### Types of roads

<table>
<thead>
<tr>
<th>Types of roads</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeways</td>
<td>Orange</td>
</tr>
<tr>
<td>Main roads</td>
<td>Dark gray</td>
</tr>
<tr>
<td>Secondary main roads</td>
<td>Gray</td>
</tr>
<tr>
<td>Normal roads</td>
<td>Light gray</td>
</tr>
<tr>
<td>Local roads</td>
<td>White</td>
</tr>
</tbody>
</table>

### Text and symbols on the screen

1. Direction to take at next guidance point
2. Distance to the next guidance point
3. Name of the next street or road
4. Stored location
5. Intermediate destination
6. Symbol for destination
7. Calculated remaining time to destination
8. Calculated remaining distance to destination
9. Compass
10. Traffic information
11. Extent of street/road with traffic problem
12. Current road (the vehicle’s current location [16])
13. Symbol for a Point of Interest – POI (Seafood restaurant)
14. Final destination
15. Route
16. The vehicle’s current location
17. Map scale
SENSUS NAVIGATION WITH RTT

RTT\(^1\) (Real Time Traffic) is an information system developed by Volvo, which can detect roads/streets with traffic disruptions and make it possible to select an alternative route past the problem area.

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

The system indicates the vehicle’s current location, and shows part or all of the route to your destination, depending on the settings you have made. If at any time you should decide to deviate from the route originally set by the system, a new route to the destination will automatically be calculated.

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

\(^1\) Option. Not available in all markets.
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Activating the system
The ignition must be switched on before the navigation system can be used.

ON
1. Press the remote key fully into the ignition slot.
2. If the system does not start within a few seconds, press NAV on the center console.

It may then take several seconds for the system to detect the vehicle’s location and direction. A map showing your current location will then be displayed. Your vehicle is shown as a blue triangle on the map.

**WARNING**
Observe the following.
- Direct all your attention to the road and make sure that all your concentration is on driving.
- Follow applicable traffic legislation and drive with good judgment.
- Due to weather conditions or time of year affecting the road conditions, some recommendations may be less reliable.

Off
The navigation system cannot be turned off but instead is active in the background when not displayed on the center console screen. 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 charge level is low.

Navigation system controls – quick guide
Volvo’s Sensus Navigation system can be operated in several ways:
- By using the right-side steering wheel keypad (p. 20).
- By using the controls on the center console (p. 19).
- By using voice commands (p. 22).
See also (p. 19).

Main controls
Both of the following examples are based on the steering wheel keypad.
01 Getting started

- Scroll/select by turning/pressing the thumb wheel (1).
- Activate selections by briefly pressing the thumb wheel (hereafter referred to in the examples as " + OK").
- Go back in a menu and/or cancel a selection by pressing EXIT (2).

Center console controls
The following apply if the center console controls are used instead of the steering wheel keypad:

<table>
<thead>
<tr>
<th>Steering wheel keypad</th>
<th>Center console controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn the thumb wheel</td>
<td>Turn TUNE</td>
</tr>
<tr>
<td>Press the thumb wheel</td>
<td>Press OK/MENU</td>
</tr>
<tr>
<td>Press EXIT</td>
<td>Press EXIT</td>
</tr>
</tbody>
</table>

Related information
- Activating the system (p. 9)
- Guidance to a destination (p. 10)
- Controls – introduction (p. 19)

Guidance to a destination
Guidance can be set to a destination or a point of interest (POI).

The navigation system calculates a route, travel time and the distance to the selected destination. It provides guidance and instructions at turns, intersections, etc.

If you leave the planned route during your trip, the system will automatically recalculate a new route.

Searching for an address

<table>
<thead>
<tr>
<th>Step</th>
<th>Screen/menu</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>If a map is not displayed on the screen:</td>
<td>Press NAV on the center console.</td>
</tr>
<tr>
<td>2</td>
<td>Map displayed</td>
<td>Press NAV to display the &quot;Shortcuts&quot; menu.</td>
</tr>
<tr>
<td>3</td>
<td>Shortcuts menu, see (p. 36).</td>
<td>Select Set address + OK.</td>
</tr>
<tr>
<td>4</td>
<td>Address</td>
<td>Scroll to City: + OK.</td>
</tr>
</tbody>
</table>

For detailed information about searching for a destination using an address, see (p. 44).
### Searching for a point of interest (POI)

<table>
<thead>
<tr>
<th>Step</th>
<th>Screen/menu</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>If a map is not displayed on the screen:</td>
<td>Press NAV on the center console.</td>
</tr>
<tr>
<td>2</td>
<td>Map displayed</td>
<td>Press NAV to display the &quot;Shortcuts&quot; menu.</td>
</tr>
<tr>
<td>3</td>
<td>Shortcuts menu, see (p. 36).</td>
<td>Scroll to Set point of interest + OK.</td>
</tr>
<tr>
<td>4</td>
<td>Point of interest (POI)</td>
<td>Select e.g., Near the car + OK.</td>
</tr>
<tr>
<td>5</td>
<td>&quot;Near the car&quot; menu and Results list.</td>
<td>Select e.g., Nearest tourist attraction + OK.</td>
</tr>
<tr>
<td>6</td>
<td>Results list</td>
<td>Select an alternative in the list + OK.</td>
</tr>
</tbody>
</table>

#### Step 7
- Screen/menu: Pop-up menu
- Action: Scroll to Set single destination + OK.

#### Step 8
- Screen/menu: Map displayed
- Action: Guidance will begin; follow the directions given.

For detailed information about searching for a destination using a POI, see (p. 46) and (p. 80).

**Related information**
- Activating the system (p. 9)
- Navigation system controls – quick guide (p. 9)
GETTING TO KNOW THE SYSTEM
Before you begin
You should be familiar with the following information before you begin using the navigation system.

General information
Volvo’s Sensus Navigation uses the WGS84 reference system, which provides the vehicle’s location in terms of longitude and latitude.

The navigation system can be used even if a destination has not been specified.

Points to remember
The navigation system provides guidance and road/traffic information to a preselected destination. The information may not always be accurate due e.g., to sudden changes in the weather, etc.

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.

Owner's information
Reading the owner’s information is good way to become familiar with the Sensus Navigation system.

Using the owner's information
A quick guide is available to help you get started with the basic functions as quickly as possible, see (p. 9).

The rest of the owner’s information provides more detailed descriptions of the navigation system’s features and functions.

Menu selections/paths
Menu selections are shown in gray text, for example: Set destination.

Menu paths are written as follows, e.g.,:

Set destination ➔ Address ➔ City:

Settings
The system is installed in the vehicle with factory default settings but if you have made personal settings, the system will use the most recent ones the next time the ignition is switched on.

Footnotes
Certain articles in this information contain information in the form of footnotes. This information supplements the text that the footnote number refers to (a letter is used if the footnote refers to text in a table).

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 dif-
ferently, depending on special legal require-
ments.
Contact your Volvo retailer for additional
information.

**Changes in the information**
The specifications, design features, and illus-
trations provided are not binding.
We reserve the right to make modifications
without prior notice.

© Volvo Car Corporation

**Related information**
- Before you begin (p. 13)
- Activating the system (p. 9)
- Sensus Navigation system overview
  (p. 16)
CONTROLS
Sensus Navigation system overview

The illustration is generic and may vary from model to model.
03 Controls

1 Global Positioning System (GPS) antenna
The antenna is integrated into the roof module.

2 Voice control
A number of features can be controlled with voice commands. The microphone (2a) is located in the ceiling liner above the driver’s side sun visor and the voice control button (2b) is located on the right-side steering wheel keypad. For more information, see (p. 22).

3 Main unit
The main unit is located in and behind the center console and includes the following functions:
- Determine the vehicle’s location (p. 31)
- Calculate a route to the selected destination (p. 43)
- Provide traffic information (p. 74)
- Voice guidance (p. 34)
The GPS receiver and the Traffic Message Channel (TMC) function are also integrated into the main unit.

Vehicle location
Using signals from the Global Positioning System (GPS), the speedometer and a gyroscopic sensor, the system calculates the vehicle’s current location and direction.

The advantage of this concept is that it also makes it possible to calculate direction and location if the GPS signal is temporarily interrupted, such as when driving through a tunnel.

Traffic information (TMC)
TMC is a standardized code system for transmitting traffic information. The receiver automatically tunes to the correct frequency and reception is handled by the audio system’s FM antenna.

NOTE
TMC is not available in all areas. The area covered by the system is being steadily expanded, which makes occasional updates necessary.

4 Screen
The screen displays the maps and provides detailed information about routes, distances, etc.

Screen care
Clean the display screen with a soft, non-static cloth or a moist paper towel and a mild window cleaning agent. Never use petroleum based solvents or abrasive substances when cleaning the screen.

CAUTION
Do not place any objects in front of the navigation system’s screen. This could scratch its surface. Cell phones could also interfere with the screen’s function.

5 Center console controls
The number keys in the center console can be used together with the OK/MENU, TUNE and EXIT buttons to scroll in menus, confirm a selection or go back in a menu. For additional information, see (p. 19).

6 Volume control and IR receiver
Use the vehicle’s audio system volume control during voice guidance to raise or lower the volume, see (p. 34). The volume can also be adjusted in the menu system.

Point the remote control toward the center console, where the Infrared (IR) transceiver is located.

7 Steering wheel keypad
The thumb wheel on the steering wheel keypad can be turned to navigate in lists and menus and pressed to confirm a selection. Use the EXIT button to go back in a menu or to cancel a selection, see (p. 20).

8 Speakers
Sound from the navigation system comes from the infotainment system’s front speakers.
Related information
- Controls – introduction (p. 19)
Controls – introduction
This article provides general information about the navigation system controls.

The navigation system is operated using controls on the steering wheel keypad (p. 20), on the center console (p. 19) or on the remote control (p. 20). All of the alternatives offer similar functionality.

Voice guidance
Voice commands can also be used, see (p. 22).

Related information
• Sensus Navigation system overview (p. 16)
• Center console controls (p. 19)
• Controls on the steering wheel keypad (p. 20)
• Remote control (p. 20)
• Voice control introduction (p. 22)

Center console controls
The navigation system can be operated using controls on the center console.

1 NAV activates the Sensus Navigation system on the screen. If the system is already on screen, pressing this button opens a shortcut menu, see (p. 36).

2 The Keypad is used to enter characters to set an address, etc., see also (p. 28) and (p. 38).

3 Press OK/MENU briefly to confirm or activate a selection. This is described in this manual as "+ OK".

4 Turn TUNE to scroll in a menu, or when a map is displayed to change its scale.

5 Press EXIT to go back in a menu or cancel a selection/function.

Related information
• Controls – introduction (p. 19)

1 Not available in all markets.
Controls on the steering wheel keypad

The navigation system can be operated using controls on the right-side steering wheel keypad.

The illustration is generic and may vary from model to model

1 Turn the thumb wheel to scroll in a menu, or when a map is displayed to change its scale.
2 Press the thumb wheel to confirm or activate a selection.
3 EXIT to go back in a menu or cancel a selection/function.

Remote control

The remote control can be used to control various navigation system functions.

- To use the remote control, point it toward the center console.

Button on the remote control

1 NAV: activates the navigation system on the screen. If the navigation system is already activated, pressing this button opens a shortcut menu. For additional information, see (p. 36).
2 EXIT: go back in a menu or cancel a function.
3 OK/MENU: confirm a selection. This button is described in the manual as “+ OK”.
4 Arrow keys: use to move the cursor among menu selections.
5 Keypad: use to e.g., enter a name/address or to scroll on a map.

NOTE

If the remote is not working properly, try replacing the AA/LR6 batteries.

WARNING

To help avoid the risk of injuries in the event of sudden braking or a collision, always stow loose objects such as the remote control, cell phones, cameras, etc. in the glove compartment or other storage compartments when not in use.

Related information

- Controls – introduction (p. 19)

3 Not available in all markets.
VOICE CONTROL
Voice control introduction

The navigation system's voice control feature enables you to voice-activate certain system functions.

Voice commands (p. 23) offer convenience and help avoid distractions so that you can concentrate on driving and focus your attention on road and traffic conditions.

**WARNING**

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

The voice control feature uses the same microphone as the hands-free system and prompts are provided through the infotainment system's front speakers.

The microphone is positioned in the ceiling liner in front of the driver. Voice commands given by other occupants of the vehicle may not be understood.

---

**Getting started**

Steering wheel keypad

1 Voice control button

**Activating the system**

- Press the voice control button (1) briefly to activate the system and after the tone, initiate a command dialogue.

Keep the following points in mind when using the voice control system:

- When giving commands, after the tone, speak at your usual speed and in a normal tone of voice
- The vehicle's doors, windows and moonroof should be closed when using the voice control system
- Avoid background noises in the cabin when using the system

**NOTE**

If you are uncertain of the commands that you can use, saying "Help" after the tone will prompt the system to provide a number of commands that can be used in a specific situation.

Voice control commands can be cancelled by:

- Pressing EXIT
- Pressing and holding the voice control button for several seconds

**Related information**

- Using voice commands (p. 23)
- Voice control help functions and settings (p. 23)
- Selecting a voice control language (p. 25)
Using voice commands

Using voice commands is an easy way to operate the system and commands that can be used in a specific situation will be shown on the screen.

Command dialogs

To start a command dialog:

1. Press the voice control button briefly. A list of commands will be displayed on the screen.

Commands can be given in several ways

For example, the command "Navigation > Set address" can be spoken as:

- Begin by saying "Navigation," wait for a system response in the form of on-screen alternatives and continue by saying "Set address."

or

- Give the entire command at one time, i.e., "Navigation Set address."

Useful tips

- Initiate a voice command by pressing the voice control button and speaking at your usual speed and in a normal tone of voice.

- To respond to the system, speak after the tone.

- The system will give a prompt several times. If the driver does not respond, the command dialogue will be cancelled.

- A command dialogue can be speeded up by interrupting a system prompt by pressing the voice control button briefly. Wait for the tone and begin to speak.

- Saying "Help" after the tone will prompt the system to provide a number of commands that can be used in a specific situation.

**NOTE**

A complete list of shortcut commands can be found by pressing: MY CAR ➔ Settings ➔ Voice control settings ➔ Command list.

Volume

Voice command volume can be adjusted by turning the infotainment system’s VOL control while the system is speaking.

Voice control help functions and settings

Voice tutorial gives the driver step-by-step instructions about using the system.

You can also set up a user profile for a specific driver.
04 Voice control

Voice control introduction

Scroll to Introduction to voice control + OK for information about how voice control functions and to become familiar with the system's features and the procedure for giving commands.

List of commands

Scroll to Command list + OK to display a complete list of voice control commands.

User Setting (profile)

Using the voice tutorial will help the driver become proficient at using the system.

NOTE

The tutorial can only be started when the vehicle is parked and the parking brake is applied.

Training

Scroll to User setting + OK to start a training program to help the system "learn" your voice and pronunciation.

After the tone, repeat the words and phrases read aloud by the system. This takes approximately 5 minutes.

When the training has been completed, a setting can be made by marking your choice + OK:

- Default: the standard setting if no voice profile has been established.
- Trained user: Voice training has been completed. The system is adapted to the specific user.

NOTE

The menu alternative Default can be changed to Trained user after one User setting session has been completed.

See also the heading "Changing languages" in the Selecting a voice control language (p. 25) article.
Scroll to Speaker adaptation + OK to start a program that helps the voice control system learn to understand your voice and pronunciation even better than when a user profile was set (see the previous section).

Read out speed

Scroll to Read out speed + OK to change the speed at which voice prompts are read:
- Fast
- Medium
- Slow

Related information
- Voice control introduction (p. 22)
- Using voice commands (p. 23)
- Selecting a voice control language (p. 25)

Selecting a voice control language
The voice control system (p. 22) is constantly being developed and at the time this information was produced, the following languages were available:
- English (US)
- French (CDN)
- Spanish (Mexico)

Related information
- Voice control introduction (p. 22)
- Using voice commands (p. 23)
- Selecting a voice control language (p. 25)

NOTE
Navigation system voice commands can only be given in languages listed.

Changing languages

To change languages, go to MY CAR ➔ Settings ➔ Language, mark the language + OK + NAV.

Language-dependent user profile
The voice control feature will only understand the languages set in MY CAR.

For example, assume that a Trained user profile has been saved by a French-speaking driver with the system set to French. If the driver then changes languages (in MY
04 Voice control

04 Voice control

(CAR) to **English**, voice control will not function.

This is because this **Trained user profile** is set to only understand commands given in **French** and cannot be selected since the system will now only understand commands given in **English**. The system will activate **Default** instead.

For the system to understand **English** commands, a new user profile will have to be set, in which case the system language must be set to **English**.

**NOTE**

If a language is changed in **MY CAR**, please note that voice commands, voice guidance, menus and help texts will all use the selected language.

**Related information**
- Voice control introduction (p. 22)
Entering text and making selections

Use the navigation system’s text wheel or the center console keypad to enter characters, e.g., for an address, point of interest, etc.

Screen view for entering an address
The navigation system uses a text wheel for entering information.

Activating a selection
Scrolled to the desired function/field by turning the thumb wheel or TUNE and press the thumb wheel/OK to see the next screen for this selection.

Entering characters with the text wheel

1. Press OK to display the text wheel.
2. Select a character by turning the thumb wheel or TUNE and enter it by pressing the thumb wheel or OK.

Entering characters with the center console keypad

Characters can also be entered using the center console keypad: 0–9, *, and #.

9 WXYZ For example, pressing key 9 will display all of the characters available on that key, e.g., w, x, y, z and 9. Press repeatedly to select the letter/number of your choice.

Erase or cancel by pressing EXIT.

Special characters on the text wheel

NOTE

Grayed-out characters cannot be selected in a particular context.

1 The illustration is generic and may vary from model to model.
The text wheel can also be used to enter numbers or special characters:

- Scroll to 123/ABC + OK: the text wheel will change to numbers or uppercase letters.
- MORE + OK: makes it possible to select special characters.
- => + OK: the cursor will move to the list that has been displayed on the right side of the screen (if any information has been found matching the characters that you have entered). Scroll to the selection of your choice and press OK.
- Zip code + OK: the cursor will move to the list that has been displayed on the right side of the screen. Scroll to the selection of your choice and press OK, see also (p. 49).

**Lists of selections**

As characters are entered, a list will be compiled on the right side of the screen showing names, etc., that match the characters that you have entered.

In this example, the number "3" in the upper right corner of the screen indicates that the list contains three possible selections that match the characters entered (e.g., NEW YORK).

**No list**

An empty list and the characters "***" in the upper right corner of the screen indicate there are more than 1,000 matches for the characters entered. Enter additional characters to limit the scope of the search. The actual number of selections will then be shown.

**Related information**

- Controls – introduction (p. 19)
MAPS, COMPASS AND VOICE GUIDANCE
Map views – several examples
The following illustrations show examples of different ways of displaying the vehicle’s current location.
These illustrations are generic. Details may vary depending on software version, etc.

The map view is determined by your geographic location and the settings that have been made, such as map scale, the POIs that have been selected for display, etc.

An overview of the text and symbols used can be found on the inside of the front cover.
1 Setting an itinerary: three alternative routes are calculated, see (p. 61).

2 Detailed view of intersections/turns: The left side of the screen shows a detailed view of the next intersection/turn in your route. Voice guidance is also provided, see (p. 34).

3 The box shows an area that will be avoided when a route is calculated, see (p. 63).

4 Scroll mode, see (p. 38).

Related information
• Compass (p. 34)
• Voice guidance (p. 34)
**Compass**

*A compass is displayed on the map showing the direction in which the vehicle is moving.*

The red point on the compass needle points north on the map and the white end of the needle points south.

A text-based compass can also be selected, see (p. 65).

**Related information**

- Map views – several examples (p. 31)

---

**Voice guidance**

*After a destination (p. 43) has been specified and the vehicle approaches an intersection or turn, voice guidance will be given with the distance to the turn and the action that the driver should take. A detailed map of the intersection (p. 31) will also be displayed. Voice guidance will be repeated as the vehicle gets closer to the intersection.*

While voice guidance is in progress, its volume can be adjusted using the infotainment system’s volume control.

To repeat voice guidance:

- Press **OK** twice.

For additional information, see the heading "Voice guidance" (p. 67).

**NOTE**

Voice guidance will not be provided during a call using a Bluetooth-connected cell phone.

For voice guidance in another language, see Voice control (p. 25).

**Related information**

- Guidance options (p. 67)
MENUS
Menus system
The navigation system's menus consist of shortcuts, main menus and scroll menus.

NOTE
Grayed-out menu alternatives on the screen can currently not be selected.

Related information
- Shortcuts (p. 36)
- Main menu (p. 37)
- Scroll mode (menu) (p. 38)
- The menu structure (tree) (p. 39)

Shortcuts
The navigation system has a shortcut menu providing easy access to the most commonly used features.

Displaying the shortcut menu from the map view
- Press the NAV button.

Displaying the shortcut menu from another menu
- Press the NAV button twice.

The shortcuts include:
- Set address: see (p. 44).
- Set point of interest: see (p. 46).
- Previous destinations: see (p. 48).
- Itinerary: see (p. 53).
- Traffic information: see (p. 74).
- Internet search: see (p. 48).

Additional information
The illustration is generic and may vary from model to model

If there is more information available than can currently be displayed on the screen, the line of text will end with the "#" character.

To display the remaining information:
- Press the INFO button on the center console.
- **Cancel guidance**: cancels/pauses the current itinerary. The menu text will change to *Resume guidance*.
- **Turn off voice guidance/Turn on voice guidance**: deactivates/reactivates voice guidance. If it is deactivated, voice guidance will be given each time the main menu’s top line is selected: *Repeat voice guidance*, see (p. 37).

**Related information**
- **Main menu** (p. 37)
- **Scroll mode (menu)** (p. 38)
- **The menu structure (tree)** (p. 39)

---

**Main menu**

*The main menu is at the top of the navigation system’s menu structure (tree).*

<table>
<thead>
<tr>
<th>Navigation menu</th>
<th>Repeat voice guidance</th>
<th>Set destination</th>
<th>Itinerary</th>
<th>Route</th>
<th>Traffic information</th>
<th>Cancel guidance</th>
<th>Settings</th>
<th>Repeat last voice guidance</th>
</tr>
</thead>
</table>

**Returning to the map**

You can easily return to the map view regardless of where you are in menu structure (tree) (p. 36):
- Press the **NAV** button.

**Related information**
- **Shortcuts** (p. 36)

---

**Accessing the main menu from the map view**
- Press the **OK** button.

**Accessing the main menu from another menu**
- Press **NAV** followed by **OK**.

**Repeating voice guidance**
- With *Repeat voice guidance* highlighted (selected), press the **OK** button to repeat the most recent guidance instructions. The instructions will be repeated each time **OK** is pressed, see (p. 34).

Or if the map is displayed on the screen:
- Press the **OK** button **twice**.

Voice guidance can also be deactivated, see (p. 36).
Scroll mode (menu)

In scroll mode, the cursor is moved across the map using number keys on the center console (p. 19).

Activating scroll mode from the map view

- Press one of the number keys 0–9 on the center console.

Scrolling

- Press one of the following 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 (see the illustration).

Zooming

- Turn TUNE on the center console.

Number key "5"

Pressing key 5 in scroll mode will center the map around the vehicle’s 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.

Exiting scroll mode

- Press EXIT or NAV.

Cursor

Press OK to display a menu for the point on the map that the cursor is pointing to:

- 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 about POIs, see (p. 46).
- Traffic information on map: makes it possible to see any available traffic information for the marked location.

1 You can set the cursor to show a name or GPS coordinates, (p. 65).
2 Not available in all areas.
• Information: displays any available information about the marked location.
• Save: stores the marked location in the system’s memory.

Related information
• Menus system (p. 36)

The menu structure (tree)
The following table provides an overview of the navigation system menu structure:

<table>
<thead>
<tr>
<th>Menu level 1</th>
<th>Menu level 2</th>
<th>Menu level 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Menus/functions
Three of the menu structure’s levels are shown. Menu level 3 may in certain cases also have submenus, which will be explained in the respective articles.

<table>
<thead>
<tr>
<th>Repeat voice guidance</th>
<th>Set destination</th>
<th>Home</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Address
State:
City:
Street:
Number:
Junction:
Set single destination
Add as waypoint
Information
Save

Point of interest (POI)
By name
By category
Near the car
Along the route
Near the destination
Around point on map

Stored location
Set single destination
Edit
Delete
Delete all
<table>
<thead>
<tr>
<th><strong>07 Menus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>07</strong></td>
</tr>
<tr>
<td><strong>Internet search</strong> (p. 48)</td>
</tr>
<tr>
<td><strong>Zip code</strong> (p. 49)</td>
</tr>
<tr>
<td><strong>Previous destination</strong> (p. 48)</td>
</tr>
<tr>
<td><strong>Latitude and longitude</strong> (p. 49)</td>
</tr>
<tr>
<td><strong>Select point on map</strong> (p. 50)</td>
</tr>
<tr>
<td><strong>Travel guide</strong> (p. 51)</td>
</tr>
<tr>
<td><strong>Itinerary</strong> (p. 53)</td>
</tr>
<tr>
<td><strong>Route</strong> (p. 56)</td>
</tr>
<tr>
<td><strong>Avoid</strong></td>
</tr>
<tr>
<td><strong>Alternative routes to destination</strong> (p. 56)</td>
</tr>
<tr>
<td><strong>Route overview</strong> (p. 56)</td>
</tr>
<tr>
<td><strong>Detailed route information</strong> (p. 57)</td>
</tr>
<tr>
<td><strong>Map of remaining route</strong> (p. 58)</td>
</tr>
<tr>
<td><strong>Record route</strong> or <strong>Stop recording</strong> (p. 59)</td>
</tr>
<tr>
<td><strong>Traffic information</strong> (p. 74)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Previous destination</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Set single destination</td>
</tr>
<tr>
<td>Add as waypoint</td>
</tr>
<tr>
<td>Information</td>
</tr>
<tr>
<td>Save</td>
</tr>
<tr>
<td>Delete</td>
</tr>
<tr>
<td>Delete all</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Internet search</strong></th>
</tr>
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<tbody>
<tr>
<td>(p. 48)</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Internet search</strong></th>
</tr>
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<tbody>
<tr>
<td>(p. 48)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Zip code</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>State:</td>
</tr>
<tr>
<td>Zip code</td>
</tr>
<tr>
<td>Street:</td>
</tr>
<tr>
<td>Number:</td>
</tr>
<tr>
<td>Junction:</td>
</tr>
<tr>
<td>Set single destination</td>
</tr>
<tr>
<td>Add as waypoint</td>
</tr>
<tr>
<td>Information</td>
</tr>
<tr>
<td>Save</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Latitude and longitude</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Format:</td>
</tr>
<tr>
<td>Set single destination</td>
</tr>
<tr>
<td>Add as waypoint</td>
</tr>
<tr>
<td>Information</td>
</tr>
<tr>
<td>Save</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Select point on map</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Set single destination</td>
</tr>
<tr>
<td>Add as waypoint</td>
</tr>
<tr>
<td>Save</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Travel guide</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Start guidance</td>
</tr>
<tr>
<td>Details</td>
</tr>
<tr>
<td>Photos</td>
</tr>
<tr>
<td>Play audio</td>
</tr>
<tr>
<td>Pause audio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Itinerary</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Start guidance</td>
</tr>
<tr>
<td>Add another waypoint</td>
</tr>
<tr>
<td>Clear itinerary</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Route</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoid</td>
</tr>
<tr>
<td>Reroute</td>
</tr>
<tr>
<td>Longer</td>
</tr>
<tr>
<td>Shorter</td>
</tr>
<tr>
<td>Delete</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Avoid</strong></th>
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<tbody>
<tr>
<td>(p. 56)</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Alternative routes to destination</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 56)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Route overview</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 56)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Detailed route information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 57)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Map of remaining route</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 58)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Record route</strong> or <strong>Stop recording</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 59)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Traffic information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(p. 74)</td>
</tr>
</tbody>
</table>
### Cancel guidance or Resume guidance

### Settings

<table>
<thead>
<tr>
<th>Route options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Route type</td>
<td>(p. 61)</td>
</tr>
<tr>
<td>Reroute on request</td>
<td>(p. 63)</td>
</tr>
<tr>
<td>Route proposals</td>
<td>(p. 64)</td>
</tr>
<tr>
<td>Use carpool lane</td>
<td>(p. 64)</td>
</tr>
<tr>
<td>Use express lane</td>
<td></td>
</tr>
<tr>
<td>Avoid area</td>
<td></td>
</tr>
<tr>
<td>Avoid highways</td>
<td></td>
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<tr>
<td>Avoid toll roads</td>
<td></td>
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<tr>
<td>Avoid tunnels</td>
<td></td>
</tr>
<tr>
<td>Avoid ferries</td>
<td></td>
</tr>
</tbody>
</table>

### Map options

- Show full-screen map
- Map type
- Highway information
- Position information
- Compass
- POI symbols
- Map colors
- Stored location on map

### Guidance options

- Time of arrival format
- Street names in voice guidance
- Turn-by-turn navigation
- Automatic read out of traffic
- Voice guidance
- Use simple voice guidance
- Speed camera warning
- Stored location notification
- Travel POI notification
- Guided tour notification

### System information

- (p. 71)

### FAV key options

- (p. 71)

### Import/export stored locations

- (p. 71)

### Related information

- Menus system (p. 36)
SETTING A DESTINATION
Setting a destination
There are several ways of setting a destination.

- Internet search, (p. 48).
- Zip code, (p. 49).
- Latitude and longitude, (p. 49).
- Select point on map, (p. 50).
- Travel guide, (p. 51).

See also the text wheel (p. 28) for information about entering text.

Search using Home
You can set a destination by specifying "Home" to set a return route to your home, office, etc.

The navigation system can store (p. 47) a location of your choice under the heading "Home," which simplifies a return trip to your home, office, etc.
You can store a location as "Home" each time a location is stored. To do so:

- Select Save location as home + OK.

To activate an itinerary using "Home" as a destination:

- Select Set destination ➔ Home + OK to start guidance.

Related information

- Setting a destination (p. 43)

Search using an address

You can set a destination by specifying an address.

Set destination ➔ Address

It is enough to enter the name of a city, area, town, etc. 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.

Country, area/city and street

The following is the procedure for setting an address as a destination:

1. With the previous illustration’s view on the screen, press OK to activate the pre-selected text field. The text wheel will be displayed.
2. Enter name of the area/city in the City: field using the text wheel or the center console keypad, see (p. 19).
3. Scroll to Street: with TUNE + OK and repeat the procedure.

The following search criteria can be used:

- State:
- City:
- Street:
- Number:
- Junction: (intersection)

1 For information on entering text, see Entering text and making selections (p. 28).
• **Set single destination** – deletes any destinations in the itinerary and starts guidance to the selected destination.

• **Add as waypoint** – mark the selection + OK to add the address as an intermediate destination in the itinerary.

• **Information** – mark the information + OK to display information about the selected destination.

• **Save** – Store the address (p. 47) in the system's memory as a Stored location or as Home.

**More about Information**

Select an address/street + OK to select the following:

• **Map**: displays a map of the location with additional information when available.

• **Call number**: A call will be initiated if a phone number has been provided.

• **Online info.**: Additional information can be downloaded from the Internet.

**Set single destination**

![Set single destination interface]

A single destination and possible intermediate destinations can be added to an itinerary.

**Set single destination**

Set single destination

- Starts guidance to the selected destination.

**Add as waypoint**

Add as waypoint

- Adds an intermediate destination to the itinerary.

**Start guidance**

Start guidance

- Initiates guidance for the current itinerary.

For more information about **Start guidance** (p. 43).

**Related information**

- Setting a destination (p. 43)

---

2 Requires a paired and connected cell phone, see the Sensus Infotainment supplement.

3 Requires an Internet connection, see the Sensus Infotainment supplement.
Search using a Point of Interest (POI)

You can set a destination by specifying a POI.

The map database contains a large number of searchable POIs\(^4\) that can be selected as destinations.

All POI searches are done using the text wheel (p. 28) and selecting from the resulting list. Mark your selections + OK and finish with one of the following:

- Set single destination: adds the POI as a destination.
- Add as waypoint: adds the POI as an intermediate destination.
- Information: Provides information about the POI.
- Save: Stores the POI in the system's memory as a Stored location or as Home.

\(^4\) See the heading "Point of interest (POI) on the map" POI (p. 65).

The procedure is the same as the one described under the heading "Country, area/city and street" in Search using an address (p. 44).

**By name**

By name + OK 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 (p. 44).

**By category**

By category limits the POI search to specific categories (e.g., bank/hotel/museum).

- **Near the car**
  Near the car searches for POIs near the vehicle’s current location.

- **Along the route**
  Along the route searches for POIs along the current itinerary.

- **Near the destination**
  Near the destination searches for POIs near the destination.

- **Around point on map**
  Around point on map searches for POIs by scrolling with the cursor, see (p. 38).

  - The scroll map will be displayed. Move the cursor to the desired position + OK and search for the desired POI.
Search using a stored location

You can set a destination by specifying a stored location.

Set destination ➔ Stored location

This function is a collection of destinations and locations stored under the menu alternative "Save". They can be used to quickly set or change an itinerary (p. 53).

Recorded routes

Stored locations can be found under "Other"

The respective routes, destinations, and locations found under Routes and Other can be changed as follows:

- Set single destination
- Add as waypoint
- Information
- Edit

Related information

- Setting a destination (p. 43)
- Points of Interest (POI) (p. 80)

5 See (p. 59).
08 Setting a destination

- Delete
- Delete all

Related information
- Setting a destination (p. 43)

Search using a previous destination
Select among previously stored destinations.

- Set single destination
- Add as waypoint
- Information
- Save
- Delete
- Delete all

Search using the Internet
You can search for a destination using the Internet.

An Internet connection is required, see the Sensus Infotainment supplement.
Search using a zip code
Select a destination by specifying its zip code.

To search for a zip code:
1. Mark Zip code + OK to display the text wheel.
2. Select numbers by turning TUNE + OK or enter numbers using the center console keypad (p. 28).

- ABC/123+ OK: the text wheel shifts between letters and numbers.
- MORE + OK: special characters are displayed.
- => + OK: the cursor moves to the list at the right of the screen. Scroll to your selection and confirm by pressing OK.
- City: + OK: the cursor will change menus to allow you to change zip code areas.

Related information
- Setting a destination (p. 43)

Search using latitude/longitude
You can specify a destination using Global Positioning System (GPS) coordinates.

Begin by deciding which type of GPS coordinates are to be used by marking Format: + OK. Continue by selecting one of the following + OK:
08 Setting a destination

- **DD°MM'SS'**: location is degrees, minutes and seconds
- **Decimal**: location expressed in decimals

Enter the GPS coordinates as follows:

1. Place the cursor on the number/character field to be changed by turning **TUNE** and pressing **OK**: the window's contrast will change to show that it is "active."
2. Turn **TUNE** to enter the number/character and finish by pressing **OK**: the window is "deactivated."
3. Move the cursor to the next position to be changed and repeat steps 1 + 2.
4. When both of the new coordinates have been entered, turn **TUNE** and mark one of the following alternatives + **OK** to store the new position or to add it to an itinerary:
   - **Set single destination**: adds the coordinates' location as a destination.
   - **Add as waypoint**: adds the coordinates' location as an intermediate destination.
   - **Information**: Provides information about the location.
   - **Save**: Stores the location in the system's memory as a **Stored location** or as **Home**.

---

**Search using a position on the map**

**You can set a destination by specifying a position on the map.**

1. Move the cursor using the center console number keys: [6 MNO] to move to the right, [8 TUV] to move down, etc., see (p. 38).
2. When you have found the desired location, press **OK**.

**The cursor's position shown by name**

Choose one of the following and confirm by pressing **OK**:
- **Set single destination**
- **Add as waypoint**
- **Save**

If **Save** is chosen, the destination will be stored as a symbol/icon on the map if the function **Stored location on map** has been selected. See the information under this heading in the article "Map options" (p. 65).

---

**Related information**
- Setting a destination (p. 43)

---

7 You can opt to show the cursor's position by name or GPS coordinates, see "Information about the desired location" in the article Map options (p. 65).
**Search using Travel guide**

Searching using "Travel guide" 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.

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.

- Start guidance
- Details
- Photos
- Play audio

---

8 Not available in all areas.
9 For additional information, see your owner’s information or the Sensus Infotainment supplement.
SETTING AN ITINERARY
Creating an itinerary

This article shows how you can 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).

Starting guidance

If necessary, scroll to \textit{Start guidance} + \textit{OK} to activate the current itinerary. Guidance will begin.

Route proposals

3 alternative routes

If Route proposals\textsuperscript{1} has been selected, ("3" must be selected), the driver has to select one of the proposed routes before guidance can begin, see (p. 56).

Adding an intermediate destination (waypoint)

If you would like your route to be set up in stages, up to 4 intermediate destinations (waypoints) can be added to your itinerary.

\textsuperscript{1} See (p. 61).
09 Setting an itinerary

Select one of the methods for selecting a destination from the Set destination menu and add up to 4 intermediate destinations.

The first destination selected will be set as your final destination; any others will be set as intermediate destinations (waypoints).

**NOTE**

The most recently added destination always becomes intermediate destination 1. The existing number 1 will become number 2, etc.

The order of the intermediate destinations can be rearranged, see the heading Move in list (p. 54).

**Related information**

- Intermediate destinations (waypoints) in an itinerary (p. 54)
- Setting a destination (p. 43)

**Intermediate destinations (waypoints) in an itinerary**

The order of your intermediate destinations in an itinerary can be changed or they can be replaced.

By marking an intermediate destination and pressing **OK**, the following can be done for each one:

- **Information**: e.g., name and address
- **Delete**
- **Move in list**: change the order of the intermediate destinations in the list
- **Save**: store the intermediate destinations

**Reorder in the list**

To change the order of the intermediate destinations in the list:

1. Scroll to the intermediate destinations to be moved + **OK**: a pop-up menu will be displayed
2. Select **Move in list** + **OK**

3. Turn **TUNE**: the destination will be moved up or down in the list
4. Finish by pressing **OK** to confirm.

**Deleting an itinerary**

Scroll to Clear itinerary + **OK** to delete the current itinerary, including all intermediate destinations.

**Related information**

- Creating an itinerary (p. 53)
- Map of the remaining part of the route (p. 58)
PLANNING A ROUTE
### Avoiding sections of a route

This function enables the driver to avoid the next section of a route.

The **Avoid** feature will only function if there are alternative streets/roads available.

Scroll to **Avoid** if necessary + **OK** to open the following map view, with the next section of your route highlighted.

### Alternative routes and route overview

This article describes how an alternative route can be selected from a list of pre-calculated ones.

The "Route overview" function shows a selected intermediate destination’s name and the distance to it.

#### Alternative routes

Scroll to **Alternative routes to destination** + **OK** to select a different, pre-calculated route to your destination. See also **Route proposals** (p. 61).

### Related information

- Alternative routes and route overview (p. 56)
- Detailed route information (p. 57)
- Map of the remaining part of the route (p. 58)
- Recording a route (p. 59)
Use **Route type** to select the type of route desired, see (p. 61).

**Overview**

**Route ➔ Route overview**

Scroll to **Route overview** + **OK** to show a list of information about the route’s intermediate destinations and the final destination.

**Related information**

- Avoiding sections of a route (p. 56)

**Detailed route information**

The following describes the procedure for displaying a section of a route between two intermediate destinations.

**Detailed section of a route**

Scroll to **Next** or **Previous** + **OK** to display the location of each section of a route on the map, its name and distance.
10 Planning a route

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

Related information
- Avoiding sections of a route (p. 56)

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

Related information
- Avoiding sections of a route (p. 56)

Scroll to Map of remaining route + OK to display a map view showing the remaining part of your route from the vehicle’s current destination.

This view functions in the same way as Scroll mode (p. 38).
Recording a route
You can record and store a route in the navigation system's memory.

The "REC" symbol indicates that a route is being recorded

Route ➔ Record route

The REC* symbol is displayed while recording is underway. Use the menu alternative

Start/Stop route recording to stop recording.

Recorded routes are stored and can be opened under Set destination ➔ Stored location ➔ Routes (p. 47).

Recorded routes can be exported/copied to a USB flash drive ¹ to e.g., copy the route to another vehicle’s navigation system. For additional information, see (p. 71).

¹ Refer to your owner's information or the Sensus Infotainment supplement for information about using USB flash drives.
**Route options**

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

Different types of routes can be selected here. Scroll to your choice and press **OK**.

- **Fast with traffic adaption**: the quickest route to your destination with the fewest number of traffic problems\(^1\).
- **Fast**: The quickest route is prioritized.
- **Short**: the shortest route is prioritized and may also include secondary roads.
- **ECO with traffic adaption**: routes enabling low fuel consumption are prioritized.

**Rerouting**

This function reroutes your trip due to traffic information received and must be accepted (press **OK**) or rejected (press **EXIT**).

- **Reroute on request**: the driver has to accept a proposed new route.
- **Empty box**: The route will be recalculated automatically.

**Route proposals**

The Start guidance command initiates guidance differently depending on whether the driver has selected alternative "1" or "3"\(^2\).

- **Activate with **OK** and exit the menu by pressing **EXIT** or **NAV**.

**Alternative "1"**

The route will be based on the **Route type** selected in the previous section and guidance will begin.

---

\(^1\) Coordinated with information from traffic radio (p. 74).

\(^2\) See (p. 53).
Alternative "3"

The driver has to choose one of the alternative routes before guidance will begin.

NOTE

If you have selected alternative "3" it will take slightly longer before guidance begins because the system has to first calculate 3 suitable alternatives.

Carpool lanes

Settings ➔ Route options ➔ Use carpool lane

Private vehicles are sometimes allowed to use lanes reserved for buses, etc., assuming the vehicle has at least one passenger. If this alternative is activated, lanes of this type will be included when a route is calculated.

- Press OK to activate Use carpool lane. Exit the menu by pressing EXIT or NAV.

Express lanes

Settings ➔ Route options ➔ Use express lane

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.

- Press OK to activate Use express lane. Exit the menu by pressing EXIT or NAV.

Related information

- Map options (p. 65)
- Guidance options (p. 67)
- System information (p. 71)
- The FAV button (p. 71)
- Import/export stored destinations (p. 71)

3 Only available if this information is included in the map database.
Route options – avoiding areas

You can create and store areas to be avoided when a route is calculated, e.g., through certain cities, neighborhoods, sections road, etc.

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.

Create an area to be avoided

An area to be avoided is selected by marking it directly on the map using a "box" (see the following illustration). Several such areas can be created and stored.

To create and store a restricted area:

1. Scroll on the map to move the cursor to the desired area.
2. Press OK to display a red box.
3. Turn TUNE to adjust the size of the box.
4. Press OK when the box covers the desired area. This area will be stored and displayed in the list of such areas.

Activate an area to be avoided

To avoid being guided through an area on the list, it must first be activated. To do so:
11 Settings

1. Scroll to the area to be avoided + OK.
2. Select Activate + OK: the area to be avoided is now activated and the system will not guide you through it.

Deactivate an area to be avoided
To allow guidance through a selected area that was previously set to be avoided, it has to be deactivated. To do so:
1. Scroll to the area in the list + OK.
2. Select Deactivate + OK: the area is deactivated and will no longer be avoided when a route is calculated.

It is also possible to restrict guidance on sections of a road, see (p. 56).

Adapting a route
This feature makes it possible to avoid certain types of traffic situations such as toll roads, ferries, etc.

To avoid a type of road, etc., on your itinerary, scroll to the alternative on the screen and press OK.

The alternatives include4:
- Avoid freeways
- Avoid toll roads
- Avoid tunnels
- Avoid ferries

When you have made your selection(s), exit the menu by pressing EXIT or NAV.

NOTE
- If a route has already been set when one or more of these alternatives are changed, there may be a slight delay in guidance as the system recalculates the route.
- If the system has been set to avoid toll roads, highways, etc., roads of this type will only be used when there are no other alternatives.

Related information
- Route options (p. 61)
- Route options – avoiding areas (p. 63)

4 This list may vary depending on the state/province, area, etc.
Map options
This feature enables you to make settings for displaying the map on the screen.

The alternatives include:
• Full-screen map
• Compass
• Highway information
• Information about your current location
• Points of Interest (POI)
• Map colors

Full-screen map
Select the type of map to be displayed on the screen. Confirm with OK.
• North up: the map will always have north at the top of the screen. The "car" symbol will move in the current direction on the screen.
• Map heading up: the "car" symbol will be in 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 "car" 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.

Map type
Mark this selection + OK to show the map full-screen. No other information (temperature, radio station, etc.) will be displayed on the upper or lower sections of the screen.

Highway information
Show highway information when on highway
11 Settings

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.

Select Highway information + OK to select (activate) the function.

Information about your current location

Activate the desired alternative by pressing OK.

- **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 be displayed as a compass pointer or with letters.

Set the map orientation (**north** or **direction** toward the top of the screen). See also the heading “Compass” above.

Point of interest (POI) symbols

Select the POI symbols to be displayed on the map. Select by pressing **OK**.

- **Default:** POI specified by function.
- **Selected:** Turn **TUNE** + **OK** to select each type of POI to be displayed on the map.
- **None**

See Points of Interest (POI) (p. 80) for examples of POIs.
**Map colors**

Select an alternative and confirm with **OK**.

- **Automatic**: a sensor monitors the ambient lighting conditions and changes map colors automatically.
- **Day**: colors and contrast adapted for daylight conditions.
- **Night**: colors and contrast adapted for dark conditions.

**Guidance options**

This feature enables you to make guidance-related settings.

These settings include:
- arrival time/remaining travel time
- street names in voice guidance
- guidance displayed in the instrument panel
- automatic reading of traffic information
- automatic fadeout
- voice guidance
- speed camera alerts

**Related information**

- Route options (p. 61)

---

**Settings ➔ Map options ➔ Map colors**

**Settings ➔ Map options ➔ Stored location on map**

All stored locations are listed here.

- Mark the ones to be displayed with the cursor + **OK**. Exit the menu by pressing **EXIT** or **NAV**.
Arrival time/remaining travel time

Activate your choice with OK.
- ETA: estimated arrival time
- RTA: estimated remaining travel time

Street names in voice guidance

Scroll to Street names in voice guidance + OK to select/deselect a function where voice guidance will also say the names of streets.

Turn-by-turn navigation

Scroll to Turn-by-turn navigation + OK to select/deselect a function that displays the next turn in your route and the distance to it in the instrument panel.

Automatic read-out

Scroll to Automatic read out of traffic + OK to select/deselect a function where traffic information will be read aloud.

This symbol on the screen indicates that traffic information is available in the current broadcast area. The symbol will be RED or YELLOW:

- RED: the information will be read aloud and the location of the problem will be shown on the map, see also (p. 74)
- YELLOW: the information will not be read aloud but the location of the problem will be shown on the map

5 Certain markets/languages only.
Automatic fadeout

Scroll to Voice guidance + OK to select/deselect a function that provides spoken guidance.

NOTE
If this alternative is not selected, no voice guidance will be provided. Only visual on-screen guidance will be available.

For additional information, see (p. 34).

Simple voice guidance

Voice guidance is normally repeated 3 times prior to each guidance point in your route: once in advance, once immediately prior to a turn and once when the turn should be made. With this function activated, voice guidance will only be provided once.

Speed cameras

An audible and visual signal will be provided to alert the driver that the vehicle is approaching a speed camera.

Settings ➔ Guidance options ➔ Use simple voice guidance

Scroll to Use simple voice guidance + OK and check the box to activate. Exit the menu by pressing EXIT or NAV.
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 www.volvocars.com/navi for up-to-date information.

Stored location notification

An audible signal alerts the driver that the vehicle is approaching a stored location.

1. Scroll to Stored location notification + OK, check the box and open a list of all stored locations.
2. Turn TUNE to select the locations where no signal will be given and deselect them with OK. Exit the menu with EXIT or NAV.

POI notification

An audible signal alerts the driver that the vehicle is approaching a POI that is part of a "Travel guide", see (p. 51).

- Scroll to Travel POI notification + OK, check the box and activate the function. Exit the menu with EXIT or NAV.

NOTE

Functions related to Travel Guide are only available via a connected USB device that contains Travel Guide information, see (p. 51).

Travel guide alert

An audible signal alerts the driver that the vehicle is approaching a "Travel guide", see (p. 51).

- Scroll to Guided tour notification + OK, check the box and activate the function. Exit the menu with EXIT or NAV.

NOTE

Functions related to Travel Guide are only available via a connected USB device that contains Travel Guide information, see (p. 51).

Related information

- Route options (p. 61)
System information
System information shows the current status of the navigation system.

Scroll to Settings ➔ System information + OK to display a brief summary of the navigation system’s current status, such as the transmitter from which it is currently receiving traffic information, the operative map data and its version.

The FAV button
The FAV button can be programmed to quickly start/stop various navigation system functions.

FAV button options:
- No function
- Repeat voice guidance
- Cancel/Resume guidance
- Show/Hide full-screen map
- Show/Hide highway information
- Start/Stop route recording
- Voice guidance On/Off
- Save selected function to FAV key

Scroll to your selection and press OK to activate the function. Exit the menu by pressing EXIT or NAV.

Import/export stored destinations
You can import or export stored destinations, routes or itineraries.

Import/export stored locations
Routes, itineraries or destinations stored in the navigation system’s memory (see Search...
using a stored location (p. 47) can be copied to a USB flash drive.

The map database can also be supplemented with POIs from other sources via a USB flash drive if they are in the "gpx" format.

**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.

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6 For additional information, see your owner’s information or the Sensus Infotainment supplement.
TRAFFIC INFORMATION
Traffic information

The following lists traffic-related symbols and instructions on how to open and access the information that they contain.

General information

The navigation system constantly receives updated traffic information.

This symbol indicates that traffic information is available in the current broadcast area. This symbol will be RED or YELLOW, depending on the type of information received.

- 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

The read function can be switched off, see (p. 67).

This symbol marks the location of a traffic problem. For more information, see the heading "Traffic on map" in the article Traffic information with a specified destination (p. 75).

NOTE

Traffic information is not available in all areas.
The broadcast range of traffic information is constantly being expanded.

Open traffic information

Scroll to Traffic information + OK to display information about traffic problems. The way in which this information is displayed will differ depending on whether or not an itinerary has been set.

Traffic information – with no destination selected

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

Traffic information on the map

Scroll to Traffic on map + OK to search for traffic problems using the scroll function, see the description under the heading "Traffic information on the map" (p. 75).

Related information

- Traffic information – with no destination selected (p. 74)
- Traffic information with a specified destination (p. 75)
- Extent of a traffic problem (p. 77)
All traffic

Traffic information in the broadcast area

Scrolling to a road/street + OK opens the same function as in the article "Traffic information with a specified destination", see (p. 75).

Related information

- Traffic information (p. 74)
- Traffic information with a specified destination (p. 75)
- Extent of a traffic problem (p. 77)

Traffic information with a specified destination

This function displays traffic information (p. 74) on the map using the scroll function (p. 38).

Listen to traffic information

Scroll to Listen to traffic on route + OK to activate the voice function for current traffic information along your route.

Traffic information in the broadcast area

Traffic information is primarily grouped by country (in border areas) followed by road numbers and street names.
12 Traffic information

Scroll to a road/street + OK to view specific traffic information for the selection, see the following illustration:

Specific traffic information
Traffic information for a specific road/street is listed according to how severe the problem is, e.g., a complete stop in traffic will be at the top of the list.

Scroll to Traffic information + OK to view additional information and the location on the map, see the following illustration:

Traffic problems on the map

The map image will be centered around the location of the problem.

Traffic information on the map

Scroll to Traffic on map + OK to search for traffic problems using the scroll function (p. 38).

Traffic information ➔ Traffic on map

Information about a specific problem can be displayed using the scroll function.

1. Scroll the cursor to the traffic incident/symbol that you would like detailed information about; a yellow frame will appear around the symbol.

2. Press OK to display information such as shown in the following example:

Traffic problems on the map

Information about a traffic problem is linked to the respective symbols and the following 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 OK repeatedly to scroll to the other information.

- Return to the map view with EXIT or NAV.

**Direct listed information**

Direct listed traffic problems, e.g., "0.8 mi Stationary traffic" indicates that the information pertains to your current itinerary.

Scroll to a traffic problem + OK to display additional information and the location on the map, see the following illustrations:

**Traffic on map**

- Traffic information (p. 74)
- Traffic information – with no destination selected (p. 74)
- Extent of a traffic problem (p. 77)

**Related information**

**Extent of a traffic problem**

This function shows the extent (scope) of the traffic problem.

**Extent of a traffic problem**

Some traffic problems may affect an extended area.

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

- 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.

**Size of the traffic information area**

The map scale determines the amount of traffic information (p. 74) that can be displayed. The larger the area on the map the greater the number of traffic problems that can be shown.
12 Traffic information

**Related information**
- Traffic information (p. 74)
- Traffic information with a specified destination (p. 75)
- Traffic information – with no destination selected (p. 74)
SYMBOLS ON THE MAP
Points of Interest (POI)
This article describes the procedure for selecting the points of interest to be displayed on the map and their symbols.

- Select/mark POIs by turning TUNE, select/deselect by pressing OK and exit by pressing EXIT.

The number of POIs displayed is limited in order to avoid too much clutter on the map. Zoom in on a specific area to see a greater number of POIs.

**NOTE**
Symbols may be added/removed under Settings ➔ Map options ➔ POI symbols when the system is updated.

The POI symbols include:

- Car dealer/repair
- Gas station
- Car repair
- Parking
- Tourist attraction
- Golf
- Cinema

Selected POIs are shown on the map
### 13 Symbols on the map

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="pharmacy.png" alt="Pharmacy" /></td>
<td>Pharmacy</td>
</tr>
<tr>
<td><img src="cash-dispenser.png" alt="Cash dispenser" /></td>
<td>Cash dispenser</td>
</tr>
<tr>
<td><img src="atm-bank-exchange.png" alt="ATM/Bank exchange" /></td>
<td>ATM/Bank exchange</td>
</tr>
<tr>
<td><img src="post-office.png" alt="Post office" /></td>
<td>Post office</td>
</tr>
<tr>
<td><img src="education-facility.png" alt="Education facility" /></td>
<td>Education facility</td>
</tr>
</tbody>
</table>

**Related information**
- Search using a Point of Interest (POI) (p. 46)
General information/frequently asked questions

The vehicle's location on the map is not correct
The navigation system's accuracy is approx. 65 ft (20 meters).
Accuracy may be reduced slightly when driving on a road that is parallel with another road, winding roads, multi-level roads and long straightaways with no distinct curves.
High mountains, buildings, tunnels, viaducts, multi-level roads, etc., may also affect GPS signal reception, which may also reduce the system's capacity to calculate the vehicle's location accurately.

The system does not always calculate the fastest/shortest route
Route calculation takes factors such as distance, road width, type of road, number of right/left turns, traffic circles, etc., into account to find the theoretically best route. Familiarity with an area may enable you to find a more efficient route to your destination.

The system uses toll roads, highways or ferries even though I have chosen to avoid them
When calculating longer routes, the system may have to choose major roads for technical reasons.

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

After being transported, the vehicle's location on the map is not correct
If the vehicle has been transported (e.g., on a ferry or train) where GPS signals have been blocked, it may take up to 5 minutes before its location will be shown correctly.

The vehicle's location on the map is not correct after the battery has been disconnected
If the vehicle's GPS antenna has not had electrical current, it may take more than 5 minutes for signals to be received and the vehicle's location determined.

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., snow tires have been installed, the system has to "learn" the new tire dimensions.
To do so, make several full left and right turns at low speed in a suitable place.

The map does not correspond to actual road conditions
Due to road changes/additions/rerouting, the map database may not be up-to-date. Consult your Volvo retailer.
See also www.volvocars.com/navi and www.volvocars.com/mapupdate for additional map information.

The map scale changes occasionally
Map information may not be available for certain areas and for this reason, the system will automatically change the map scale.

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.

How can I make a long trip without setting a route to the cities that I plan to drive through? What is the easiest way of setting an itinerary?
Specify a destination directly on the map using the cursor. The system will automatically guide you to the final destination even if you do not drive to the intermediate destinations.
14 Questions & answers

The map information is not up-to-date
Consult your Volvo retailer about a map update.
See also www.volvocars.com/navi or www.volvocars.com/mapupdate.

How can I check which map version I have?
In the menu system, go to Settings ➔ System information ➔ OK to see the map version and the geographic areas covered, see (p. 71).
Maps – content

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

These maps are constantly being updated and the information they contain is steadily being increased.

**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 www.volvocars.com/navi and www.volvocars.com/mapupdate for map and Sensus Navigation-related information. Also, contact your Volvo retailer if you should need maps that cover another geographic area.

Map updates

During updates, new information/map data is transferred to the navigation system and outdated information is deleted.

Map updates are downloaded from the Internet\(^1\) to a USB flash drive\(^2\). The information is then transferred to the vehicle's navigation system using the USB socket in the tunnel console.\(^3\).

**NOTE**

- Instructions for downloading information and updating the navigation system are available on the Internet.
- Contact your Volvo retailer if you have any questions regarding the map update or go to www.volvocars.com/ navi and www.volvocars.com/mapupdate.

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.

To update:

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

**NOTE**

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

Continuing an interrupted update

If the update was not completed when the engine was switched off, the procedure can be restarted where it left off the next time the engine is started. To do so:

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1 See the information at www.volvocars.com/mapupdate
2 The flash drive must have at least 20 Gb of free space.
3 See your owner’s manual or the Sensus Infotainment supplement for information about using the USB socket.
• If the USB flash drive is still in the USB socket, the update will restart automatically.

• If the flash drive is not connected, restart the engine and reconnect the USB flash drive to the USB socket. The update will restart automatically.

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