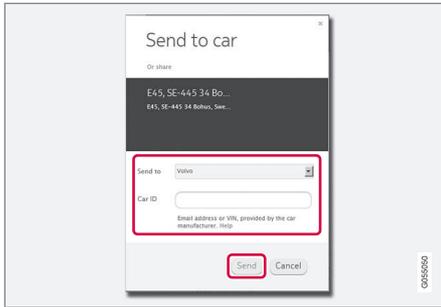
Send to Car is a function that makes it possible to add a destination/location to the navigation system from a computer.

Send to Car can also be done from a cell phone using Volvo's Volvo On Call (VOC) service.

VOC can also be used to send a destination from the VOC customer service center to the vehicle.



Right-click the desired location and select Send this location to car



Enter the vehicle's VIN number or Volvo ID and select Send

1. Go to the Internet site here.com: a map service will open.
2. Right-click the desired location.
3. Select Send this location to car.
4. Enter the vehicle's VIN number or Volvo ID.
5. Select Send: the location will be sent to the vehicle's library (list of destinations), where it will be indicated by a blue marker.

The driver will then be alerted to this by a symbol that illuminates in the center display indicating that a destination/location has been sent to the vehicle. Tap the symbol and a card will open showing information and possible alternatives.

Please note that the procedure shown here is just an example from one of many map service providers. See the Volvo Cars support site

(support.volvocars.com) for more information about the Send to Car function.

Related information

- Setting a destination using Recent/Favorites/Library (p. 29)
- Entering a destination (p. 26)

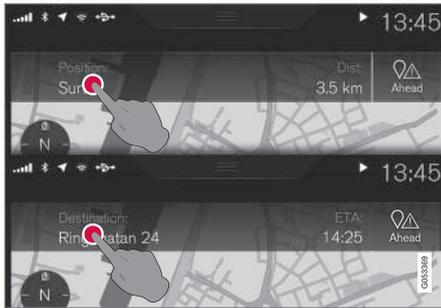
TRAVEL PLAN AND ROUTE

Viewing the itinerary and alternate routes

During guidance, it is possible to view the itinerary or see if alternate routes are available.

Viewing the itinerary

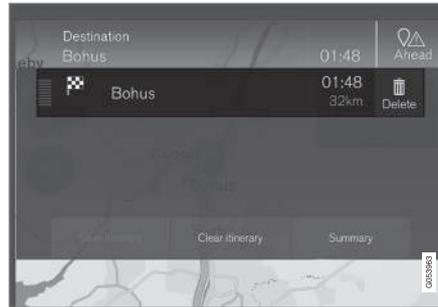
To view/display the itinerary:



Tap **Position:** or **Destination:** to display the current itinerary.

Editing an itinerary

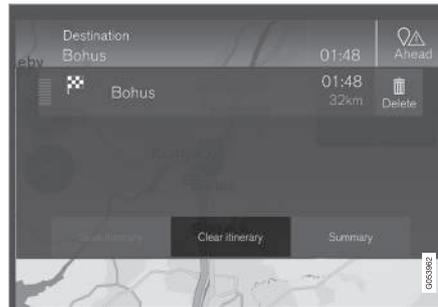
An itinerary can be edited:



Select a line in the itinerary and follow the instructions provided

Deleting an itinerary

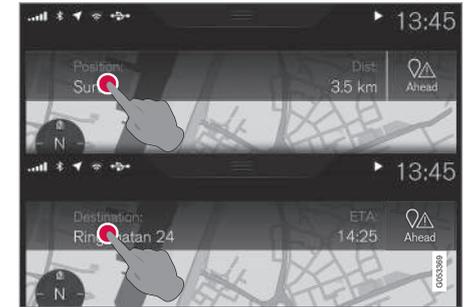
The entire itinerary or intermediate destinations (waypoints) can be deleted:



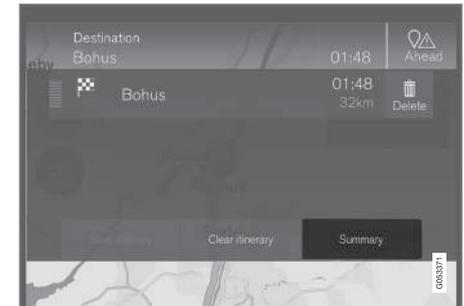
Select a particular waypoint or Clear itinerary and confirm the choice

Viewing alternate routes

The driver can check for alternate routes at any time while guidance is underway. To do so:



1. Tap **Position:** or **Destination:** to display the current itinerary.



2. Tap **Alternative routes** to view alternate routes (if available) for the remainder of the itinerary.

	Highway km	Ferry m	Car train m	Arrival km
<input type="radio"/> Eco	1.8	---	---	01:46 26
<input type="radio"/> Fast	18	---	---	01:45 31
<input type="radio"/> Scenic	---	---	---	01:50 28

3. Select one of the following:

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

4. Tap the map. The updated itinerary will be shown on the map and guidance will resume.

See also the section "Alternate routes" in the article "Route settings."

Related information

- Guidance points in the itinerary (p. 37)
- Choosing a detour (p. 40)
- Information cards on the map (p. 39)
- Route settings (p. 47)

Guidance points in the itinerary

A list of coming guidance points helps the driver prepare for the next turn, etc. by e.g., getting into the correct traffic lane, etc.



Guidance points in an itinerary

A list of coming guidance points will appear on the map when the itinerary is activated. The list can be expanded by tapping the down-arrow (tap the up-arrow to minimize). The next guidance point is always at the top of the list.

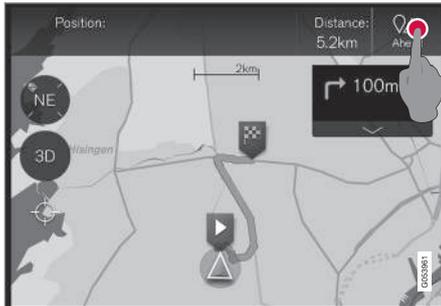
Tapping any of the guidance points in the list will scroll the map to the related position. Subsequently tapping the map's crosshairs (below the 2D/3D button) will return you to the map guidance view where the map shows the vehicle's current location.

Related information

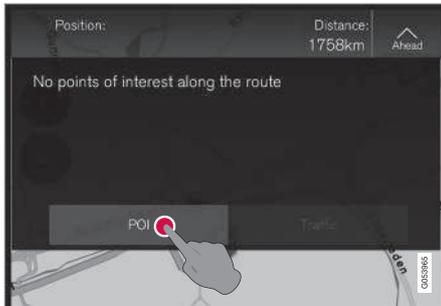
- Choosing a detour (p. 40)
- Viewing the itinerary and alternate routes (p. 36)
- Information cards on the map (p. 39)
- Route settings (p. 47)

POIs along the route

A list of points of interest (POIs) along the route can be displayed.



1. Tap Ahead



2. Then tap "POI" for information about POIs along the route

A list will show the current POI categories e.g., near an exit or service area

1. Select the desired category to open a list, sometimes with sub-categories.
2. Continue to "zoom in" until a particular POI can be selected.
3. Mark a POI in the list. Its information card will be displayed.
4. Select one of the card's alternatives and follow the instructions.

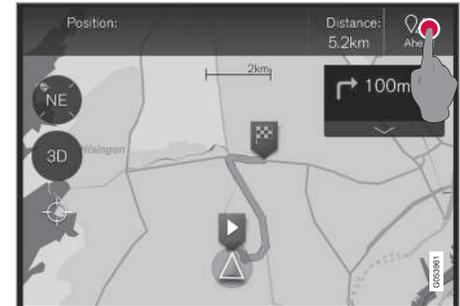
POI suggestions will be listed based on their distance on the map from the vehicle symbol or the center of the map (if it has been scrolled). The POI at the top of the list is closest to the vehicle.

Related information

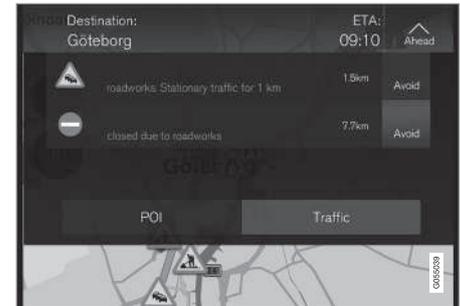
- Using a point of interest (POI) as a destination (p. 31)

Traffic problems along the route

A list of traffic problems along your route can be displayed.



1. Tap Ahead.



2. Then tap Traffic for information about traffic problems along the route

For information about a specific traffic tie-up:

- Select it in the list to get specific information.

Use the selection **Avoid** to be rerouted to an alternate route to your destination.

Related information

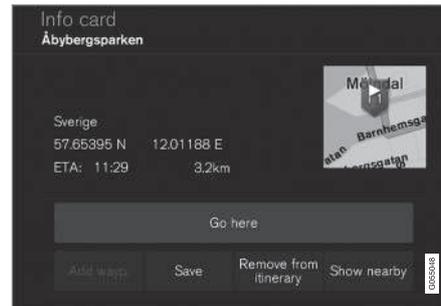
- Traffic information (p. 42)
- Traffic information settings (p. 49)

Information cards on the map

Each icon on the map for a destination, intermediate destination (waypoint), favorite, POI, traffic problem, etc., has an information card that can be opened by tapping the icon.

Opening an icon's **Info card** gives the driver up-to-date information about the respective icons.

Information and possible alternatives vary depending on the type of icon.



Example of an information card for a POI

In this example of a highlighted POI, the driver can select e.g.,:

- **Start navigation:** save the POI's location as a destination
- **Add as waypoint:** save the POI's location as an intermediate destination

- **Save:** save the location in the Library. See also the article "Entering a destination using Recent/Favorites/Library."

Related information

- Viewing the itinerary and alternate routes (p. 36)
- Guidance points in the itinerary (p. 37)
- Choosing a detour (p. 40)
- Route settings (p. 47)
- Setting a destination using Recent/Favorites/Library (p. 29)

Choosing a detour

Select **Detour** to avoid the next section of a route if e.g., a road is closed.

Detours



Detour button

1. Tap **Detour**: information about an alternate route will be displayed on the map (the alternate route's distance, estimated travel time, etc.).

Normally, only short detours are proposed to take you quickly back to your itinerary's original route if possible.



Detour and information about it

2. To **accept** the proposal, tap the sign with information about the detour

To **reject** the proposal, tap the **X** button (Cancel). Guidance will continue along the current route.



Detour activated

3. After a proposal has been accepted, guidance will resume, using the detour as the new route.

As an alternative to **Detour**, select another route and leave your itinerary's current route. The system will update the route automatically and continue guidance to your destination along the most suitable route.

See also the article "Viewing the itinerary and alternate routes."

Related information

- Route settings (p. 47)
- Viewing the itinerary and alternate routes (p. 36)
- Information cards on the map (p. 39)

TRAFFIC INFORMATION

SETTINGS

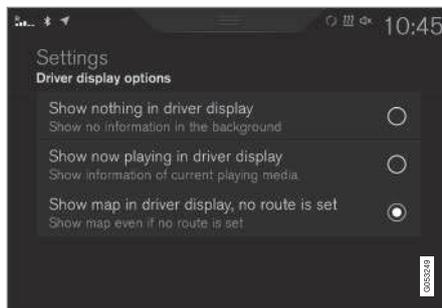
Navigation in the instrument panel

An activated route will automatically be displayed in the instrument panel.



Instrument panel (driver display)

The driver can opt to get navigation information in the instrument panel even if no route/itinerary has been set.



Activating/deactivating map display in the instrument panel

Path:

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

- Mark the alternative **Show Map**.

Related information

- Sensus Navigation settings (p. 44)
- Navigation displays and controls (p. 16)

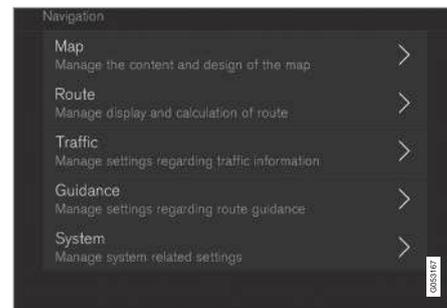
Sensus Navigation settings

These settings affect e.g., the way in which routes are selected and how information is displayed.

Navigation can be presented in various ways and the user can set different parameters to personalize the way in which the map is displayed on the screen.

To access the navigation settings:

1. Pull down the center display's Top view.
2. Select **Settings → Navigation → Route**.



The following types of settings are available:

- **Map:** settings for the content and appearance of the map
- **Route:** settings for the way in which routes are calculated and displayed
- **Traffic:** settings for traffic information

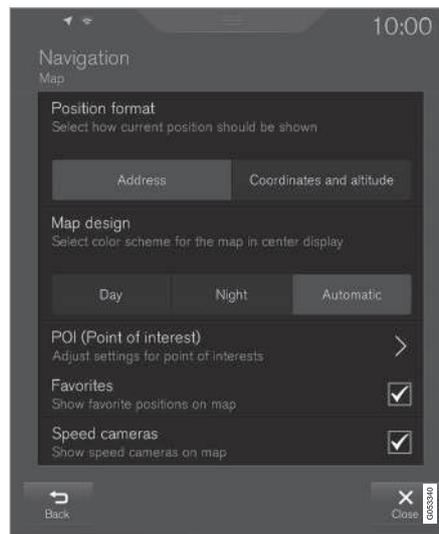
- **Guidance:** settings for guidance
- **System:** information about map and software updates

Related information

- Map settings (p. 45)
- Navigation in the instrument panel (p. 44)
- Route settings (p. 47)
- Traffic information settings (p. 49)
- Guidance settings (p. 50)
- System settings (p. 51)

Map settings

These settings are used to determine how the map will be displayed on the screen.



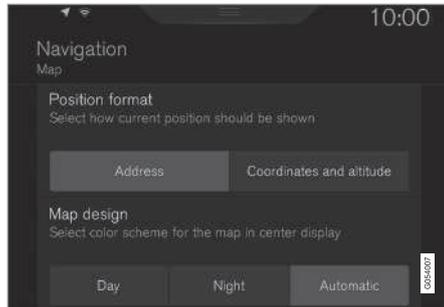
Settings → Navigation → Map

Alternatives:

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

² Not available in all markets.

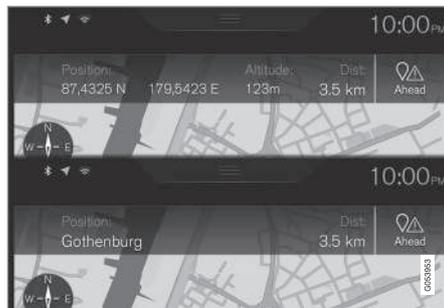
Location format



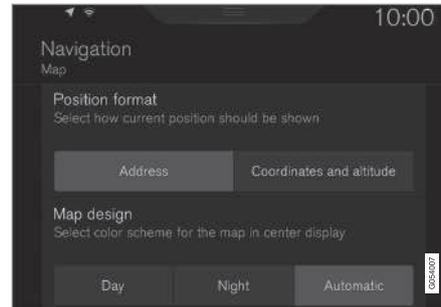
Select to display the current location by address or by coordinates:

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

The following illustration shows both alternatives:



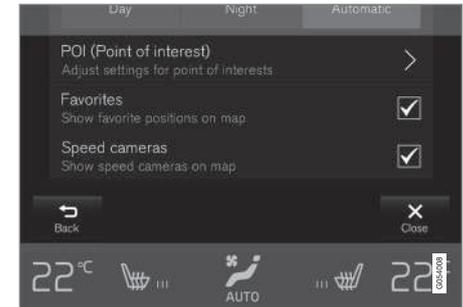
Map design



Select map background lighting:

- **Day:** bright colors
- **Night:** Dark colors for better night vision
- **Automatic:** the system will shift between **Day** and **Night** based on the ambient light in the passenger compartment.

POI

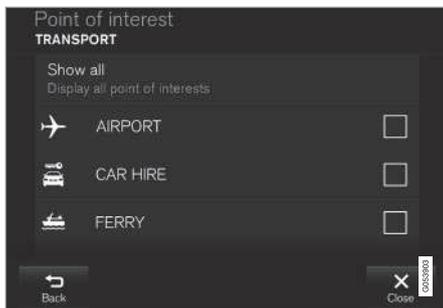


Select the POIs to be displayed on the maps. Each main category has two alternatives: every POI category will be displayed or...



POI main categories

...open the category by tapping the ">" symbol and selecting the sub-categories to be displayed.

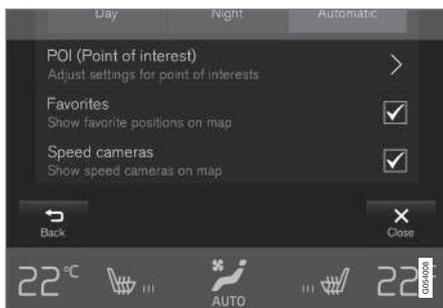


POI sub-categories

- Mark the POI categories to be displayed on the map. Exit the menu by tapping **Back** or **Close**.

See also the article "POI as destination."

Favorites

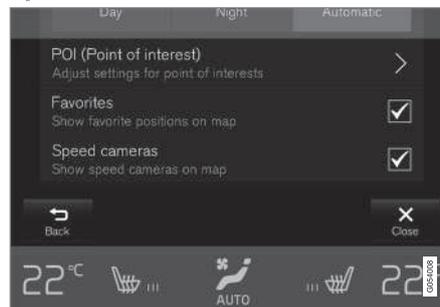


Choose to display **Favorites** on the map:

- Yes/No

See also the article "Entering a destination using Recent/Favorites/Library."

Speed cameras²



Choose to display speed cameras on the map:

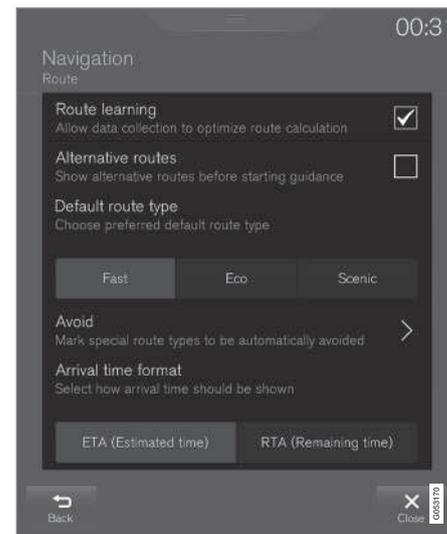
- Yes/No

Related information

- Sensus Navigation settings (p. 44)
- Setting a destination using Recent/Favorites/Library (p. 29)
- Using a point of interest (POI) as a destination (p. 31)

Route settings

The following settings determine how a route will be calculated.



Path:

Settings → Navigation → Route

² Not available in all markets.

SETTINGS

Possible settings:

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

Route learning

Allow data to be collected to optimize route calculations:

- 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

Show 3 alternative routes before guidance begins:

- Yes/No

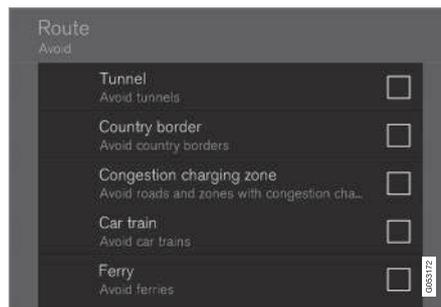
Default route type

Select the default type of route to be used:

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

This setting can also be changed while driving. See also the article "Itinerary and alternate route."

Avoid



Mark the types of roads to be automatically avoided when a route is calculated:

- **Tunnel**
- **International Border³**
- **Congestion Charge Zone**
- **Car train**

- **Ferry**
- **Highway**
- **Toll Roads**

Arrival time format

Choose among:

- ETA (Estimated Time of Arrival)
- RTA (Remaining Time to Arrival)

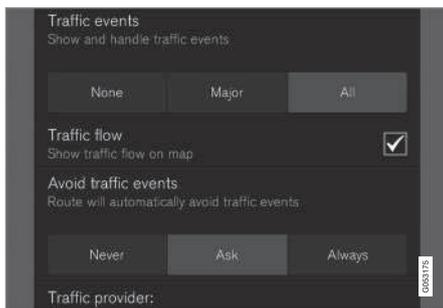
Related information

- Sensus Navigation settings (p. 44)
- Viewing the itinerary and alternate routes (p. 36)

³ Not available in all markets.

Traffic information settings⁴

These options determine how traffic information is presented.



Path:

Settings → Navigation → Traffic

(Settings > Navigation > Traffic)

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

Traffic events

Filter the type of traffic information to be displayed on the map and determine how a route is to be calculated. The alternatives are:

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

Free flowing traffic

Select if free-flowing traffic is to be displayed on the map (shown as green lines). Select:

- **Yes/No**

Orange or red lines are set according to the current traffic situation and cannot be avoided.

Avoid traffic events

Select to allow the system to automatically avoid traffic problems along the route. Select:

- **Never**
- **Ask**
- **Always**

When calculating a route, the system will take these settings into account. The driver will have to "confirm" events that occur during a trip.

Traffic provider:

Set the source of traffic information⁵

Related information

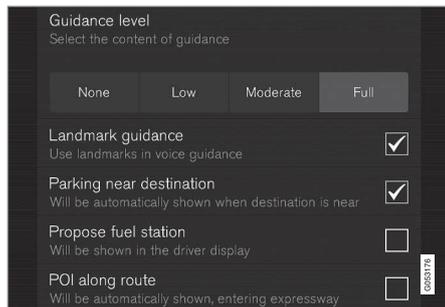
- Sensus Navigation settings (p. 44)
- Traffic problems along the route (p. 38)
- Traffic information (p. 42)

⁴ Not available in all markets.

⁵ Not available in all markets.

Guidance settings

This section lists guidance settings.



Path:



(Settings > Navigation > Guidance)

Selections:

- **Voice Guidance**
- **Landmark Guidance⁷**
- **Parking Near Destination**
- **Propose Gas Station**
- **POI Along Route**

⁷ Certain markets only.

Voice guidance level

Set the amount of guidance information provided:

- **None:** no automatic guidance but guidance can be requested manually once.
- **Low:** one message per guidance point.
- **Moderate:** up to three messages per guidance point, with limited information.
- **Full:** up to four messages per guidance point, with all available information provided.

Landmark guidance⁷

Select to use landmarks when guidance is given:

- Yes/No

Parking near destination

Select to display information about parking when you approach the destination:

- Yes/No

Propose gas station

Select to display information about nearby gas stations when the vehicle's fuel level is low:

- Yes/No

POI along the route

Select to display POIs along the route.

- Yes/No

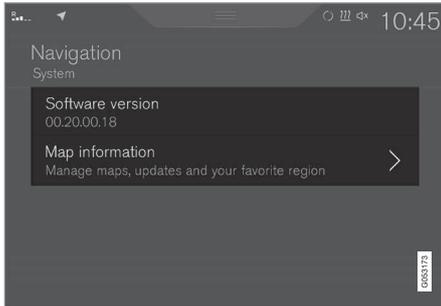
A list will be displayed automatically when driving on a highway. See also the article "POIs along the route."

Related information

- Sensus Navigation settings (p. 44)
- POIs along the route (p. 38)

System settings

This article describes settings for the navigation system software and map versions.



Path:

Settings → Navigation → System

Software version

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

See also the article "Updating map data with MapCare".

Map version

- **Map Information:** information about maps, updates and your favorite regions.

Related information

- Sensus Navigation settings (p. 44)
- Map updates with MapCare (p. 54)

MAP AND SYSTEM INFORMATION

Map updates with MapCare

Volvo Sensus Navigation remote updates can be done directly to the vehicle through a cell phone Internet connection or from a computer with a USB flash drive.

General update information

The system's maps are divided into a number of fixed regions. When updates are done, it is not necessary to update all of the regions at the same time but instead can be done for a specific region or several regions.

One or several regions can be updated from the vehicle's Internet connection. However, for major updates, a computer and a USB flash drive are recommended.

If an itinerary covers several regions, they should all have the same version number to enable the system to calculate the best route to the destination(s).

Updating the map structure

Changing the map structure may sometimes be necessary, e.g., if a region is added or if a large region is divided into smaller ones. If this is the case, normal updates may not be possible and a message will be displayed explaining what has happened.

In this situation, the entire map must be reinstalled from a USB flash drive. For additional information, contact a Volvo retailer.

Updating navigation system software

In addition to the maps, the system's software is being steadily developed and has to be updated occasionally. This may mean that newly downloaded map information may not be supported by the navigation system's software. If this happens, a message will be displayed indicating that the software needs to be updated. This can be done by a Volvo retailer or from a USB flash drive.

See the section "Software version" in the article "System settings."

Updates from the vehicle's Internet connection or from a USB flash drive

For detailed information, see the articles "Remote map updates" and "Map updates from the computer with a USB flash drive."

FAQs

Question	Answer
Can the map database be changed, e.g., from Europe to North America?	Yes, with certain exceptions. Contact a Volvo retailer for up-to-date information.
How long do map updates take?	This depends on the size of the file(s) and the speed of the Internet connection.

Question	Answer
How big is an update?	This varies from market to market. Consult a Volvo retailer.
Updating has not worked. What should I do?	Try the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

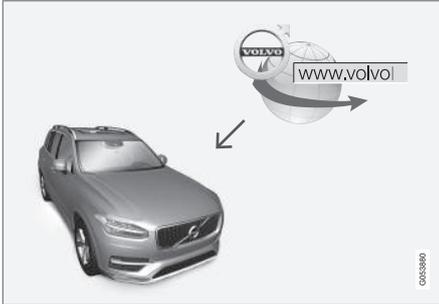
Related information

- Remote map updates (p. 55)
- Map updates from a computer with a USB flash drive (p. 55)
- Sensus Navigation troubleshooting (p. 62)
- Copyright (p. 60)
- Navigation license agreements (p. 57)
- System settings (p. 51)

Remote map updates

Some preparation is necessary before a remote update can be made through the vehicle's cell phone Internet connection.

Preparations



Remote update procedure

Internet connection

The vehicle has to be connected to the Internet using Bluetooth, Wi-Fi, through a cable connected to the USB socket or using the vehicle's integrated modem. A symbol showing the connection's status can be seen in the center display's status bar.

See also the articles "Internet connected vehicle" and "Connecting to the Internet."

Downloading maps from the Internet

1. From the center display's Home view, swipe from right to left to access App view.
2. Select the **Remote update service** app and follow the instructions provided.

For additional information, see the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

Related information

- Map updates with MapCare (p. 54)

Map updates from a computer with a USB flash drive

Some preparation is necessary before a USB map update can be carried out.

Preparations



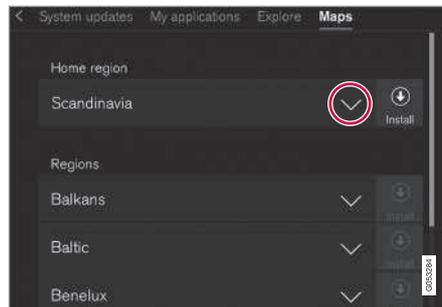
Computer/USB update procedure

USB flash drive

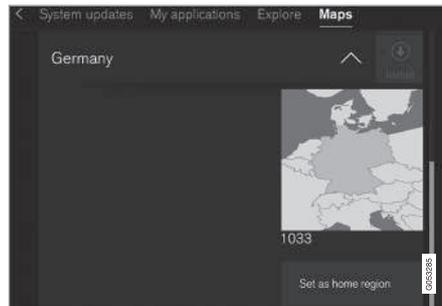
For use in updates, a USB flash drive has to meet the following requirements:

Parameter	Requirement
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 file size varies from market to market. See the file size under "Detailed information" for your market at the Volvo Cars support site (support.volvocars.com).

Current map version



Generic example of map regions. Tap the down-arrow for additional information



Generic example of a region. Tap Set as home region to set it as a home region

Begin by determining the map version before beginning a download. To do so:

1. From the center display's Home view, swipe from right to left to access App view.
2. Select the **Remote update service** app.
3. Mark a region and tap the down-arrow for information about the current map version or tap **Install** to see if there is a newer version.

Downloading maps from the Internet to a USB flash drive

From a computer with an Internet connection, connect to the Volvo Cars support site (support.volvocars.com) and follow the instructions on the screen.

1. Tap "Detailed information" for the region to be updated.
2. Information about the latest maps for the region will be displayed. Verify that it is newer than the version in the vehicle.
3. Connect a USB flash drive to the computer and download the update to the USB drive.

The amount of time for the download varies according to the size of the file and the speed of the Internet connection.

Transferring the updated maps from the USB drive to the vehicle

General information

This transfer may take between 30–60 minutes depending on the file size. This must be done with the navigation and infotainment systems activated.

If the engine is not running, it may be necessary to connect a battery charger to avoid discharging the battery. An update can also be done while driving.

During a complete map download, certain infotainment system functions may not be available or have limited functionality:

- Navigation
- Voice commands
- Information/media stored on the vehicle's hard drive

Updating

1. Activate the navigation system (see the previous section "Current map version").
2. Connect the USB drive to the vehicle's USB socket in the tunnel console.
3. The navigation system will automatically detect any available updates. The update's progress will be displayed on the screen as %.

The driver must tap **Confirm** to start the update or **Cancel** to interrupt it.

4. Tap **Confirm**. The update will begin and progress information will be shown on the center display.
5. The center display will indicate when the update has been completed. Remove the USB drive from the socket.
6. Verify that the correct map information has been transferred by repeating the procedure in "Current map version."

Interruptions

What happens if...	Answer
...the infotainment system is turned off while an update is in progress?	The process will pause and will continue automatically when the system is reactivated.
...the USB flash drive is removed from the USB socket while an update is in progress?	The process will pause and will continue automatically when the USB drive is reconnected to the USB socket.

If an update is interrupted, an explanatory text will always appear on the center display.

For additional information, see the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

Related information

- Map updates with MapCare (p. 54)

Navigation license agreements

The following is information for the end-user of the Sensus Navigation system.

END USER LICENSE AGREEMENT FOR DISTRIBUTION BY HERE FOR THE AMERICAS/ASIA PACIFIC

END-USER TERMS

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Related information

- Map updates with MapCare (p. 54)
- Copyright (p. 60)

Copyright

For © Copyright information, see the article "Licence agreements for map navigation."

Related information

- Map updates with MapCare (p. 54)
- Navigation license agreements (p. 57)

COMMON ERRORS

Sensus Navigation troubleshooting

The following information provides answers to frequently asked questions.

The vehicle's location on the map is not correct

The navigation system's accuracy is approx. 65 ft (20 meters).

Accuracy may be reduced slightly when driving on a road that is parallel with another road, winding roads, multi-level roads and long straightaways with no distinct curves.

High mountains, buildings, tunnels, viaducts, multi-level roads, etc., may also affect GPS signal reception, which may also reduce the system's capacity to calculate the vehicle's location accurately.

The system does not always calculate the fastest/shortest route

Route calculation takes factors such as distance, road width, type of road, number of right/left turns, traffic circles, etc., into account to find the theoretically best route. Familiarity with an area may enable you to find a more efficient route to your destination.

The system uses toll roads, highways or ferries even though I have chosen to avoid them

When calculating longer routes, the system may have to choose major roads for technical reasons.

The types of roads that you have chosen to avoid will not be used if there are viable alternatives.

After being transported, the vehicle's location on the map is not correct

If the vehicle has been transported (e.g., on a ferry or train) where GPS signals have been blocked, it may take up to 5 minutes before its location will be shown correctly.

The car symbol moves erratically after new tires have been installed

In addition to GPS signals, the navigation system also uses the speedometer and a gyroscopic sensor to calculate the vehicle's current location and speed. If e.g., a spare tire or snow tires have been installed, the system has to "learn" the new tire dimensions. To do so, drive for a short period on a road with unobstructed GPS reception.

The map does not correspond to actual road conditions

Due to road changes/additions/rerouting/new traffic regulations, the map database may not be up-to-date. The database is continuously being updated. Consult your Volvo retailer.

The car symbol jumps forward or spins

Before you begin to drive, the system may need several seconds to determine the vehicle's location.

Switch off the navigation system and the ignition. Restart but remain at a standstill for a minute or so before driving.

The map information is not up-to-date

See the next heading.

How can I check which map version I have?

1. From the center display's Home view, swipe from right to left to display App view.
2. Select the **Remote update service** app.

This contains information about the current map version. See also "Updating map data with MapCare" for additional information or contact your Volvo retailer.

Related information

- Getting started with Sensus Navigation (p. 8)
- Map updates with MapCare (p. 54)

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