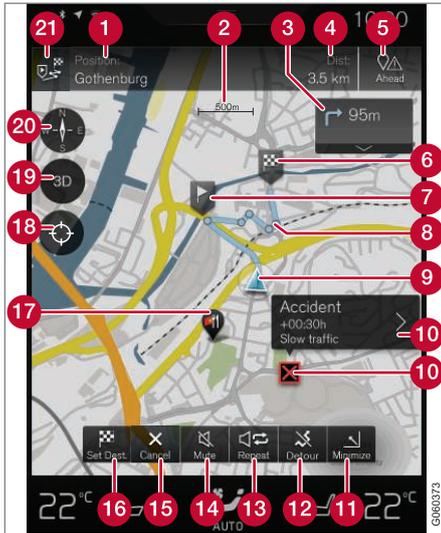




SENSUS NAVIGATION



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 Cancel 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
- 21 Itinerary and alternate route

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.



NOTE

- Do not export your Volvo to another country before investigating that country's applicable safety and exhaust emission requirements. In some cases it may be difficult or impossible to comply with these requirements. Modifications to the emission control system(s) may render your Volvo not certifiable for legal operation in the U.S., Canada and other countries.
- All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Please note that some vehicles may be equipped differently, depending on market-specific adaptations or special legal requirements. Optional equipment described in this manual may not be available in all markets.
- Some of the illustrations shown are generic and are intended as examples only, and may not depict the exact model for which this owner's information is intended.
- Volvo reserves the right to make model and product changes at any time, or to change specifications or design without notice and without incurring obligation.

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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



- 1 Home button
- 2 "Navigation" menu line

On

If the navigation system does not show a map on the center display, tap the **Navigation** line (2).

If the center display does not show the map, press the Home button (1) and then tap **Navigation** (2).

This will display a map showing the area around the vehicle and the vehicle's current location (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

While the ignition is switched on, the navigation system is always active in the background. It switches off automatically when the ignition is switched off and the vehicle is locked.

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?
- Find the vehicle symbol on the map
- Direction at the top of the map/North at the top of the map
- 2D for 3D view
- Zoom
- Scroll
- 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.

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.

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



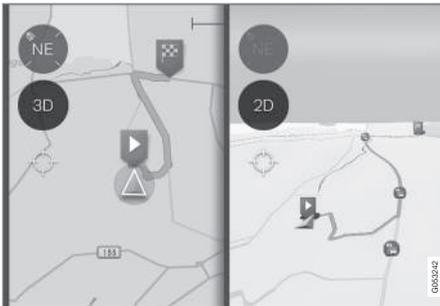
Tap the compass to change the way in which the vehicle symbol moves on the map

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.

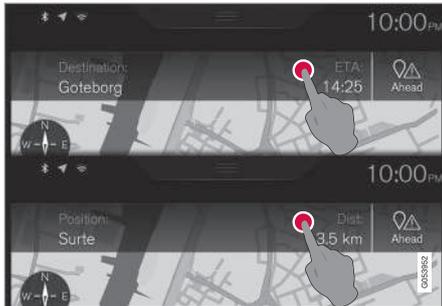
Scroll



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

Scrolling is only possible with the map in maximized view.

◀ 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

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



All settings in the navigation system, such as map views and setting a destination, are made on the center display.

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

Instrument panel

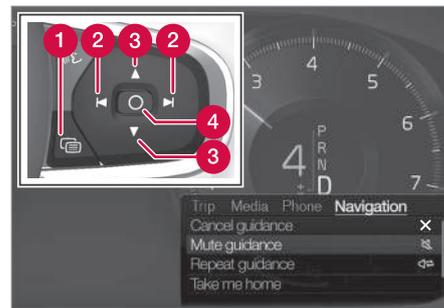


The map is only shown on the 12" instrument panel

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

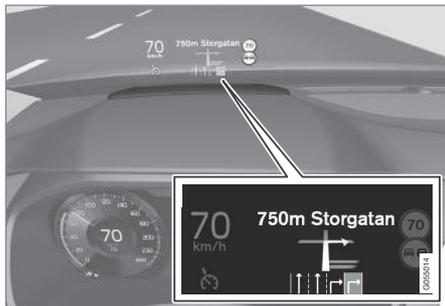
Right-side steering wheel keypad and instrument panel

Some of the navigation system's functions, such as **Take me home** and **Cancel guidance**, are controlled from the right-side steering wheel keypad. If a message is displayed in the instrument panel, it must be acknowledged before then menu can be displayed.



- 1 Open/close the menu. In certain cases, the menu will close automatically after a period of inactivity
- 2 Scroll among the menus
- 3 Scroll in a menu
- 4 Confirm or mark a selection

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.

Displaying navigation information can be turned off and the position of the HUD can be adjusted (see the article "Head-up display" for detailed information).

Voice control

Many settings can be controlled using voice commands.



Press the voice button on the right-side steering wheel key-pad, 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. 25)
- Navigation system voice commands (p. 21)
- Voice control (p. 20)
- Using voice commands (p. 20)
- Voice control settings (p. 22)

VOICE CONTROL

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.



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 support site support.volvocars.com.

Related information

- Using voice commands (p. 20)
- Voice control settings (p. 22)
- Navigation system voice commands (p. 21)

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.
- Avoid background noises in the cabin when using the system by closing the vehicle's doors, windows and moonroof* 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 and give your next command.

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 in different ways depending on the context and function being used:

- **Phone numbers and zip codes** should be spoken individually, number by number, e.g., five five five one two three four (5551234).
- **Addresses (house numbers)** can be spoken individually or as a group, e.g., two two or twenty-two (22). It is also possible to say a sequence of numbers, e.g., twenty-two twenty-two (22 22) and "double" or "triple" can also be used, e.g., double zero (00) or triple zero (000). Numbers in the range 0-2300 can be used.
- **Frequencies** can be spoken ninety-eight point eight (98.8), one hundred four point two (104.2) or hundred four point two (104.2).

Related information

- Voice control (p. 20)

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**.
- **"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 Intersection":** Starts a dialog where two street names are entered. The destination will then be the intersection of the two streets.

- **"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 John Smith."
- **"Search [POI category] in [City]":** The list of results will be sorted around the center of the selected city/town, e.g., Search restaurants in Butler.
- **Search [POI category]":** For example, Search Yankee Stadium.
- **"Change country/Change state":** Changes the country/state in which a search is conducted.
- **"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.

Related information

- Navigation displays and controls (p. 16)
- Voice control (p. 20)
- Using voice commands (p. 20)
- Voice control settings (p. 22)

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 the languages marked by the  symbol in the list of possible system languages.

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. 20)
- Using voice commands (p. 20)
- Navigation system voice commands (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. 34)
- Setting a destination by tapping the map (p. 24)
- Setting a destination by entering the text of your choice (p. 25)
- Setting a destination using Recent/Favorites/Library (p. 26)
- Using a point of interest (POI) as a destination (p. 28)
- Setting a destination by entering an address (p. 29)

Setting a destination by tapping the map

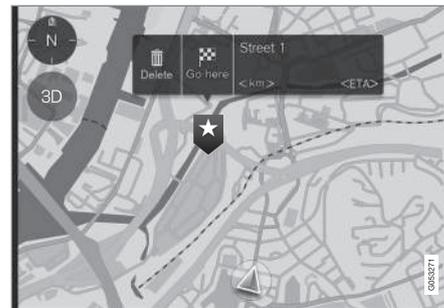
Tapping a point on the map is one way to set a destination.

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

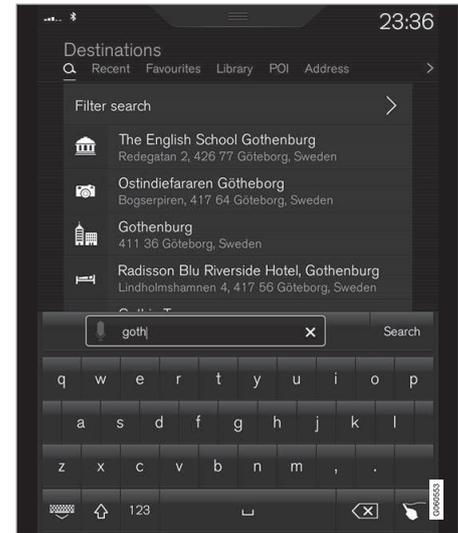
- Entering a destination (p. 24)

Setting a destination by entering the text of your choice

One way of setting a destination is by entering the text of your choice, e.g., a phone number, zip code, street name, city name, coordinates or a point of interest.



1. Tap **Set dest.** at the bottom of the screen.
 - > The map will change to a search by address screen.
2. Tap **Q**.



3. Enter the text of your choice.
 - > Possible destinations meeting your search criteria will begin to appear on the screen.

SETTING A DESTINATION

- ◀ 4. **If the search provided the desired result:** tap one of the destinations to display its information card and select to continue using it.

If the search provided too many results: tap **Filter search** and select one of the following search alternatives:

- **Around vehicle**
- **Around destination**
- **Along route**
- **Around point on 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)

Related information

- Entering a destination (p. 24)
- Navigation displays and controls (p. 16)
- Information cards on the map (p. 36)

Setting a destination using Recent/Favorites/Library

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

To display these lists:



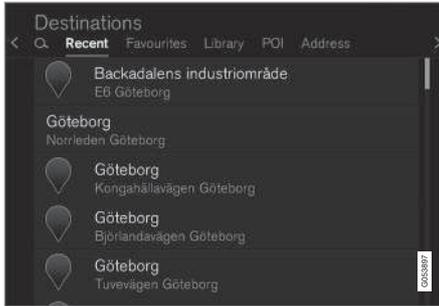
1. Tap **Set dest.** in the lower margin. A keyboard will be displayed with search alternatives in the upper margin.

2. 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



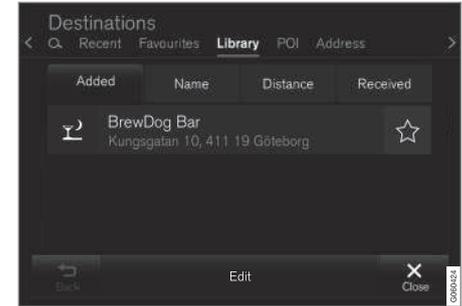
This is a list of locations that have been set as favorites from the **Library**. Scroll through the list and select.

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 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** 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:** sort in chronological order
- **Name:** sort in alphabetical order
- **Distance:** sort according to distance from the vehicle's current location
- **Received:** destinations sent to the vehicle using the Send to Car function will be sorted in chronological order. New unread destina-



SETTING A DESTINATION

- ◀◀ tions 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** to delete one or more destinations from the list.

Related information

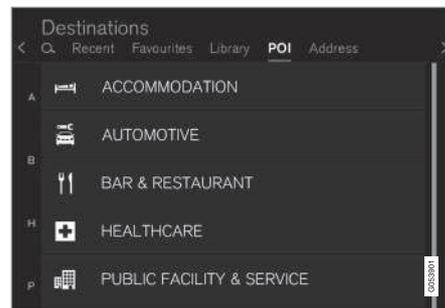
- Saving a destination with Send to Car (p. 30)
- Navigation displays and controls (p. 16)
- Entering a destination (p. 24)

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.** at the bottom of the screen. A keyboard will be displayed with search fields.
2. Tap **POI**.
3. Tap the desired filter:
 - **Near the vehicle**
 - **Near the destination**
 - **Near waypoint**
 - **Along route**
 - **Around point on map**
4. Scroll to the desired POI and select it.
5. Tap **Start navigation** or **Add as waypoint**.



Examples of POIs

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

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).

i 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 be found in the menu system.

Related information

- Entering a destination (p. 24)
- Map settings (p. 45)

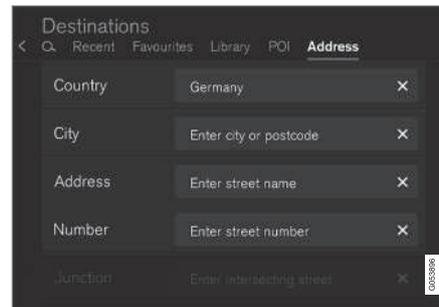
Setting a destination by entering an address

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.

It is not necessary to fill in all of the information. For example, for guidance to a city, fill in the

state/country (where applicable) and the city. You will be guided to the center of the city.

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. 24)

Saving a destination with Send to Car

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

Sending a location to the vehicle

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 service.

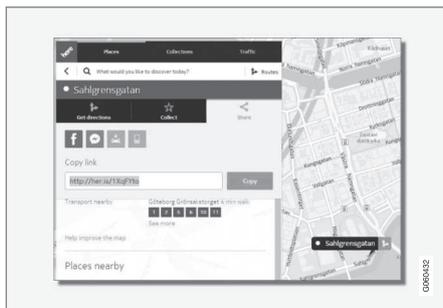
Volvo On Call can also be used to send a destination from the Volvo On Call customer service center to the vehicle.

Please note that the procedure shown here is an example from one of several map service providers.

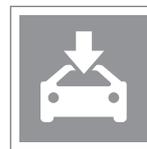
1. Go to the Internet site here.com.
> A map service will open.
2. Search for the desired location.



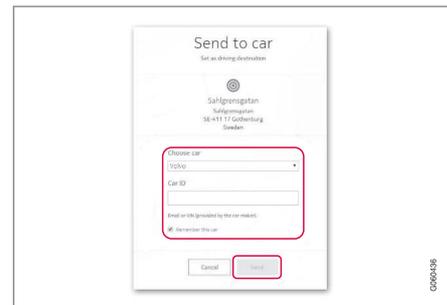
3. Right-click the location and click the address.
> A side menu/information card will open.



4. Tap **Share** in the side menu.



5. Tap **Send to car** in the side menu.
6. Enter the vehicle's VIN number or the email address registered with your Volvo ID. Tap **Send**.



7. Tap **Finish**.
> The location will be sent to the vehicle.

See the Volvo Cars support site (support.volvocars.com) for more information about the Send to Car function.

Receiving and using a location in the vehicle

In order to receive data, the vehicle must be connected to the Internet. See the section "Connecting to the Internet" in the owner's manual. If the location was sent via Volvo On Call, the vehicle's integrated modem will be used to receive that data, i.e., no other Internet connection is necessary.

1. When the vehicle has received the data, notification will appear on the center display. Tap the notification/symbol.
 - > An information card will open.
2. Select the desired use for the location.

Using a stored location

Locations that have been received are stored in the navigation system's library for later use. See also "Entering a destination using Recent/Favorites/Library" for additional information.

Related information

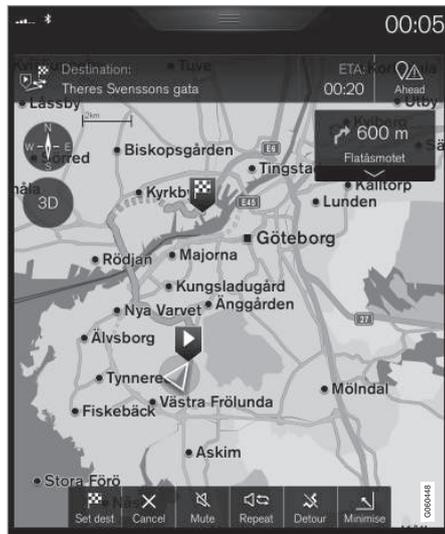
- Setting a destination using Recent/Favorites/Library (p. 26)
- Entering a destination (p. 24)

ITINERARY 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 an itinerary



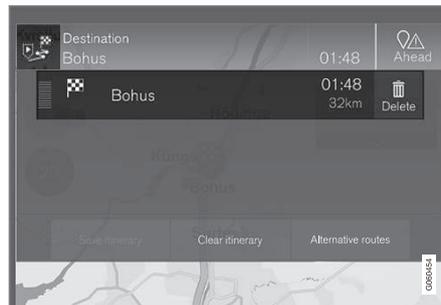
1. During guidance, tap **Maximize** to maximize the map and access the itinerary.

2.



Tap the symbol to open the itinerary.

Editing or clearing an itinerary



1. Display the itinerary.
2. Tap the recycling bin to delete a waypoint in an itinerary or tap **Clear itinerary** to delete the entire itinerary.

Showing alternative routes

During guidance, it is possible to search for alternative routes.

1. Display the itinerary.
2. Tap **Alternative routes**.



3. Select an alternative route:

- Eco
- Fast
- Scenic

4. Tap the map.

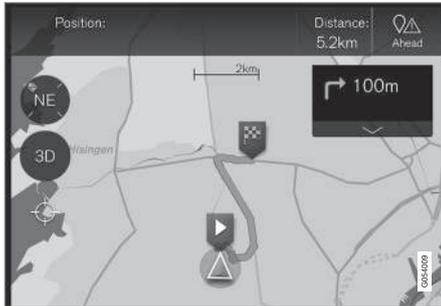
> The updated route will be shown on the map and guidance will resume.

Related information

- Guidance points in the itinerary (p. 35)
- Choosing a detour (p. 37)
- Information cards on the map (p. 36)
- Route settings (p. 48)

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.



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.

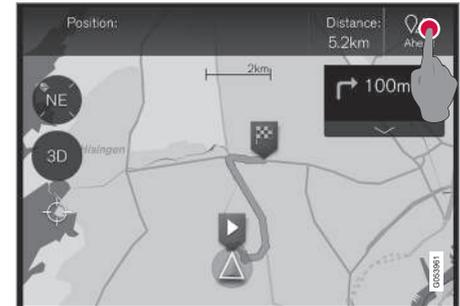
Tapping any of the guidance points in the list will scroll the map to the related position. Subsequently tapping the map's crosshairs (below the 2D/3D button) will return you to the map guidance view where the map shows the vehicle's current location.

Related information

- Choosing a detour (p. 37)
- Viewing the itinerary and alternate routes (p. 34)
- Information cards on the map (p. 36)
- Route settings (p. 48)

POIs along the route

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



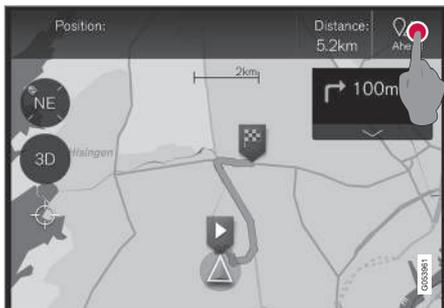
1. Tap **Ahead**.
2. Tap **POI**.
 - > POIs along the route will be displayed based on their distance from the vehicle.
3. If there are several POIs in the same location, they will be displayed as a group. Tap the group for a list of the POIs.
4. Select a POI.
5. Select one of its information card's alternatives and follow the instructions.

Related information

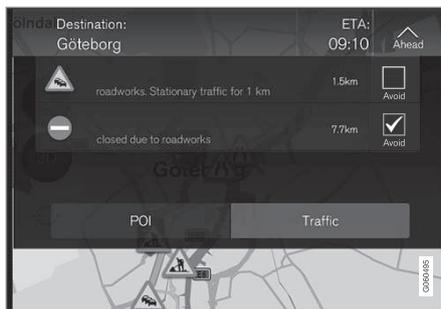
- Using a point of interest (POI) as a destination (p. 28)

Traffic problems along the route

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



1. Tap **Ahead**.



2. Tap **Traffic**. The traffic button will be gray if there are no traffic problems along the route.
 - > If there are traffic problems along the route, they will be displayed based on their distance from the vehicle.
3. For additional information about a traffic problem, tap it to open its information card. Select one of the card's alternatives and follow the instructions.
4. Tap **Avoid** to avoid the traffic problem.
 - > The route will be recalculated and guidance will resume.

Related information

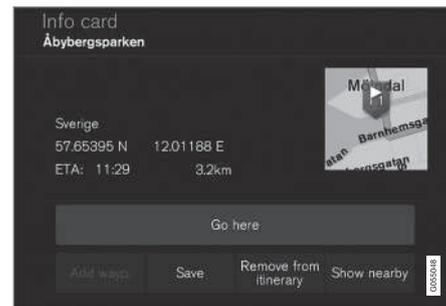
- Traffic information (p. 40)
- Traffic information settings (p. 49)

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. 34)
- Guidance points in the itinerary (p. 35)
- Choosing a detour (p. 37)
- Route settings (p. 48)
- Setting a destination using Recent/Favorites/Library (p. 26)

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 or begin driving on the proposed route.

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. 48)
- Viewing the itinerary and alternate routes (p. 34)
- Information cards on the map (p. 36)

TRAFFIC INFORMATION

Traffic information¹

The navigation system constantly receives traffic messages that are broadcast by local radio stations.

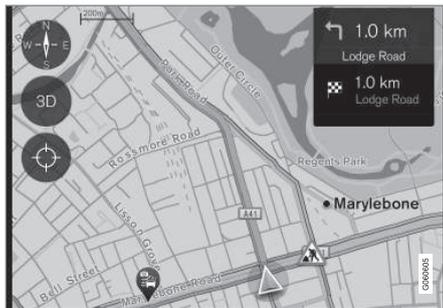
See the article "Traffic settings" for the traffic-related settings available to the driver.

NOTE

Traffic information is not available in all areas/states/provinces.

The transmission range for traffic information is being increased continuously.

Directly on the map



Example of traffic information

Traffic jams, road construction areas, accidents, etc. are shown on the map in the form of various symbols.

In cases of major traffic disruptions, their extent is shown on the map as RED lines along the side of the road (in e.g., road construction areas). This line will also indicate the direction (there will be lines on both sides of the road if both sides are affected).

- Tap the symbol for additional information about the traffic problem.

If the traffic problem affects your chosen route, you can opt to select **Avoid** to prompt the system to find an alternate route.

Related information

- Traffic information settings (p. 49)
- Traffic problems along the route (p. 36)

Enhanced traffic information (RTTI)

When the vehicle is connected to the Internet, enhanced traffic information (RTTI²) may be available³.



Generic illustration

Information about current traffic situations is gathered continuously from mobile apps, public

¹ Not available in all markets.

² Real Time Traffic Information

³ Certain markets only.

service sources and GPS data from the vehicle. When a vehicle requests information about the flow of traffic, anonymous data about the traffic situation in the vicinity of the vehicle is provided, which helps enable RTTI to function. This data is only transmitted if RTTI is activated.

Current traffic information is shown for highways/freeways, major roads, secondary roads and in some cases for urban routes.

The amount of traffic information shown on the map depends on the distance from the vehicle, but not farther than approx. 75 miles (120 km) from the vehicle's current location.

Text and symbols on the map are displayed in the usual way and the traffic flow shows how fast traffic is moving on a given road compared to the posted speed limit. Traffic information is shown in both directions on a road with a colored line in each direction:

- Green: traffic flowing smoothly
- Yellow: shows the road section actually affected by a traffic problem but does not indicate the type of problem (accident, road work, etc.)
- Orange: slow-moving traffic
- Red: traffic tie-up/accident
- Black: road closed

NOTE

Traffic information is not available in all areas/states/provinces.

The transmission range for traffic information is being increased continuously.

Activating/deactivating

The vehicle must be connected to the Internet in order to use RTTI.

1. Tap **Settings** in the center display's Top view.
2. Tap **Navigation** → **Traffic** and select a setting for connected traffic information: **Use RTTI when an internet connection is available/Use online traffic information.**
 - Check the box: RTTI is activated and replaces the normal traffic information function.
 - Deselect the box: RTTI will be deactivated and the normal traffic information function will be activated.

If the vehicle's Internet connection is lost while RTTI is activated, the normal traffic information will activate automatically. If the Internet connection is re-established, RTTI will reactivate.

Related information

- Traffic information (p. 40)

SETTINGS

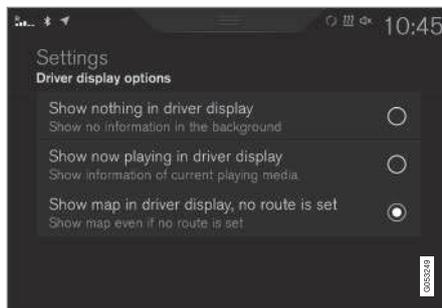
Navigation in the instrument panel

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



Instrument panel (driver display)¹

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

- Mark the alternative **Show Navigation** even if no route has been set.

Related information

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

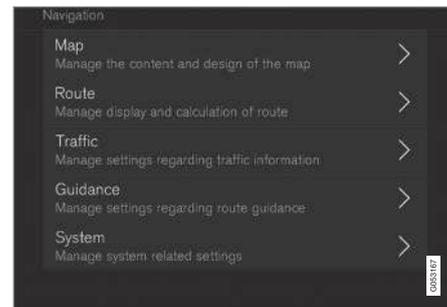
Sensus Navigation settings

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**.



The following types of settings are available:

¹ The map is only shown in the 12" instrument panel.

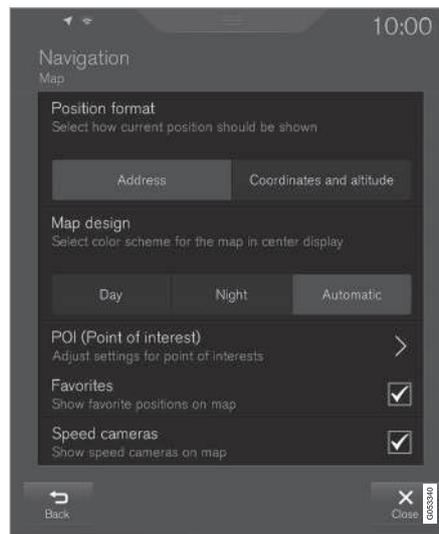
- **Map:** settings for the content and appearance of the map
- **Route:** settings for the way in which routes are calculated and displayed
- **Traffic:** settings for traffic information
- **Guidance:** settings for guidance
- **System:** information about map and software updates

Related information

- Map settings (p. 45)
- Navigation in the instrument panel (p. 44)
- Route settings (p. 48)
- 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.



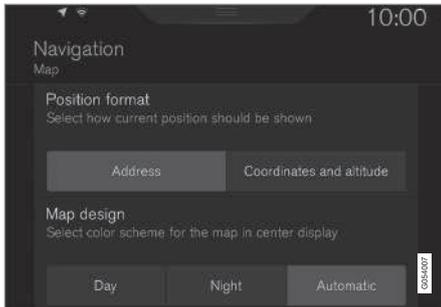
Settings → Navigation → Map

Alternatives:

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

² Not available in all markets.

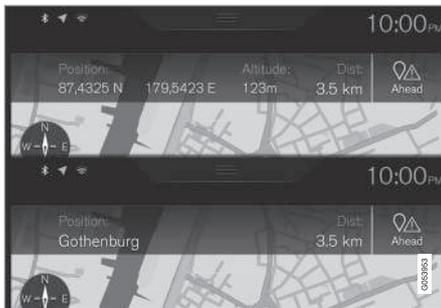
◀ Location format



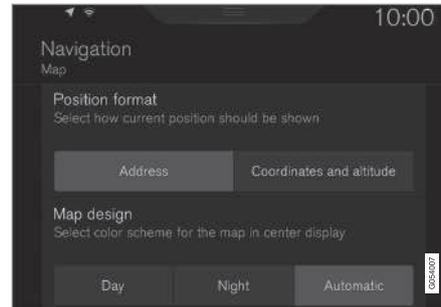
Select to display the current location by address or by coordinates:

- **Address**
- **Coordinates and Altitude**

The following illustration shows both alternatives:



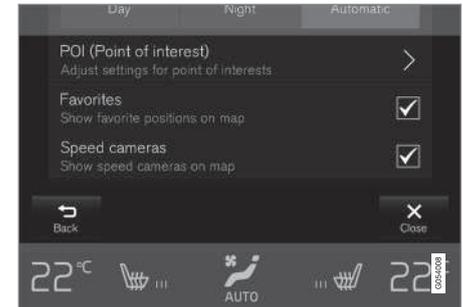
Map design



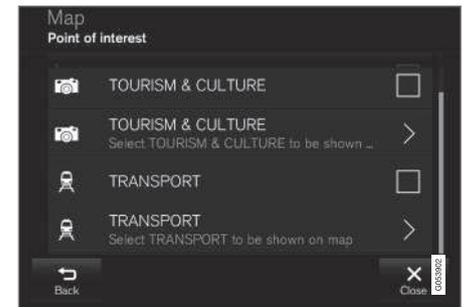
Select map background lighting:

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

POI

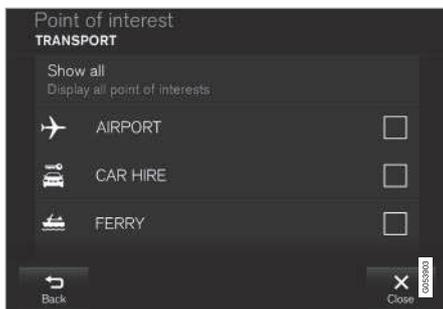


Select the POIs to be displayed on the maps. Each main category has two alternatives: every POI category will be displayed or...



POI main categories

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

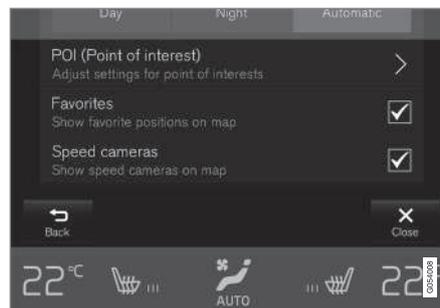


POI sub-categories

- 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

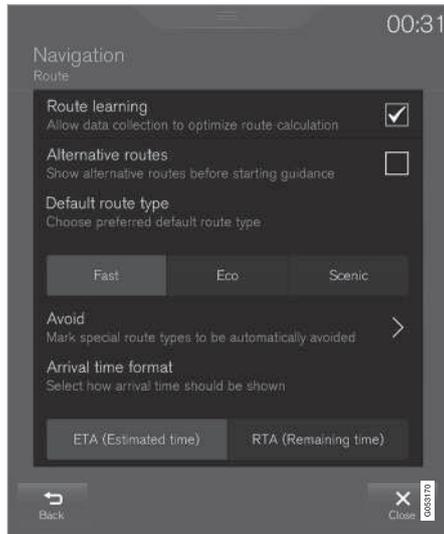
Related information

- Sensus Navigation settings (p. 44)
- Setting a destination using Recent/Favorites/Library (p. 26)
- Using a point of interest (POI) as a destination (p. 28)

² Not available in all markets.

Route settings

The following settings determine how a route will be calculated.



Path:

Settings → Navigation → Route

Possible settings:

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

Route learning

Allow data to be collected to optimize route calculations:

- Yes/No

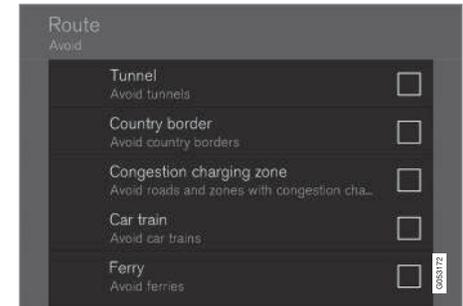
Default route type

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)

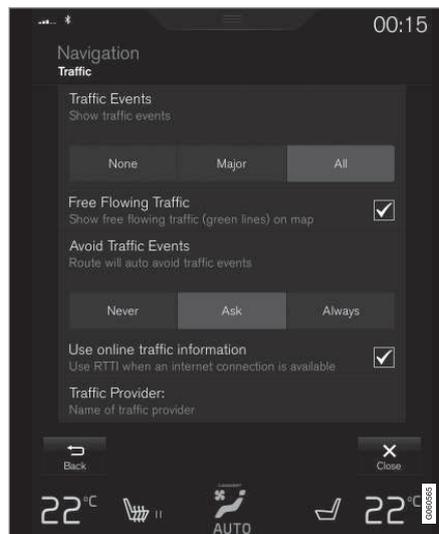
³ Not available in all markets.

Related information

- Sensus Navigation settings (p. 44)
- Viewing the itinerary and alternate routes (p. 34)

Traffic information settings⁴

These options determine how traffic information is presented.



Path:

Settings → Navigation → Traffic

- Traffic Events
- Free Flowing Traffic
- Avoid Traffic Events
- Use RTTI when an internet connection is available
- 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

⁴ Not available in all markets.

◀ 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 the selected setting into account. If the driver has selected **Ask**, any proposed route changes during the trip will have to be confirmed.

Real Time Traffic Information (RTTI)⁴

When the vehicle is connected to the Internet, RTTI can be used to receive traffic information. Select:

- Yes/No

Traffic provider:

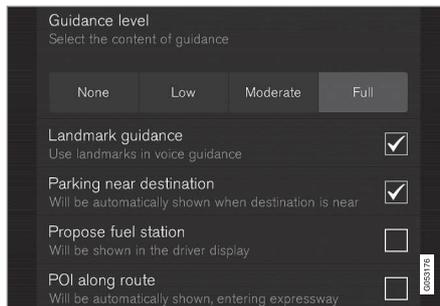
Set the source of traffic information⁴

Related information

- Sensus Navigation settings (p. 44)
- Traffic problems along the route (p. 36)
- Traffic information (p. 40)

Guidance settings

This section lists guidance settings.



Path:

Settings → Navigation → Guidance

Selections:

- **Voice Guidance**
- **POI Along Route**

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.

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."

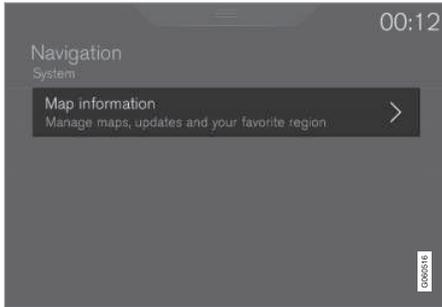
Related information

- Sensus Navigation settings (p. 44)
- POIs along the route (p. 35)

⁴ Not available in all markets.

System settings

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



Path:

Settings → Navigation → System

Map version

- **Map Information:** a shortcut to information about updates and regions.

Related information

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

MAP AND SYSTEM INFORMATION

Map updates with MapCare

MapCare is a map update service for Volvos equipped with Volvo Sensus Navigation. Map information can be updated via the Internet.

General update information

Updates can be done directly to the vehicle through a cell phone Internet connection or from a computer with a USB flash drive.

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 infor-

mation, go to support.volvocars.com or 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 "Map updates with an Internet connection" and "Map updates from the computer with a USB flash drive."

FAQs

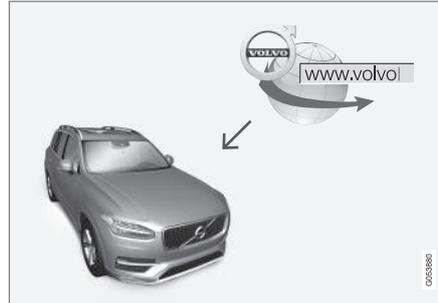
Question	Answer
Can the map data-base be changed, e.g., from Europe to North America?	Yes, with certain exceptions. Contact a Volvo retailer for up-to-date information.
How long do map updates take?	This depends on the size of the file(s) and the speed of the Internet connection. Information about the size of the update (in Mb) will be displayed.
How big is an update?	This varies from market to market. Go to support.volvocars.com or 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

- Map updates with an Internet connection (p. 55)
- Map updates from a computer with a USB flash drive (p. 56)
- Sensus Navigation troubleshooting (p. 66)
- Copyright (p. 64)
- Navigation license agreements (p. 58)
- System settings (p. 51)

Map updates with an Internet connection

If the vehicle is connected to the Internet, this connection can be used to update the navigation system's maps.



Remote update procedure

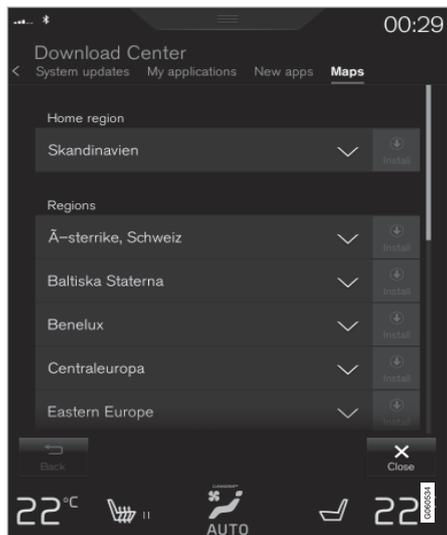
Internet connection

The vehicle has to be connected to the Internet.

See also the articles "Internet connected vehicle" and "Connecting to the Internet" in your owner's manual.



1. Tap **Download Center** in the center display's App view.
 - > The app will start and a number near **Maps** will indicate the number of available updates. This number will be visible until a new search for updates has been performed or until the updates have been installed.
2. Tap **Maps**.



3. Tap **Install** followed by **Confirm**.
 - > Installation of the map/update will begin.

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

Automatic map updates

Automatic updates can only be selected if **Auto Software Update** is activated. See the article "System updates" for detailed information.

1. Automatic map updates can only be selected for your home region. If the home region is not already selected, tap the DOWN arrow to expand the region.
 - > Detailed map information will be displayed.
2. Tap **Set as home region**.
3. Tick the **Auto update:** box.
 - > When the vehicle is connected to the Internet and map updates are available, they will be downloaded automatically.

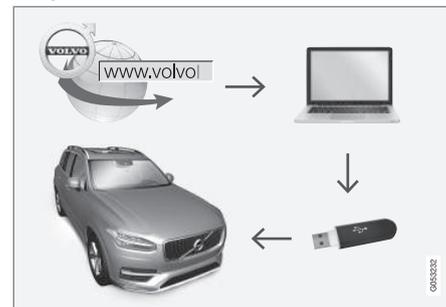
Related information

- Map updates with MapCare (p. 54)

Map updates from a computer with a USB flash drive

This article describes the procedure for downloading map information from the Internet to a USB flash drive and then transferring the downloaded information from the flash drive to the vehicle.

Preparations



Computer/USB update procedure

USB flash drive

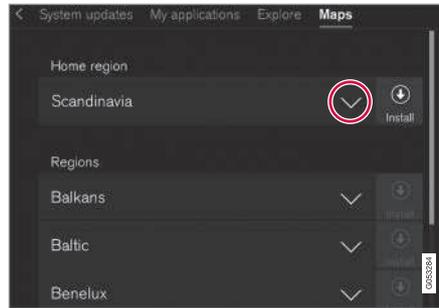
For use in updates, a USB flash drive has to meet the following requirements:

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).

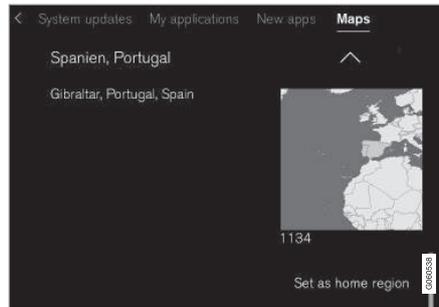
Determining the current map version



1. Tap **Download Center** in the center display's App view.



2. Tap the down arrow to expand the region.
 - > Detailed map information will be displayed.



3. Make note of the map information.

Downloading maps from the Internet to a USB flash drive

A USB flash drive and the note of the map information are required.

1. From a computer connected to the Internet, go to Volvo Cars support site at: support.volvocars.com.
2. Select the maps, vehicle model and model year.
3. Tap the region to be updated.
 - > A map with the most recent information for the region will be displayed.
4. Verify that this information is newer than the version in the vehicle.
5. Connect a USB flash drive to the computer and download the update.

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

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

If the engine is not running, it may be necessary to connect a battery charger to avoid discharging



- ◀◀ the start battery. An update can also be done while driving.

During a complete map database 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 infotainment or navigation system.
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 entire map database update's progress will be displayed on the screen as %.
 > When individual regions are updated, the update will start immediately.
 To start an update of the entire map database, tap **Confirm** or **Cancel** to stop the installation.
4. Tap **Confirm**. The update of the entire database 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 "Determining the current map version."

Interruptions

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

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.

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

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Related information

- Map updates with MapCare (p. 54)
- Copyright (p. 64)

Copyright

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

Related information

- Map updates with MapCare (p. 54)
- Navigation license agreements (p. 58)

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 straight-aways 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.

Is the most recent map version installed?

Map information is continuously being updated. To check if the currently installed version is up-to-date or if updates are available:

- Check while the vehicle is connected to the Internet. See that article "Map updates with an Internet connection".
- Check the map version in the vehicle and compare it to the map version available on Volvo Cars' support site. See the article "Map updates from a computer with a USB flash drive".

1. From the center display's Home view, swipe from right to left to display App view.
2. Select the **Download Center** 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)

- Map updates from a computer with a USB flash drive (p. 56)
- Map updates with an Internet connection (p. 55)

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