

SENSUS NAVIGATION

## **SENSUS NAVIGATION**



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

The system includes features that enable you to

By enabling you to reach your destination guickly and by the most direct route, Volvo's navigation system also helps contribute to improving the environment



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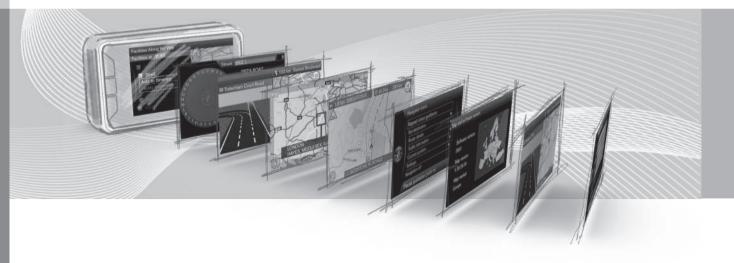
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## INTRODUCTION



#### Introduction

This supplement complements your vehicle's owner's information.

If you are uncertain as to any of your vehicle's features or functions, consult your printed owner'smanual or the on-board owner's information. If you have any further questions, please contact a Volvo retailer or other representative of the Volvo Car Corporation.

All information, illustrations and specifications contained in this owner's information are based on the latest product information available at the time of publication. Volvo reserves the right to make model changes at any time, or to change specifications or design without notice and without incurring obligation.

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## **Options and accessories**

Optional or accessory equipment described in this manual is indicated by an asterisk.

Optional or accessory equipment may not be available in all countries or markets. Please note that some vehicles may be equipped differently, depending on special legal requirements.

Contact your Volvo retailer for additional information.

## $\hat{\mathbf{i}}$

## 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 special legal requirements. Optional equipment described in this manual may not be available in all markets.
- Some of the illustrations shown are generic and may not depict the exact model for which this manual is intended.
- Volvo reserves the right to make model changes at any time, or to change specifications or design without notice and without incurring obligation.

#### The owner's manual in mobile devices





## NOTE

The owner's manual mobile app can be downloaded at www.volvocars.com.

The mobile app also contains videos and searchable content, and provides easy navigation between the various articles.

## 01 Introduction

01

## **Sensus Navigation**

This section provides a description and overview of the Sensus Navigation system.

The system calculates routes, travel time and distance to the selected destination and provides instructions to help guide you there.

If you do not follow the planned route during your trip, the system will automatically calculate a new one. The system can also be used even if a destination has not been selected.

The system is delivered with default settings but will start with the most recently used ones.

Volvo Sensus Navigation uses the WGS84 reference system, which provides your location including longitude and latitude.

#### Keep in mind

This system provides road and map information that helps you to reach your destination. Road conditions may make certain recommendations less reliable. Always adhere to road and traffic regulations and use good judgement while driving. Always focus all of your attention on the road and your concentration primarily on driving.

## **WARNING**

- Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.
- Never use the navigation system or any other feature in your vehicle in a way that distracts you from the task of driving safely. Distraction can lead to a serious accident.
- Set and make changes in your navigation system only with the vehicle parked.
- Be aware of the current traffic situation.
- Always comply with relevant traffic regulations.
- Due to weather conditions or time of year affecting the road conditions, some recommendations may be less reliable.

## System overview



- Steering wheel keypad for navigating in menus and adjusting volume and voice guidance.
- The screen displays maps and provides detailed information about routes, distances, etc.
- The keys in the center console can be used to navigate in menus, confirm selections, adjust volume, etc.
- USB connection.
- 6 Microphone for giving voice commands.



## (i) NOTE

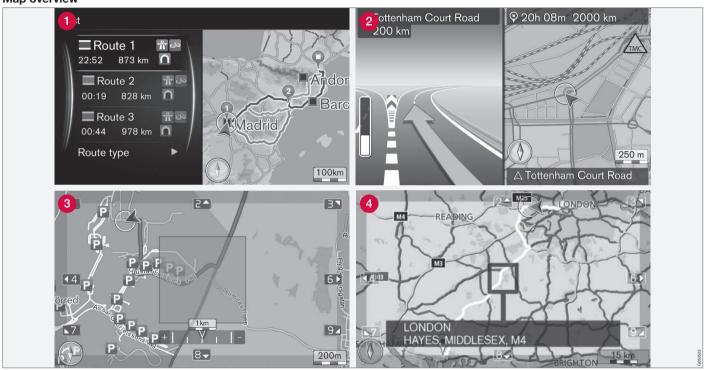
Throughout the navigation system information, the text "press the thumb wheel/OK/ MENU" refers to the thumb wheel on the steering wheel keypad and the control on the center console respectively.

Audio from the navigation system comes from the infotainment system's front speakers.

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## Map overview



Generic examples of map views

The type of information shown on the screen is determined by geographic location, the

system settings that have been applied, the points of interest chosen for display, etc.

For an explanation of text, signs and symbols used, see the inside of this manual's front cover.



- 1 When a route is calculated, three alternatives are presented, see (p. 25).
- Detailed intersection information: the left side of the screen shows an enlarged view of the next intersection/turn. Voice instructions are also provided, see (p. 25).
- 3 An area selected to be avoided, see (p. 25).
- 4 Scroll mode, seek (p. 10).

### **Related information**

- Sensus navigation (p. 10)
- Navigation voice control (p. 13)

## **Sensus navigation**

This article provides basic information and examples about operating the Sensus Navigation system.

The navigation system can be operated from the center console, the steering wheel keypad and in certain cases by using voice control.

### **Activating Sensus Navigation**

- Press the NAV button on the center console.
  - > After a short wait, a map of the current area will appear on the screen. The location of your vehicle will be indicated by a blue triangle.

## $\Lambda$

## WARNING

- Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.
- Never use the navigation system or any other feature in your vehicle in a way that distracts you from the task of driving safely. Distraction can lead to a serious accident.
- Set and make changes in your navigation system only with the vehicle parked.
- Be aware of the current traffic situation.
- Always comply with relevant traffic regulations.
- Due to weather conditions or time of year affecting the road conditions, some recommendations may be less reliable.

The navigation system cannot be turned off and remains active in the background. However, it switches off automatically when the ignition is switched off.



### NOTE

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

#### Menus

The navigation system's menus consist of shortcuts, main menus and scroll menus. See the infotainment information in the vehicle's owner's manual for additional information.

In Scroll mode, the cursor is moved across the map using number keys on the center console.



Scroll mode and cursor1.

Activating/deactivating Scroll mode

- Activate: press one of the center console's number keys 0-9.
- Deactivate: press EXIT or NAV.

<sup>1</sup> The cursor can be set to show a name or GPS coordinates, see (p. 27).

## Scrolling

 Press one of the center console's number keys 1-2-3-4-6-7-8-9: an arrow showing the direction will appear in the margin combined with the number to be used to scroll in the desired direction.

### Zooming

Turn TUNE on the center console.

### Centering the map



Pressing key **5** in Scroll mode will center the map around the vehicle's current location.

If an itinerary with intermediate destinations is activated, the map will be centered on one of the intermediate destinations each time the key is pressed.

#### Scroll menu



- While in Scroll mode, press the thumb wheel/OK/MENU.
  - > A menu will open for the point on the map that the cursor is pointing to.
- 2. Select a function:
  - Set single destination: any previous destinations in the itinerary will be erased and guidance will start on the map.
  - Add as waypoint: the marked location will be added to the itinerary.
  - POI information: the name and address of a point of interest closest to the cursor will be displayed. For additional information, see (p. 16).
  - Traffic information on map: makes it possible to see any available traffic information for the marked location<sup>2</sup>.
  - Information: displays any available information about the marked location.
  - Save: stores the marked location in the system's memory.

### Example

Guidance to a point of interest (POI)

- 1. If the map is not displayed on the center console screen, press **NAV**.
  - > The map will be displayed.

- 2. Press NAV.
  - > The Shortcut menu will open.
- Mark Set point of interest and confirm by pressing the thumb wheel/OK/ MENU.
- Mark e.g., Near the car and confirm by pressing the thumb wheel/OK/MENU.
  - > A list of search results will be displayed.
- Mark e.g., Nearest tourist attraction and confirm by pressing the thumb wheel/OK/MENU.
  - > A list of search results will be displayed.
- Mark your choice in the list and confirm by pressing the thumb wheel/OK/ MENU.
  - > A pop-up menu will be displayed.
- Mark Set single destination and confirm by pressing the thumb wheel/OK/ MENU.
  - > Guidance will begin and instructions/ directions will be provided.

See also the example in the Voice control(p. 13) article.

<sup>2</sup> Not available in all areas.

## Navigation - text wheel and keypad

Use the text wheel or the center console keypad to enter text or to display information about e.g., an address or point of interest.



Generic screen view showing the free-text field at the top

### Activating a choice

When the desired function/menu selection has been chosen by turning the **thumb wheel** on the steering wheel keypad or **TUNE** on the center console, press the **thumb wheel/OK/MENU** to display the function/menu's next level.

### Using the text wheel



Text wheel (generic view)

- 1. Mark a text field.
- 2. Press **thumb wheel/OK/MENU** to display the text wheel.
- Select a character with the thumb wheel/ TUNE and enter it by pressing the thumb wheel/OK/MENU.

# Entering text using the center console keypad



Keypad (generic illustration)

The center console number keys **0–9**, \* and # can also be used to enter characters.

**9 WXYZ** For example, press **9**<sup>3</sup> to display all of the characters that can be entered by pressing this key, which can be for example: w, x, y, z and 9. Press the button briefly to move the cursor to each available character.

- Stop on the desired character to select it and it will appear in the text field.
- Delete or cancel with EXIT.

### Other characters

The inset menu in the text wheel shows other special characters or numbers. Note that

<sup>3</sup> The characters for each respective key may vary, depending on the language selected and the market

grayed-out characters cannot be selected in the current context:

- 123/ABC + thumb wheel/OK/MENU: toggle between numbers and letters/other characters.
- MORE + thumb wheel/OK/MENU: press to display special characters on the text wheel.
- => + thumb wheel/OK/MENU: the cursor moves to the list at the right of the screen. Selections can be made here by pressing OK/MENU.
- Zip code + thumb wheel/OK/MENU: the cursor moves to the list at the right of the screen. Selections can be made here by pressing OK/MENU, see Setting a destination (p. 16).

#### List of alternatives



A list matching the characters entered (generic illustration)

When searches are performed, alternatives matching the characters entered will be displayed.

The number "149"in the upper right corner of the screen indicates that the there are 149 alternatives containing the characters entered "LON".

#### No list

An empty list and the characters \*\*\* in the upper right corner indicates that there are over 1,000 alternatives containing the characters entered. If there are fewer alternatives, they will automatically be displayed.

To reduce the number of alternatives on the list, enter additional characters.

#### Related information

• Sensus navigation (p. 10)

## Navigation – voice control

This article provides examples of voice commands that can be used with the navigation system.

See your owner's manual for more detailed information about voice control.

The following dialogs are examples and the system's responses may vary depending on the situation.

### Starting guidance

The following voice control dialog starts guidance according to the currently set itinerary.

- Say "Start route guidance."
  - > The system will respond with: "Start guidance."

## Canceling guidance

The following voice control dialog cancels guidance.

- 1. Say "Cancel route guidance".
  - > The system will respond with: "Do you want to cancel guidance and clear itinerary?."
- 2. Say "Yes."
  - > The system will respond with: "Cancel guidance."

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# Using a point of interest (POI) as a destination

The following voice control dialog starts guidance to the nearest gas station but can also be used for points of interest such as hotels or restaurants.

- 1. Say "Nearest gas station."
  - > The system will respond by asking you to say a line number.
- 2. Say a line number of the desired gas station (e.g., line 5) "5".
  - > The system will respond by confirming line 5 and asking if you want to use this as a waypoint or a final destination.
- 3. Say "Yes".
  - > The system will respond by asking if you would like to start guidance.
- 4. Say "Yes."
  - > A route will be calculated and guidance will begin.

#### **Additional commands**

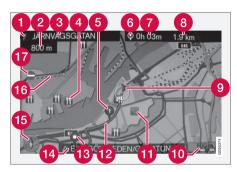
Additional navigation system voice commands can be found in the normal view for MY CAR by pressing OK/MENU and selecting Settings 
Voice control settings 
Command list 
Navigation commands.

#### **Related information**

Sensus navigation (p. 10)

# Navigation – text and symbols on the screens

Explanatory texts and symbols are displayed on the screen.



## Types of roads

- Freeways (orange)
- Main roads (dark gray)
- Secondary main roads (gray)
- Normal roads (light gray)
- Local roads(white)

## Text and symbols on the screen

- 1 Action to take at the next guidance point
- ② Distance to the next guidance point
- Name of the next street or road
- 4 Facility/point of interest (POI)

- 6 Intermediate destination in an itinerary
- 6 Symbol for destination/final destination
- Calculated remaining time to destination
- 8 Calculated remaining distance to destination
- The vehicle's current location
- Map scale
- Stored location
- Route
- Final destination
- Name of the current road/street at the vehicle's current location (9)
- (E) Compass
- 6 Section of the route affected by traffic information
- Traffic information

#### Related information

- Sensus Navigation (p. 6)
- Sensus navigation (p. 10)



## SETTING A DESTINATION, ITINERARY AND ROUTE





## 02 Setting a destination, itinerary and route

## Navigation: setting a destination

This article explains how to set a destination in the navigation system.

Each time a destination is set, it can be saved as a **Stored location** or **Home**. The navigation system provides guidance to the destination and up to four intermediate destinations can be added to an itinerary. In many cases, the system can also provide additional **Information** about destinations.

If the vehicle is connected to the Internet, map destinations can be sent to the navigation system from a web browser using the "Send to Car" app or by using the Volvo On Call mobile app. See also the vehicle's owner's information and the support site at support.volvocars.com.

To set a destination, in the navigation system's normal view, press the **thumb** wheel/OK/MENU and select Set destination.



## Setting a destination using Home

A home location must have been stored before it can be used.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination >> Home.
  - > Guidance will begin.

**Setting a destination using an address** It is enough to enter the name of a city, area, town, etc. in order to be guided to its center.



#### NOTE

The definition of a city or area may vary from state to state, and also within the same state. It will sometimes be an entire city, or a particular section of a city.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination 
  Address.
- 2. Fill in one or more of the following:
  - Country:
  - · City:
  - Street:
  - Number:
  - Intersection
- For additional information about the destination, select Information followed by the type of information desired:
  - Map: displays a map of the location with additional information when available.
  - Call number<sup>1</sup>: A call will be initiated if a phone number has been provided.
  - Online info.<sup>1</sup>: Additional information can be downloaded from the Internet<sup>2</sup>.
- To store an address in the system's memory, select Save followed by Stored location or Home.

<sup>&</sup>lt;sup>1</sup> Requires a paired and connected cell phone, see the owner's information.

<sup>&</sup>lt;sup>2</sup> Requires an Internet connection.



- 5. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination

# Setting a destination using a point of interest (POI)

A point of interest is a general name for tourist attractions or facilities such as hotels, gas stations, etc.

The map database contains a large number of searchable POIs that can be selected as destinations<sup>3</sup>.

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Point of interest (POI).

- 2. Search for a POI in the following ways:
  - By name: displays the text wheel to search for the name of a POI, e.g., "Peppe's". The entire map area will be included in the search. See also Map and system information(p. 38).
  - By category: limits the POI search to specific categories (e.g., bank/hotel/ museum).
  - Near the car: searches for POIs near the vehicle's current location.
  - Along the route: searches for POIs along the current itinerary.
  - Near the destination: searches for POIs near the destination.
  - Around point on map: searches for POIs by scrolling with the cursor.

For additional information about the destination, select **Information** followed by the type of information desired.

 To store the address in the system's memory, select Save followed by Stored location or Home.

- 4. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using a stored location

This function is a collection of destinations that have been stored using the menu alternative Save → Stored location.

Please note that one or more destinations has to have been previously stored.

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Stored location.

<sup>&</sup>lt;sup>3</sup> To select a POI on the map, see Points of interest (POIs) on the map (p. 27)

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- 2. Open the stored destination:
  - Routes: e.g., recorded sections of the route.
  - Other: e.g., stored locations.

For additional information about the destination, select **Information** followed by the type of information desired.

It is also possible to delete or edit a stored destination by selecting Edit, Delete or Delete all.

- 3. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using a previous destination

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Previous destination. 2. Select a destination from the list.

For additional information about the destination, select **Information** followed by the type of information desired.

A destination can also be deleted by selecting **Delete** or **Delete all**.

- 3. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using an Internet search

An Internet connection is required, see the owner's information.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Internet search.
- 2. Follow the instructions on the screen.

### Setting a destination using a zip code

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Zip code. 2. Enter the zip code and the country if necessary.

For additional information about the destination, select **Information** followed by the type of information desired.

- To store an address in the system's memory, select Save followed by Stored location or Home.
- 4. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using latitude and longitude





- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Latitude and longitude.
- Begin by deciding which type of GPS coordinates are to be used by selecting Format:
  - DD°MM'SS": location in degrees, minutes and seconds.
  - Decimal: location expressed in decimals.
- 3. Enter the GPS coordinates.

For additional information about the destination, select **Information** followed by the type of information desired.

- To store an address in the system's memory, select Save followed by Stored location or Home.
- 5. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using a position on the map



The cursor's position given in GPS coordinates.

To display the name, select Settings → Map options → Position information.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Select point on map.
- 2. Move the cursor to the desired position, see also Menus(p. 10) .
- To store the position in the system's memory, press the thumb wheel/OK/ MENU and select Save followed by Stored location or Home.
  - > the destination will be stored as a symbol/icon on the map if the function Stored location on map is selected, see also Map alternatives (p. 27).

- 4. Set the address as an intermediate destination or a single destination:
  - Add as waypoint: adds the address as an intermediate destination (waypoint) to the itinerary.
  - Set single destination: deletes any previous destinations in an itinerary and starts guidance to the selected destination.

# Setting a destination using the travel guide

Searching using travel guide (not available in all areas) offers suggested destinations/routes according to various themes such as restaurants, scenic drives, sight-seeing, etc.

A travel guide is stored on a USB flash drive that has to be plugged into the vehicle's USB socket in the tunnel console storage compartment.

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Set destination → Travel guide.

If this menu alternative is not displayed, this is because there are no suggestions for your current location or no USB flash drive is connected.



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- 2. Select the travel guide using one of the following categories:
  - Restaurants
  - Tourist attractions
  - Hotels
  - Tourist routes
  - Other
- 3. If available in the travel guide, to display details, images, or play audio:
  - Details
  - Photos
  - Play audio
- 4. Select Start guidance.

#### Related information

- Navigation text wheel and keypad (p. 12)
- Sensus navigation (p. 10)
- Navigation itineraries (p. 21)

# Navigation – points of interest (POI) symbols

This article provides examples of the svarious symbols for points of interest that may be displayed on the map.

To choose the POIs to be displayed on the map, see the article Map alternatives(p. 27).



## NOTE

POI symbols may be added/removed when the system is updated. The symbols available for the current map information can always be found under Settings → Map options → POI symbols → Selected.

POI symbols, grouped according to functions:



Car dealer/repair



Gas station



Car repair



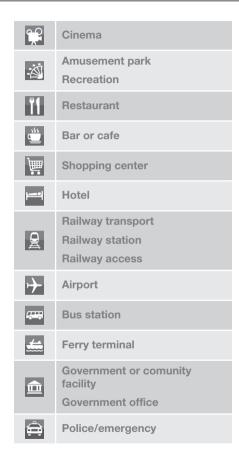
**Parking** 



Tourist attraction



Golf







#### Related information

- Navigation: setting a destination (p. 16)
- Navigation map options (p. 27)
- Navigation guidance alternatives (p. 29)
- Navigation map and system information (p. 38)
- Navigation importing/exporting stored locations (p. 32)

## Navigation - itineraries

This article shows how to create an itinerary and start guidance to the desired destination.

An itinerary is created when a destination has been saved. The system handles one itinerary at a time, with a maximum of 4 intermediate destinations (waypoints).



A destination must be selected before an itinerary can be activated.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Itinerary.
- To add intermediate destinations (waypoints), select Add another waypoint.

Up to four intermediate destinations can be added to an itinerary. To change their order in the itinerary, see "Reordering intermediate destinations" below.

- For more detailed information about an intermediate destination, select it, press the thumb wheel/OK/MENU and select Information.
- 4. Select Start guidance.
  - > The current itinerary will be activated and guidance will begin unless the Route proposal(p. 22) function is activated.
- 5. If Route proposals is activated, select the type of route desired.
  - > The current itinerary will be activated and guidance will begin.

### Canceling guidance

- In the navigation system's normal view, press NAV and select Cancel guidance.
  - > Guidance will be canceled.

#### Resuming guidance

- In the navigation system's normal view, press NAV and select Resume guidance.
  - > Guidance will be resumed.

# N/s

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## **Modifying itineraries**



- Select the intermediate destination and confirm by pressing the thumb wheel/OK/MENU.
- 2. Select one of the following:
  - Delete: remove the intermediate destination from the list.
  - Move in list: reorder the list (see the following heading).
  - Save: stores (saves) the intermediate destination.

## **Reordering intermediate destinations**

- Select the intermediate destination to be moved in the list and confirm by pressing the thumb wheel/OK/MENU.
  - > A pop-up menu will open.
- Select Move in list and confirm by pressing the thumb wheel/OK/MENU.

- Turn the thumb wheel/TUNE to move the intermediate destination up/down in the list.
- Confirm by pressing the thumb wheel/OK/MENU.

### Deleting (clearing) an itinerary

- In the navigation system's normal view, press NAV and select Itinerary → Clear itinerary.
  - > The current itinerary and its intermediate destinations will be deleted.

#### Related information

- Navigation: setting a destination (p. 16)
- Navigation routes (p. 22)
- Navigation importing/exporting stored locations (p. 32)

## Navigation - routes

A route can be displayed in detail or an overview can be selected. This article describes how an alternative route can be selected from a list of pre-calculated ones.



## Avoiding a route

This function enables the driver to avoid the next section of a route. This feature will only function if there are alternative streets/roads available. Otherwise, the marked section of the route will be completely/partially ignored.

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route → Avoid.



### 2. Select one of the following:



Highlighted section of a route

- Reroute: the system will calculate a new route that avoids the highlighted section.
- Longer: the section of the route to be avoided will be extended.
- **Shorter**: the section of the route to be avoided will be shortened.
- Delete: the highlighted section of the route will be deleted and the route will be restored to its original version.

The **Avoid** area feature functions in a similar way but allows you to avoid an entire area on the map, see Route options (p. 25).

#### **Alternative routes**

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route → Alternative routes to destination.
- 2. Select an alternative Route type:



- ECO with traffic adaption: prioritizes low fuel consumption<sup>4</sup>.
- Fast: prioritizes the shortest possible travel time.
- Fast with traffic adaption: the quickest route to your destination with the fewest number of traffic problems<sup>4</sup>.
- Short: the shortest route is prioritized and may also include secondary roads.

#### Route overview

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route → Route overview.
  - Information about the route's intermediate and final destination will be displayed.



#### **Detailed route information**

This option displays detailed information about the route between two intermediate destinations (exits. intersections, etc.).

<sup>4</sup> Coordinated with information from traffic radio.

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- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route → Detailed route information.
  - Information about the route's intermediate and final destination will be displayed.



Detailed section of a route

- Zoom in/Zoom out: change the map scale for the current section of the route.
  - Next: go to the next section of the route.
  - Previous: go to the previous section of the route.

## Map of the remaining part of the route This function shows the remaining section of your route.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route Map of remaining route.
  - > A map with the remainder of the route, from the vehicle's current location, will be displayed.



For a list of the available functions, see Menus(p. 10).

## Recording a route

You can record and store a route in the navigation system's memory.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Route → Record route.
  - > Recording will begin (the "REC" symbol will be displayed while recording is in progress).

- To stop recording, press the thumb wheel/OK/MENU and select Route → Stop recording.
  - > The recorded route will be saved.

Recorded routes can be opened in Set destination → Stored location → Routes.



Recorded routes can be exported/copied to a USB flash drive<sup>5</sup> for use with another vehicle's navigation system. For additional information, see Importing/exporting stored locations(p. 32).

### **Related information**

- Navigation itineraries (p. 21)
- Sensus navigation (p. 10)
- Navigation traffic information (p. 34)
- Navigation troubleshooting (p. 42)

<sup>&</sup>lt;sup>5</sup> Connected to the USB socket in the tunnel console.



## **Navigation – route options**

Route option settings include e.g., type of route and the number of alternative routes.



## **Route options**

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings Route options.
- 2. Select the type of route:
  - ECO with traffic adaption: prioritizes low fuel consumption<sup>6</sup>.
  - Fast: prioritizes the shortest possible travel time.
  - Fast with traffic adaption: the quickest route to your destination with the fewest number of traffic problems<sup>6</sup>.
  - Short: the shortest route is prioritized and may also include secondary roads.

#### Rerouting on request

This selection enables you to request a new route based on e.g., traffic information.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Reroute on request.
- 2. Select a function:
  - Checked box: recalculation of the route has to be confirmed by pressing the thumb wheel/OK/MENU or ignored by pressing EXIT.
  - Empty box: the system will automatically recalculate the route.

### Route proposals

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Route proposals. 2.



Route proposals

### Select one of the following:

- 1: guidance will begin along the route calculated by the system.
- 3: The system will propose three different routes. One of them must be selected before guidance can begin. It may take slightly longer before guidance begins because the system has to first calculate three suitable alternatives.

### Using carpool lanes<sup>7</sup>

Private vehicles are sometimes allowed to use lanes reserved for buses, etc., assuming the vehicle has at least one passenger. If this

<sup>6</sup> Coordinated with information from traffic radio.

<sup>7</sup> This function is only available if this type of information is included in the map database.



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alternative is activated, lanes of this type will be included when a route is calculated.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Use carpool lane.
- 2. Select one of the following:
  - Never
  - For 2 persons
  - More than 2 persons

### Using express lanes<sup>7</sup>

Private vehicles are sometimes allowed to use lanes reserved for buses, etc., assuming the vehicle is classed as an eco-vehicle. If this alternative is activated, lanes of this type will be included when a route is calculated.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Use express lane.
- 2. Select one of the following:
  - Checked box: express lanes will be included when a route is calculated.
  - Empty box: express lanes will not be used.

## Avoiding an area<sup>7</sup>

This feature allows you to avoid an entire area on the map when a route is calculated. It can be used to avoid being guided through a particular area, with the exception of highways, which are used when a route is calculated even through "avoided" areas.

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Avoid area.
- Select and area along the route that will be avoided (if this area is already on the list of previously selected areas, continue with the next step):
  - Select area on map: Select an area on the map (see the section "Selecting an area on the map" below for additional information).
  - From stored location: select from the list of previously stored areas.
  - > The selected area will be added to the list of areas to be avoided.

3.



To select an area from the list, press the **thumb wheel/OK/MENU** and select **Activate**.

It is also possible to **Edit**, **Deactivate** and **Delete** an area on the list.

> The area will be avoided when a route is calculated.

 $<sup>\</sup>ensuremath{^{7}}$  This function is only available if this type of information is included in the map database.



#### Selecting an area on the map

An area to be avoided is selected by marking it directly on the map using a "box" (see the following illustration).



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Route options → Avoid area → Select area on map.
- Scroll on the map to move the cursor to the desired area.
- 3. Press the thumb wheel/OK/MENU.
  - > A red box will be displayed.
- Turn the thumb wheel/TUNE to adjust the size of the box.
- 5. Press the **thumb wheel/OK/MENU** when the box covers the desired area.
  - > This area will be stored and displayed in the list of areas to be avoided.

To avoid being guided through an area on the list, it must first be activated, see the previous section "Avoiding an area".

# Avoiding certain types of roads/types of transport <sup>7</sup>

- In the navigation system's normal view, press OK/MENU and select Settings → Route options:
  - Avoid highways
  - Avoid toll roads
  - Avoid tunnels
  - Avoid ferries
  - Avoid car trains
  - Avoid vignette obligation

#### Related information

- Navigation traffic information (p. 34)
- Navigation itineraries (p. 21)
- Navigation: setting a destination (p. 16)
- Sensus navigation (p. 10)

## Navigation - map options

This feature enables you to make settings for displaying the map on the screen.



### Full-screen map

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Show full-screen map.
- 2. Choose a size:
  - Checked box: the map will be displayed over the entire screen.
  - Empty box: other information, such as a track being played on the infotainment system and passenger compartment temperature will still be displayed on the upper and lower sections of the screen respectively.

<sup>7</sup> This function is only available if this type of information is included in the map database.



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### Map type

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Map type.
- Select how the map is to be displayed on the screen:
  - North up: the map will always have north at the top of the screen. The "vehicle" symbol will move in the current direction on the screen.
  - Map heading up: the "vehicle" symbol will be at the center of the map and will always point upward. The map will rotate under the symbol, depending on the direction of the road.
  - 3D map basic: the map will be displayed at an angle from above and the "vehicle" symbol will be at the center of the map and will always point upward.
  - 3D map enhanced: the same as 3D map basic but with objects such as buildings, etc. displayed on the map.

## **Highway information**

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Highway information.

#### 2. Select a function:

- Checked box: If you are driving on a highway, the next 3 exits will be displayed, e.g., exits where there are rest areas or gas stations. The list is sorted so that the nearest exit is at the bottom of the list.
- Empty box: the function is deactivated.

### Information about the current location

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Position information.
- Select the type of information to be displayed:
  - Current road: the name of the road where you are driving/cursor is pointing is displayed.
  - Lat/Long: the location's co-ordinates where you are driving/cursor is pointing is displayed.
  - None: No information will be displayed.

### Compass

The direction in which you are driving will displayed as a compass pointer or with letters.



The compass needle's red pointer points to the north. A text-based compass can also be selected.



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Compass.
- Select to display the compass needle or letters:
  - Graphic: a compass needle symbol indicates the compass heading.
  - Text: the letters N (north), W (west), S (south) or E (east) indicate the compass heading.

Set the map orientation (north or direction toward the top of the screen). See also the previous section "Compass."



### Points of interest (POIs) on the map

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → POI symbols.



The selected POI s will be displayed on the map

- 2. Select the POI symbols to be displayed on the map:
  - Default: POIs chosen using the Selected function will be displayed.
  - Selected: Turn the thumb wheel/ TUNE to scroll and select each desired POI by pressing the thumb wheel/OK/ MENU. The selected POIs will be displayed on the map.
  - None: no POIs will be displayed.

In order to make the map easier to read, the number of POIs that are displayed at the same time is limited. Zoom in on an area to display more POIs.

### Map colors

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Map colors.
- 2. Select among the following:
  - Automatic: a sensor monitors the ambient lighting conditions and changes map colors automatically.
  - Day: colors and contrast are adapted for daylight conditions.
  - Night: colors and contrast are adapted for dark conditions.

### Stored locations on the map

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Map options → Stored location on map.
  - > All stored locations are listed here.

### **Related information**

- Navigation route options (p. 25)
- Navigation guidance alternatives (p. 29)
- Navigation points of interest (POI) symbols (p. 20)
- Navigation importing/exporting stored locations (p. 32)

## Navigation – guidance alternatives



Settings → Guidance options

#### Arrival or remaining time

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Time of arrival format.
- 2. Select one of the following:
  - ETA: estimated arrival time
  - RTA: estimated remaining travel time

## Street names in voice guidance

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Street names in voice guidance.

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- 2. Select one of the following:
  - Checked box: distance, direction and street/road names will be provided.
  - Empty box: distance and direction only will be provided.

### Turn-by-turn navigation8



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Turn-by-turn navigation.
- 2. Select one of the following:
  - Checked box: displays the next turn in your route and the distance to it.
  - Empty box: no information will be displayed.

#### **Automatic read-out**

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings 

  Guidance options 

  Automatic read out of traffic.
- 2. Select one of the following:
  - Checked box: important traffic announcements will be read aloud.
  - Empty box: no read-out.

#### Automatic audio fade-out

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Audio fadeout.
- 2. Select one of the following:
  - Checked box: infotainment system audio will fade out while the navigation system is providing audible information.
  - Empty box: no fade-out.

### Voice guidance

Audible guidance will be provided as the vehicle approaches the next guidance point. A detailed map will also appear on the center console screen. The voice guidance will be repeated as the vehicle gets closer to the guidance point. To repeat the voice guidance, press the **thumb wheel/OK/MENU** twice.

Use the infotainment system's volume control to adjust voice guidance volume (while the system is providing voice guidance).



### NOTE

Voice guidance will not be provided while a call using a Bluetooth-connected cell phone is in progress.

- 2. Select one of the following:
  - Checked box: the distance to the guidance point and the action to be taken will be provided.
  - Empty box: no voice guidance will be provided.

### Simple voice guidance

Voice guidance is normally repeated 3 times prior to each guidance point on your route: once in advance, once immediately prior to the required action and once when the action should be taken.

With simple voice guidance activated, voice guidance will only be provided once for each guidance point.

<sup>8</sup> Certain models only.

## 02 Setting a destination, itinerary and route

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings 
  Guidance options 
  Use simple voice guidance.
- 2. Select one of the following:
  - Checked box: voice guidance will only be provided once for each guidance point.
  - Empty box: no voice guidance will be provided.

#### Speed cameras

- 2. Select one of the following:
  - Checked box: an audible and visual signal will be provided to alert the driver that the vehicle is approaching a speed camera.
  - Empty box: no warning will be provided.

## NOTE

- Speed limits can be changed and may not correspond to the information in the navigation system's database.
- The driver is always responsible for obeying traffic and speed regulations.
- The type of information that may be displayed on the map is regulated by national/regional legislation. See support.volvocars.com for up-to-date information.

#### Stored location notification

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Stored location notification.
- 2. Select one of the following:
  - Checked box: an audible signal alerts the driver that the vehicle is approaching a stored location.
  - Empty box: no audible signal will be provided.

### Speed limit alerts9

- 2. Select one of the following:
  - Checked box: the current speed limit will be displayed in the instrument panel<sup>10</sup>.
  - Empty box: the speed limit will not be displayed.

#### Travel points of interest (POI) alert

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Guidance options → Travel POI notification.
- 2. Select one of the following:
  - Checked box: an audible signal alerts the driver that the vehicle is approaching a POI that is included in a Travel guide (p. 16).
  - Empty box: no audible signal will be provided.

### Travel guide alert

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings 

Guidance options 

Guided tour notification.

 <sup>9</sup> Available in vehicles equipped with the optional Road sign information system and is not available in all markets.
 10 If speed limit information is included in the map database.

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- 2. Select one of the following:
  - Checked box: an audible signal alerts the driver that the vehicle is approaching an area included in a Travel guide (p. 16).
  - Empty box: no audible signal will be provided.

#### Related information

Navigation – traffic information (p. 34)

# Navigation – importing/exporting stored locations

Stored destinations or routes can be imported or exported from one vehicle to another.

Points of interest (POIs) can only be imported if the file format is .gpx.

 Connect a USB flash drive to the USB socket in the tunnel console storage compartment.



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings → Import/export stored locations.
- 3. Select what is to be imported/exported.



## NOTE

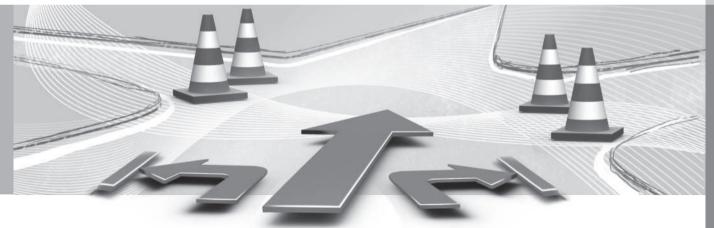
The format for POI files and how they can be downloaded from the Internet is determined by their respective manufacturers/ distributers, which means that there is no standardized process for doing so. Therefore, this article cannot provide exact step-by-step instructions. Contact your Volvo retailer if you have any questions.

#### **Related information**

- Navigation: setting a destination (p. 16)
- Navigation itineraries (p. 21)
- Navigation routes (p. 22)
- Navigation points of interest (POI) symbols (p. 20)



## TRAFFIC INFORMATION







## Navigation - traffic information

The navigation system constantly receives updated traffic information, which is used for dynamic guidance. When situations occur that may cause delays (e.g., an accident, road work), this will be displayed on the screen. If a destination has been set, the route to it will be recalculated, which can occur automatically or require confirmation, see Rerouting on request(p. 25).

TMC is a standardized system for broadcasting traffic information. The vehicle's radio automatically tunes to the correct frequency.

Traffic information is displayed differently depending on whether or not a destination has been set.



This symbol indicates that traffic information is available in the current broadcast area and will displayed in two colors depending on the importance of the information:

- **RED**: the information will be read aloud and the location of the problem will be shown on the map.
- YELLOW: the information will not be read aloud but the location of the problem will be shown on the map.



This symbol marks the location of a traffic problem. For more information, see "Traffic information on the map" below



## NOTE

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

The transmission range for traffic information is being increased continuously.

## Activating/deactivating

- 1. In the navigation system's normal view. press the thumb wheel/OK/MENU and select Traffic information.
- 2. Check/uncheck the box to activate/deactivate the function.

## Traffic information without a set destination

This function makes it possible to show traffic problems in situations where no destination has been set.



Scroll function on the map opens

#### Traffic information on the map

- 1. In the navigation system's normal view, press the thumb wheel/OK/MENU and select Traffic information → Traffic on map.
- Search for traffic problems using the scroll function, see also "Traffic information with a set destination" below.

#### All traffic

- 1. In the navigation system's normal view. press the thumb wheel/OK/MENU and select Traffic information → Traffic on map.
  - > A list of all traffic announcements in the current broadcast area will be displayed.
- 2. Select what is to be displayed, see also "Traffic information with a set destination" > "All traffic."



### Traffic information with a set destination

This function shows traffic problems when a destination has been set.



# Listening to traffic announcements along a route

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Traffic information → Listen to traffic on route.
  - > Current traffic announcements along the route will be read aloud.

#### All traffic

- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Traffic information → All traffic.
  - > All traffic information in the current broadcast area will be listed. Traffic information is primarily grouped by country (in border areas) followed by road numbers and street names.

- Select a traffic problem and confirm by pressing the thumb wheel/OK/MENU.
  - > The traffic problems will be listed with the most serious ones at the top of the list.
- Select a traffic problem and confirm by pressing the thumb wheel/OK/MENU.
  - > Additional information and the location on the map will be displayed. The map image will be centered around the location of the problem.



Traffic information on the map

### Traffic information on the map

 In the navigation system's normal view, press the thumb wheel/OK/MENU and select Traffic information → Traffic on map.

- For detailed information, scroll the map until the cursor is over the traffic problem/ symbol desired.
  - > A yellow frame will appear around the symbol.
- Confirm by pressing the thumb wheel/OK/MENU.
  - > The following information will be displayed if available:
    - street name/road number
    - country
    - type of problem
    - extent of the problem
    - expected duration of the problem

If there are several traffic problems inside the cursor's frame, the first problem displayed will be the one closest to the center of the cursor.

Numbers such as "2/5" at the top of the screen indicate that the current information is the second problem of a total of five within the frame. Press the **thumb wheel/OK/MENU** repeatedly to toggle to the other information.

### **03 Traffic information**

Direct listed information



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Traffic information → Traffic on map.
  - Direct listed traffic problems (two in the previous illustration) indicate that the information pertains to your current itinerary.

- Select a traffic problem and confirm by pressing the thumb wheel/OK/MENU.
  - > Additional information and the location on the map will be displayed. The map image will be centered around the location of the problem.



Traffic problem on the map

#### Extent of a traffic problem

Some traffic problems may affect an extended area and this function shows the extent (scope) of the problem.

In addition to the symbol marking the location of the traffic problem, the effected stretch of road will be indicated by red Xs (xxxxx).

- The number of Xs indicates the extent of the problem.
- The direction is indicated by the side of the road that the Xs are on.



Extent of a traffic problem

Size of the traffic information area
The map scale determines the amount of traffic information that can be displayed. The
larger the area on the maps, the greater the
number of traffic problems that can be
shown.

#### **Related information**

- Navigation guidance alternatives (p. 29)
- Navigation: setting a destination (p. 16)
- Navigation itineraries (p. 21)



### MAP AND SYSTEM INFORMATION





### Navigation – map and system information

Volvo offers maps covering North America as well as other parts of the world.

During updates, new information is added and older, possibly outdated information is removed.

### System information



- In the navigation system's normal view, press the thumb wheel/OK/MENU and select Settings -> System information.
  - > A summary of the current navigation system status, such as the current traffic information transmitter, operative map data and map version will be displayed.

### Map content



### NOTE

Map data may not provide complete coverage of all remote areas.

The areas covered are constantly being expanded, which means that map updates are necessary occasionally. Contact your Volvo retailer.

See support.volvocars.com for map and other Sensus Navigation-related information.

#### Map areas

The map information in your vehicle is determined by your country/market. Contact a Volvo retailer if map information for another area is required.

#### Map updates

Map updates are downloaded from the Internet<sup>1</sup> to a USB flash drive<sup>2</sup>. The information is then transferred to the vehicle's navigation system using the USB socket in the tunnel console.



### NOTE

- Instructions for downloading information and updating the navigation system are available on the Internet.
- For questions regarding updates, contact a Volvo retailer or go to support.volvocars.com.

<sup>&</sup>lt;sup>1</sup> See the information at support.volvocars.com.

<sup>2</sup> The flash drive must have at least 20 Gb of free space.

### **Updating**

Follow the on-screen instructions for updating the navigation system. They will show the various stages in the update procedure and the time remaining.



### NOTE

Some of the navigation system's functions will be disabled or reduced while updating is in progress.

- 1. With the vehicle parked outdoors, start the engine.
- Connect the USB flash drive to the vehicle's USB socket and follow the instructions shown on the center console screen.
  - > When Map update finished is displayed, the procedure is completed and all of the navigation system's functions can be used normally.

Updating the system may add new functionality that is not described in this manual.

Resuming an interrupted update
If the update was not completed when the
engine was switched off, the procedure can
be resumed where it left off the next time the
engine is started if the USB flash drive is still
connected. If the flash drive has been
removed, start the engine and reconnect the
USB flash drive.

When **Map update finished** is displayed, the procedure is completed.

#### **Related information**

- Navigation License agreements and copyrights (p. 44)
- Navigation troubleshooting (p. 42)
- Sensus Navigation (p. 6)

### Navigation - Menu overview

This article provides an overview of the navigation system's menu alternatives and possible settings that can be made.

Three menu levels are shown here. In certain cases, there may be additional levels, which are described in their respective articles.

 In the navigation system's normal view, press the thumb wheel/OK/MENU to open the menu.

Repeat voice guidance	(p. 29)
Set destination	(p. 16)
Home	(p. 16)
Address	(p. 16)
Country:	
City:	
Street:	
Number:	
Intersection	
Set single destination	
Add as waypoint	
Information	
Save	

04



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Previous destination  Set single destination  Add as waypoint  Information  Save  Delete  Delete all	(p. 16)
Internet search	(p. 16)

Zip code	(p. 16)
Country:	
Zip code	
Street:	
Number:	
Intersection	
Set single destination	
Add as waypoint	
Information	
Save	
Latitude and longitude	(p. 16)
Latitude and longitude Format:	(p. 16)
· ·	(p. 16)
Format:	(p. 16)
Format: Set single destination	(p. 16)
Format: Set single destination Add as waypoint	(p. 16)
Format: Set single destination Add as waypoint Information	(p. 16)
Format: Set single destination Add as waypoint Information Save	* /
Format: Set single destination Add as waypoint Information Save  Select point on map	* /
Format: Set single destination Add as waypoint Information Save  Select point on map Set single destination	* /

Travel guide Start guidance Details Photos Play audio Pause audio	(p. 16)
Itinerary	
Start guidance Add another waypoint Clear itinerary	(p. 21)
Route	
Avoid  Reroute  Longer  Shorter  Delete	(p. 22)
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Record route or Stop recording	(p. 22)
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Street names in voice guidance	
Turn-by-turn naviga- tion	
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Use simple voice guid- ance	
Speed camera warn- ing	
Stored location notifi- cation	
Travel POI notification	
Guided tour notifica- tion	
ystem information	(p. 38)



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FAV key options	See the article "Favorites" in your owner's manual.
Import/export stored locations	(p. 32)

#### Related information

- Sensus navigation (p. 10)
- Sensus Navigation (p. 6)

### Navigation – troubleshooting

The following information provides examples of situations in which the navigation system may not seem to be functioning properly.

### The vehicle's position on the map is incorrect

Sensus Navigation uses the Global Positioning System (GPS), which indicates the vehicle's position with an accuracy of about 65 feet (20 meters).

Accuracy may be even less when driving on roads lying parallel to another road, winding roads, roads on several levels, and also after driving a long distance without making any distinct turns.

Tall buildings and mountains, tunnels, viaducts, over/underpasses etc., also have a negative affect on the reception of GPS signals, which means that the estimation of the vehicle's position may not be precise.

# The system does not always calculate the fastest/shortest route

Parameters such as distance, width of road, type of road, number of right or left turns, traffic circles etc., are all taken into account when calculating the best theoretical route. Experience and local knowledge may, however, lead to a better choice of route.

# The system chooses toll roads, freeways, and ferries even though I have opted to avoid them

When calculating routes over longer distances, for technical reasons the system can only use major roads.

If you opt to avoid for toll roads and freeways, they will be avoided as much as possible, but will be used if no other reasonable alternative is available.

### After being transported, the vehicle's position on the map is incorrect

If the vehicle is transported, for example by ferry or train, or in such a way as to impede the reception of GPS signals, it can take up to 5 minutes to calculate the car's new position correctly.

### The vehicle's position on the map is incorrect after its battery has been disconnected

If power has been cut from the GPS antenna, it can take more than 5 minutes for the GPS signals to be received correctly and the vehicle's position to be calculated.

# The "car" symbol on the map moves erratically after a tire change

In addition to the GPS receiver, the vehicle's speedometer and an onboard gyro are also used to calculate the vehicle's current location and direction of travel. If the spare tire is



put on the vehicle, or if a change is made from summer to winter tires (or vice versa), the navigation system must "learn" the new dimensions of the tire(s).

Therefore, it may be necessary to drive for several miles, including a number of full turns, for the system to make this adjustment.

### The map image does not correspond to actual conditions

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

The map database is enhance and updated regularly. Please contact your Volvo retailer for more information about availability.

See also support.volvocars.com for additional information about maps, etc.

### The map scale sometimes changes

There may not be detailed map information for certain areas. If such cases, the system automatically changes the map scale.

# The "car" symbol on screen jumps forward or spins

The system may need a few seconds to sense the vehicle's position and movement before you begin driving.

Switch off the ignition. Restart the engine but wait for a short period before beginning to drive.

### I am planning a long trip but do not want to specify a route to the cities that I will be passing through. What is the easiest way to set up an itinerary?

Select the final destination directly on the map using the cursor. The system will automatically guide you to the final destination even if you drive past intermediate destinations.

# The system's map information is not up-to-date

Contact your Volvo retailer about updating map information.

See also support.volvocars.com.

### $\triangle$

### WARNING

### **Navigating safely**

Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.

# What is the easiest way to check the current map version?

In the vehicle's menu system, go to Settings

→ System information for information about
the map version and which geographic area it
covers, see (p. 38).

#### Related information

- Navigation map and system information (p. 38)
- Navigation routes (p. 22)
- Navigation route options (p. 25)



# Navigation – License agreements and copyrights

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### **Related information**

- Sensus Navigation (p. 6)
- Navigation map and system information (p. 38)

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