<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 next street or road
4. Stored location
5. Symbol for Final destination
6. Remaining time to destination
7. Starting point
8. Remaining distance to destination
9. Intermediate destination
10. Speed limit (at the vehicle’s current location (18))
11. Compass
12. Traffic information (not available in all markets)
13. Extent of street/road with traffic problem (not available in all markets)
14. Current road (the vehicle’s current location (18))
15. Symbol for a Point of Interest – POI (Restaurant with Sea food)
16. Final destination
17. Route
18. The vehicle’s current location
19. Completed section of the route
20. Next guidance point
21. Map scale
VOLVO NAVIGATION SYSTEM (VNS) WITH RTT

VNS is a navigation system developed by Volvo that is designed to help guide you to the destination of your choice and provide information along the way.

RTT¹ (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.

NAVTEQ DATABASE End-User License Agreement

See the information on page 78.

¹ Option. Not available in all markets.
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Getting started
Activating the system
With the ignition switched on (see the section "Ignition modes" in the Owner’s Manual):
1. Press the remote key fully into the ignition slot to activate ignition mode I.
2. If the navigation system does not start within a few seconds, press NAV on the center console control panel.

Disclaimer
When the system is started, it displays the following text, which must be confirmed:
- Press the OK button.
For additional information, see page 17.

NOTE
The system can be used even when the engine is not running. To help avoid battery drain, the system should be turned off when it is not in use.

Demo mode (simulated guidance)
The system has a Demonstration mode that can be used to help acquaint you with the navigation system, see page 61.

Navigation system options
The Volvo Navigation System can be operated in several ways:
- With the right side steering wheel keypad
- With the controls in the center console
- With a remote control
- With voice commands
See page 25 for a description of the functions.

The navigation system also contains options for adjusting map, guidance, and system settings. For detailed information, see page 54.

Main commands
The controls in the steering wheel keypad are used in both of the following examples (Guidance to a street address and Guidance to Points of Interest (POI)).
### Getting started

<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>

### Guidance to a street address

<table>
<thead>
<tr>
<th>Screen/menu</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text wheel</td>
<td>Press the thumb wheel to select characters and enter them by pressing OK. A list of alternatives will be displayed successively.</td>
</tr>
<tr>
<td>Turn the thumb wheel</td>
<td>Press TUNE</td>
</tr>
<tr>
<td>Press OK/MENU</td>
<td>Press OK/MENU</td>
</tr>
<tr>
<td>Press EXIT</td>
<td>Press EXIT</td>
</tr>
</tbody>
</table>

**Text wheel**

- Select a destination from the list + OK.
- Press OK to display a menu.

**Navigation menu**

- Scroll to Set destination + OK.
- Scroll to Add to itinerary + OK.
- Scroll to Start guidance + OK.
- Scroll to Point of interest (POI) + OK.
- Scroll to e.g., Near the car + OK.
- Scroll to e.g., All types + OK.
- Scroll to e.g., Airport + OK.
- Scroll to the desired alternatives in the list + OK.
- Scroll to Add to itinerary + OK.

**Map**

- The system will begin guiding you to your destination.
- The system will now calculate the route and distance to the specified destination. You will be provided with guidance and instructions regarding intersections, etc.

If you leave the planned route during the trip, the system will automatically calculate a new route to the destination.
## Getting started

<table>
<thead>
<tr>
<th>Screen/menu</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Itinerary</td>
<td>Scroll to Start guidance + OK.</td>
</tr>
<tr>
<td>Map</td>
<td>The system will begin guiding you to your destination.</td>
</tr>
</tbody>
</table>
GETTING TO KNOW YOUR NAVIGATION SYSTEM
Using this manual
A quick guide is available to help you get started with the basic functions as quickly as possible, see page 10.

The rest of the manual is divided into chapters and sections describing the navigation system’s features and functions in greater detail.

Menu selections/Paths
Menu selections are shown in gray text in the manual, for example Enter street.

Menu paths are written as follows:

Set destination ➔ Address ➔ Street:

or Set destination ➔ Address ➔ Street:

Footnotes
Certain pages of this manual contain information in the form of footnotes at the bottom of the page. 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 differently, depending on special legal requirements.

Contact your Volvo retailer for additional information.

Changes in the manual
The specifications, design features, and illustrations in this manual are not binding.

We reserve the right to make modifications without prior notice.

© Volvo Car Corporation
General information
The Volvo Navigation System uses the WGS84 reference system, which provides the vehicle’s location in terms of longitude and latitude. The VNS system can be used even if a destination has not been specified.

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.

Map mode
When the system is started, it displays the following text, which must be confirmed by pressing the OK/MENU button:
- This system provides route information to help you reach your destination. Due to road conditions, some recommendations may not be accurate. Obey all traffic laws and drive based on your own good judgment. Always concentrate on your driving by keeping your eyes and mind on the road.

When this has been done, a map showing the current area will be displayed with the vehicle shown as a blue triangle.

Settings
The system is delivered with default settings but after these settings have been modified by the user, it will start with the most recently used settings.

The system has a reset function that enables you to return to the default settings, see page 60.

On/Off

On
1. Press the remote key into the ignition slot.
2. The display activates automatically when ignition is in mode I (see the section “Ignition modes” in your Owner’s Manual for additional information).
3. Press the NAV button on the center console control panel if the system does not start automatically.
4. Press OK when the start-up text is displayed (see the previous section “Map mode”).

It may take the system several seconds to determine the vehicle’s location and direction of travel.

Off
The system shuts down automatically when the remote key is removed from the ignition slot.

Once activated, the navigation system cannot be switched off manually and is always active in the background after the start-up sequence. However, if you prefer to not start the system when the ignition is switched on:
- Press EXIT when the start-up text is displayed (see the previous section “Map mode”).
Before you begin

**NOTE**

The system can be used even when the engine is not running. To help avoid battery drain, the system should be turned off when it is not in use.

**Demo (simulated guidance)**

For an overview of how guidance functions, specify a destination.

If the vehicle is at a standstill, guidance can be simulated to the specified destination, see page 61.
Contents of DVDs
New DVDs are issued regularly with updated maps and the most current information. The latest DVDs can be purchased from a Volvo retailer.

NOTE
The map information may not fully cover all areas/countries.
The area covered by the system is constantly being expanded, which is why occasional updates are required.

See also www.volvocars.com/navi for additional information about maps, etc.

Map areas
The areas included in the system’s maps vary according to market/country. The following main maps are available:
- Australia & New Zealand (Pacific)
- China
- Europe
- Hong Kong
- Japan
- North America
- Russia
- South America
- South Africa
- Southeast Asia
- The Middle East
- Turkey

If it is necessary to change the system’s map information, contact a Volvo retailer for instructions.

Map updates
The information on a new DVD must be transferred to the vehicle’s navigation system, which is done using the infotainment system’s media player. To update the map information:

1. Start the engine.
2. Insert the DVD in the media player. If the update is on more than one DVD, insert the discs in numbered order.
3. Please enter license code: will be displayed. Enter the license code 1 with the number keys on the center console, see page 25.
4. The display will show the contents of the update and the approximate time that it will take.
5. Follow the instructions on the screen.

NOTE
An update may contain new navigation system features and functions that are not described in this manual.

Interrupted updates
If an update is in progress when the ignition is switched off, the process will continue from where it was interrupted the next time the ignition is switched on.

NOTE
The navigation system cannot be used while an update is in progress.

DVD care
- When changing discs, make sure that they are kept free of oil, grease and other impurities.
- The discs must not be exposed to moisture.
- The discs must be kept in their packaging when not in use.
- Avoid storing discs in excessive heat, direct sunlight, or in a dusty environment.

1 Contact a Volvo retailer for information about this code.
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.
02 Getting to know your navigation system

DVDs and the screen
The above illustration is schematic; certain details may vary, depending on the car model and market.
02 Getting to know your navigation system

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

2 Voice control
A number of navigation system commands can be voice controlled. The microphone is near the driver’s sun visor (2a) and the voice control button is located on the steering wheel keypad (2b). For additional information, see page 28.

3 Main unit
The main unit is located in and behind the center console and includes the following functions:
- Determining the vehicle’s location.
- Calculating a route to the selected destination.
- Voice guidance.
- Processing traffic information.
The GPS and TMC receivers are integrated into the main unit.

Vehicle location
The navigation system uses signals from the Global Positioning System, the vehicle’s speedometer and a gyroscopic sensor to calculate the vehicle’s current location and direction. This also helps the system calculate direction and location if the GPS signal is temporarily interrupted, such as when driving through a tunnel.

Traffic information (TMC)*
The Traffic Message Channel (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/countries. The area covered by the system is being steadily expanded, which makes occasional updates necessary.

See page 19 for information about updating maps and system software.

4 Screen
The screen displays the maps and provides detailed information about routes, distances, etc.
For information about caring for the screen, see page 20.

5 Center console controls
The number keys in the center console can be used together with the OK/MENU, TUNE and EXIT buttons to navigate in menus, confirm selections or to go back in a menu, see page 25.

6 Volume control and IR transceiver
Use the vehicle’s audio system volume control during voice guidance to raise or lower the volume. See also page 35. The volume can also be adjusted in the MY CAR menu.
Point the remote control toward the center console, where the Infrared (IR) transceiver is located.

* Option/accessory, for more information, see Introduction.
System overview

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.

For additional information, see page 25.

8 Speakers
Sound from the navigation system comes from the infotainment system’s front speakers.
Getting to know your navigation system

About Navigation system controls
The navigation system can be operated with the controls in the center console, the steering wheel keypad or with a remote control (certain models only). The buttons in all cases function similarly but differ in appearance and the way in which they are operated. There may also be differences from market to market.

The system can also be operated using voice commands.

Center console controls

1 **NAV**: activates the navigation system on the screen. Press to toggle between on/off and to also display e.g., climate system functions on the upper/lower sections of the screen.
2 **Number keys**: used to enter address and name information, and for map scrolling. See also pages 31 and 36.
3 Press **OK/MENU** to confirm or activate a selection. The button will be described in the manual as **OK** or **"OK."**
4 Turn **TUNE** to navigate through the menus.
5 Press **EXIT** to go back in the menu system or to cancel a selection.

Steering wheel keypad

1 Turn the thumb wheel to go up or down in a list of menu alternatives.
2 Press the thumb wheel to confirm or activate a selection.
3 Press **EXIT** to go back in the menu system or to cancel a selection.
Remote control\(^1\)

The remote control can be used to control various functions in the vehicle. The functions described in this section pertain to the navigation system.

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

Buttons on the remote control

1. **NAV**: press to activate VNS on the center console screen. Press again to show/hide climate system information on the upper/lower sections of the screen.

2. **EXIT**: go back one step in a menu, cancel a function or delete entered characters.

3. **OK/MENU**: confirm a selection. This button is described in the manual as the "OK button" or "+ OK."

4. **Arrow keys**: use to move the cursor among menu selections.

5. **Number key pad**: use to e.g., enter a name/address or to scroll on a map.

NOTE

The batteries' normal service life ranges from 1-4 years, depending on how often the remote is used. If the remote is not working properly, try replacing the four 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.

\(^1\) Available in certain models only.
Voice control
See the section "Voice control" beginning on page 28.

Additional information
In certain cases, more information may be available than is currently displayed on the screen. In this case, the line of text will end with the # sign. Press the INFO button to display all of the available information.
Introduction
The navigation system’s voice control feature enables you to voice-activate certain system functions.

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

Additional information about using voice commands can also be found in your Owner’s Manual, in the Infotainment chapter’s "Cell phone voice control" section.

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 Bluetooth® hands-free system and system prompts are provided through the infotainment system’s front speakers.

Since the microphone is positioned directly 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) to activate the system and initiate a command dialogue.

While using the voice control system, keep the following points in mind:
- When giving commands, speak at your usual speed and in a normal tone of voice after the tone
- 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

See the “Tutorial” section on page 29 for additional information about using voice commands to control the navigation system.

NOTE
If you are uncertain of the commands that you can use, saying "help" 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:
- Saying "cancel"
- Not speaking
- Pressing and holding the voice control button for several seconds
- Pressing EXIT
- Pressing any of the other mode buttons on the center console: NAV, RADIO, MEDIA, MY CAR or CAM*.

Using voice commands
1. To initiate a command, press the voice control button briefly. Commonly used commands will be shown in the display.
2. Say, for example, "Navigation" clearly and in a normal tone of voice.

* Option/accessory, for more information, see Introduction.
3. The text on the screen will change to "Repeat instruction/Navigation go to address/Itinerary." Say "Itinerary."

4. Continue as prompted.

When a dialogue has been initiated, grayed-out texts or texts in parentheses are not part of the spoken command.

**NOTE**
The system's menus and alternatives cannot always be selected, for a number of reasons.

- If a menu or alternative is **selectable**, it will be displayed in clear white text.
- Alternatives that are **Not selectable** are displayed in gray text (grayed out).

**Commands can be given in several ways**
For example, the command "Navigation go to address" can be spoken as:

- "Navigation > Go to... > Address." Begin by saying "Navigation," wait for a system response in the form of on-screen alternatives. Continue by saying "Go to..." and finish by saying "Address."

or

- give the entire command at one time: "Navigation go to 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 a system prompt, speak after the tone at the end of the question.
- To cancel a voice control dialogue, press and hold the voice control button for several seconds.
- Saying "Help" after the tone will prompt the system to provide a number of commands that can be used in a specific situation.
- A command dialogue with the system can be speeded up by interrupting a system prompt by pressing the voice control button briefly. Wait for the tone and begin to speak.
- If the driver is in a demanding driving situation, it is not necessary to respond to a system prompt immediately.
- The system will give a prompt 3 times. If the driver does not respond, the command dialogue will be cancelled.
- Avoid speaking during a system prompt to avoid missing information from the system.

**Examples**
Here are a few of the most common commands:

- Navigation go to address
- Navigation go to POI
- Navigation delete next waypoint
- Navigation cancel guidance.

**NOTE**
A complete list of short cut commands can be found by pressing the **MY CAR** button on the center console and turning **TUNE** to scroll to **Settings ➔ Voice settings ➔ Navigation commands.**

**Tutorial and settings**
The menus in **MY CAR** contain a tutorial to help the driver become familiar with the voice control system. See your Owner’s Manual for a more detailed description of the **MY CAR** menus.

**Tutorial**
Voice tutorial gives the driver step-by-step instructions about how to use the voice control system.

The tutorial feature can be started in two ways:
Voice control

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

• By pressing the voice control button and saying "Voice tutorial."
• By pressing MY CAR and going to Settings ➔ Voice settings ➔ Voice tutorial. Press OK to begin the tutorial lesson.

Voice training
The Voice training feature enables the voice control system to become familiar with your voice and pronunciation, and allows you to set up user profiles. Two user profiles can be created.

• To start the voice training procedure, press MY CAR and go to Settings ➔ Voice settings ➔ Voice training. Select User 1 or User 2 and press OK to begin.

NOTE
The menu selection Default setting can only be changed to User 1 after a Voice training session has been completed.

Other voice control settings found in MY CAR
• **Voice user setting**: Two user profiles can be set by pressing MY CAR and going to Settings ➔ Voice settings ➔ Voice user setting. Select User 1 or User 2.
• **Voice output volume**: Press MY CAR and go to Settings ➔ Voice settings ➔ Voice output volume and select the desired level.

The system's voice volume can also be changed by turning TUNE during a system prompt.

Languages
The voice control system is constantly being developed and at the time of printing, the following languages were available:

- Dutch
- English (UK)
- English (US)
- French (CAN)
- French (FRA)
- German
- Italian
- Spanish (EU)
- Spanish (US)
- Swedish

NOTE
Voice control for the navigation system is only available in the languages listed.

To change languages, go to Settings ➔ System options ➔ Language.

The available languages have this icon in the list.

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

For example, assume that the profile User 1 has been stored by a French-speaking driver and the language set to Canadian French. If the driver then changes the system language to English, the profile User 1 can no longer be selected because the system will now only understand English and expect English to be spoken. The alternative Default setting will be active instead.

To improve the system's capability to understand the driver's English pronunciation, carry out voice training and store the results in the profile User 2 with the language set to English (which will make both languages available) or change the language profile for User 1 to English.
02 Getting to know your navigation system

On-screen keyboard

Entering text and making selections

Screen view showing the free-text field

The navigation system uses a text wheel for entering various types of information.

Activating a selection

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 control panel, press the thumb wheel/OK to display the function/menu’s next level.

Entering characters

The text wheel

1. Mark (highlight) a text field.
2. Press OK to display the text wheel.
3. Select a character with the thumb wheel/TUNE and enter it by pressing the thumb wheel/OK.

Numeric keyboard

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

For example, press 9¹ 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 grayed-out characters cannot be selected in the current context:

- Select More + OK to access the text wheel for special characters.
- 123 + OK: numbers are displayed in the wheel.
- => + OK: the cursor moves to the list at the right of the screen. Selections can be made here by pressing OK.
- Last 5 + OK: lists the five most recent searches. Mark one of them and press OK.

List of alternatives

A list matching the characters entered

¹ The characters for each respective key may vary, depending on the language selected and the market.
02 Getting to know your navigation system

On-screen keyboard

The number 5 in the upper right corner of the screen indicates that there are five alternatives containing the characters entered (BEZ).

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.
| On-screen keyboard |
Maps, types of roads and the compass

Map views

The above illustration is schematic; certain details may vary, depending on the car model and market.
02 Getting to know your navigation system

Maps, types of roads and the compass

Map views of the current location
The way in which the map is displayed depends on the vehicle's location and the settings that have been made in the system, such as map scale, geographic location, the symbols that have been selected for display, etc.

An explanation of the text, signs, and symbols that may be displayed on the screen can be found on the inside of the front cover of this manual.

The name of the current route can be viewed at the bottom of the screen without setting a destination.

1 Along a highway. The screen shows points of interest along the highway.
2 Detailed intersection information. The screen shows the direction in which you should turn at the next intersection. (Alternative lanes are only displayed for major roads.) Visual information is always accompanied by voice guidance.
3 Two maps. The screen shows the same map, but with two different scales. The map(s) can also be displayed in 2D or 3D, see page 56.
4 Map scroll mode, see page 36.

Voice guidance
Once a destination has been entered and the vehicle is approaching an intersection or an exit, a voice will provide guidance about distance and type of action to be taken. A detailed map of the intersection is also displayed. The voice guidance is repeated as the vehicles approaches the intersection.

Adjust the volume with the audio system's volume control (this must be done while guidance is being given).

To repeat guidance
• Press OK twice.

See also Settings ➔ Guidance options ➔ Voice guidance, see page 58.

NOTE
In certain cases (e.g., if a call is in progress on a Bluetooth®-connected cell phone), voice guidance will be replaced by a chime.

To select a male or female voice and a language
• Go into the MY CAR menu system (by pressing this button on the center console control panel). The volume for voice guidance can also be adjusted here. See your Owner’s Manual for additional information.

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

Go to Settings ➔ Map options ➔ Compass to hide/show the compass. See also page 57 for more information.

Unverified roads
A small number of roads in the system may be unverified. This means that information on signs, one-way streets, left turns, etc., may not be accurate.

An itinerary containing unverified roads will be displayed in grey on the map.

The system’s default setting is to avoid unverified roads, and for this reason, no itineraries are planned on them. These settings can be changed under Settings ➔ Route options ➔ Customize route, see page 55.

The system provides information when an unverified road is added to an itinerary and when the vehicle begins to travel on one of these roads.
The menu system
The various sections of this manual present all of the navigation system’s menus and alternatives.

NOTE
The system’s menus and alternatives cannot always be selected, for a number of reasons.
- If a menu or alternative is selectable, it will be displayed in clear white text.
- Alternatives that are Not selectable are displayed in gray text (grayed out).

Main menu
The main menu is at the top of the menu structure and is the first menu displayed after the introductory text and the map.

Display the main menu from the map view
- Press OK.

Return to the main menu from a sub-menu
- Press NAV followed by OK.
  or
- Press EXIT repeatedly until the main menu is displayed.

Returning to the main menu
It is always possible to return to the main menu by pressing EXIT repeatedly.

Scroll menu
The Scroll menu makes it possible to move the crosshairs across the map using the number keys in the center console.

To activate the Scroll menu when the map is displayed
- Press one of the number keys (0–9).

To scroll
- Press one of the following number keys 1–2–3–4–6–7–8–9: an arrow indicating the scrolling direction will be displayed in the margins combined with the number key to be used to scroll in the desired direction.

To zoom in/out
- Turn TUNE.

To exit the Scroll menu
- Press EXIT.
The crosshairs
Pressing OK will display a menu for the point on the map that the crosshairs are currently pointing to. This menu contains the following alternatives:

- **Add to itinerary**: adds the marked position to the itinerary.
- **POIs nearby**: makes it possible to search for/see any points of interest that may be around the marked position.
- **Read traffic message**: makes it possible to search for/see any current traffic messages\(^1\) around the marked position.
- **Information**: displays any information that may be available about the marked position.
- **Store**: makes it possible to store the marked position in the system’s memory and opens the menu Set destination ➔ Stored location ➔ Edit, see page 47.

Pause guidance

Move the cursor to Pause guidance and press OK to temporarily stop all types of guidance and Resume guidance will be displayed. However, the system’s “car” symbol will continue to show the vehicle’s position on the map.

**To resume guidance**

- Mark Resume guidance and press OK.

\(^1\) This feature may not be available in all areas/states/markets
## Menu selections

Three levels of the menu structure are shown here. A number of the third level menus also have sub-menus, which are described in detail in their respective sections in this manual.

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</tr>
<tr>
<td>Information</td>
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### Point of interest (POI)

- By name
- Near the car
- Along the route
- Around point on map
- Along the street
- Along the highway
- MyPOI near the car
- MyPOI around point on map

### Previous destination

- Add to itinerary
- Information
- Store
- Delete
- Delete all

### Return trip

- Start guidance
- Add to itinerary
- Edit itinerary

### Stored location

- Add to itinerary
- Information
- Edit
- Sort by
- Delete

### Previous destination

- Add to itinerary
- Information
- Store
- Delete
- Delete all

### Return trip

- Start guidance
- Add to itinerary
- Edit itinerary

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PLANNING YOUR TRIP
03 Planning your trip

Setting a destination

Address

There are several different ways of programming a destination.

It is enough to only enter the name of a town, village, etc. to be guided to the center of the specified town/villages.

If you know the destination's latitude and longitude, this information can also be used.

See page 31 for information about entering text/numbers in the system’s various text fields.

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.

City or street

Searching for a destination:

1. With the previous illustration's view on the screen, press OK to activate the preselected text field.
2. Enter a name in the Street: field using the text wheel and then select City:.
3. Or select City: + OK and begin entering the name.

The following search criteria can be used:

- Area: (country)
- City:
- Zip code: a zip code can also be used for a search under City:
- Street:
- Number:
- Junction: (intersection) select an intersection as a destination.
- Add to itinerary: mark the selection + OK to add the address to the itinerary.
- Information: mark the information + OK to display information about the selected destination.

NOTE

If the number entered does not exist for a street address, the system will provide information to this effect.
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**: call the location if a phone number is given.
- **Related POI**: lists points of interest related to the selected location.
- **Parking nearby**: lists parking areas in the vicinity along with their distance from the destination.

**Points of interest (POI)**

The system contains a large number of POIs that can be searched for and set as destinations. The list of POIs can be shortened by specifying the type(s) of POIs to be included in the search:

- **Select Type**: and specify the types of POIs to be included in the search.

To select the POIs to be permanently displayed on the map, go to the menu **Settings ➔ POI on map** – see page 57.

All searches are performed as described in the previous section (City or street):

1. Specify an Area:/City:/Type:/Name:.
2. Then select Add to itinerary or Information + OK.

**By name**

In addition to searching for a POI by general category (e.g., restaurants), the POI’s name can be used. The procedure is the same as when searching by address, see page 44.

When searching for a Name: such as "Rick’s Restaurant" all names matching the combination of letters will be shown as the letters in the name are entered. The list of names will become more specific as more letters are entered.

**NOTE**

There are sub-categories of restaurants to simplify the search.

**Near the car**

This performs a search of the area around the vehicle’s current position.
03 Planning your trip

Setting a destination

Along the route
This searches for POIs along a route in the itinerary.

Around point on map
This search is performed by scrolling the crosshairs on the map, see page 36.
- The scroll map will be displayed. Move the crosshairs to the desired position and press **OK**.

Along the street
A search will be made on a specific street/road.

Along the highway
This search lists the points of interest that are easy to reach from the highway, such as service stations along the road or near an exit.

My POI near the car
This function makes it possible to search for POIs in the area around the vehicle’s current location that the user has added to the My POI list.¹

My POI around point on map

¹ For information about adding POIs (My POI) to the map database, see page 59.
This function initiates a search for POIs that the user has added to the My POI list\(^1\) near the cursor’s position on the map.

The search is carried out with the scroll function’s crosshairs, see page 36.

- The scroll map is displayed. Place the crosshairs on the desired My POI + OK.

### Stored locations

This opens the selected stored location and makes it possible to change/update the following:

- **Name**: enter the name of the location of your choice
- **Icon**: select a symbol to represent the location on the map
- **Address**: enter an address
- **Phone**: enter a phone number
- **Edit voice tag**: record a voice tag. Follow the on-screen instructions.
- **Show name on map**: select whether to show or hide the location’s name on the map.
- **Store**: save the changes by pressing OK.

1. Use the scroll function (see page 36) to select the location to be saved.
2. Press OK to open the crosshairs’ menu.
3. Select Store location + OK. The location is now saved and will be added to the Stored location list.

Select a stored location on the list + OK and choose one of the following alternatives:

#### Add to itinerary

This alternative opens the same window as for Set destination → Address → Add to itinerary, see page 50.

#### Information

This alternative opens the same window as for Set destination → Address → Add to itinerary → Information, see page 45.

---

1 For information about adding POIs (My POI) to the map database, see page 59.
**Setting a destination**

**Sort by**
Select to sort the entries in the list by:
- Name
- Icon
- Distance
- Chronological

**Delete**
- Delete a stored location.

**Previous destination**
Existing destinations are stored here. Select one of them and then do one of the following:
- Add to itinerary
- Information
- Store: see the following illustration for more information.
- Delete

**Delete all.**

**Searching for a location on the map**
This displays a map with the current location marked. See also "Scroll menu" on page 36.
- Turn TUNE to change the map scale.
1. Move the crosshairs using the number keys on the center console ((6 MNO) to move right, (8 TUV) to move down, etc).
2. When you have moved to the desired location, press OK.

**Return trip**
This alternative enables you to return to the itinerary's starting point and can be selected at any time during an itinerary.
Select among:
- Start guidance
- Add to itinerary
- Edit itinerary: select between Clear itinerary and Route options.
Searching by latitude/longitude

Set destination ➔ Latitude & longitude

Select a destination using its GPS coordinates:

1. Highlight the number to be changed and press OK to "activate" the character’s window.
2. Enter a number using the center console number keys (or turn TUNE) and finish by pressing OK. The previous character’s window will no longer be "active".
3. Highlight the next number to be changed and repeat the procedure.
4. The two right-most character windows are for entering the direction. Use the number keys or turn TUNE. N = 6, S = 7, W = 9 and E = 3.
5. When both coordinates have been entered, select Add to itinerary + OK to add the location to the itinerary.

Add to itinerary
Add the selected coordinates for the location on the map to the itinerary.

Information
This displays any available information about the location.

Zip code (post code)

Set destination ➔ Zip code

1. Select Zip code: + OK to display the text wheel.
2. Select characters with TUNE and enter them by pressing OK (or use the center console number keys).

NOTE
Zip codes/post codes may be presented differently, depending on the country/area.
03 Planning your trip

Itinerary

Menu overview

The system can handle one Itinerary at a time with a maximum of 8 intermediate destinations. The first destination entered becomes the final destination and any others are treated as intermediate destinations.

NOTE
The menu selection Itinerary becomes accessible after a destination has been selected.

Route details

The most recently added intermediate destination always becomes Intermediate destination 1. Existing ones will be raised one step (i.e., existing intermediate destination 1 becomes intermediate destination 2 and so on).

If you would like to reorder these intermediate destinations in the itinerary, go to Route details ➔ Itinerary, Select an intermediate destination and ➔ Move in list.

Setting an itinerary

Up to 8 intermediate destination can be set.

Start guidance
Move the cursor to Start guidance and press OK to activate the current itinerary.

The result with "Itinerary 3" selected
If the setting to show 3 alternative itineraries is selected, one of them can be chosen, see the menu Settings ➔ Route options ➔ Route proposals on page 55.

Add to itinerary
Add an intermediate destination (uses the same menu as "Set destination.") See also page 44.

Editing an itinerary
The alternatives are:

Set up an itinerary with several stops along the way to avoid adding intermediate destinations during your trip.
03 Planning your trip

Itinerary

- Clear itinerary: erase the current itinerary.
- Route options: opens a shortcut to Settings ➔ Route options, see page 54.

Intermediate destinations in an itinerary

Each intermediate destination in the itinerary can be updated by marking it and pressing OK.

- Information: complete name/address/phone number (where applicable), and longitude and latitude. If a phone number is displayed, a call can be made through a Bluetooth®-enabled cell phone. See the section "Bluetooth® hands-free connection" in your Owners’s Manual for additional information. Any POIs or parking areas near the destination or will be shown.
- Delete: remove the intermediate destination from the itinerary.
- Move in list: change the order in which the intermediate destinations appear in the itinerary.
- Adjust on map: uses crosshairs on the map to mark a position. The crosshairs can be scrolled (moved) to another position, which can be selected by pressing OK. See page 36 for more information on the scroll function.
- Store: opens the menu Set destination ➔ Stored location ➔ Edit, see page 47.

Avoiding areas

This feature makes it possible to avoid certain parts of the route (due to traffic jams, construction, etc.) The various distances shown on the screen are calculated from the vehicle’s current position. The system will then select another route.

- Mark a selection and press OK.

Next destination

This shows the location of the next intermediate destination on the map with its name, address, estimated time of arrival and the remaining distance to this destination. It also offers the following alternatives:
03 Planning your trip

Itinerary

- **Delete**: remove the current intermediate destination and show the next one.
- **Map**: show a position on the map with the Scroll menu, see page 36.
- **>>**: go to the next intermediate destination in the itinerary (at the end of the list, this will loop back to the beginning).
- **Call**: call the destination (where applicable).

**Route instructions**

This lists the points along the route where instructions will be provided.

**Map of the entire route**

This displays the entire route scaled down so that it fits on the map.

**Map of the remaining route**

This is similar to the view showing the entire route but only shows the remaining part of the route to the destination from the vehicle’s current position.

Otherwise, the functions are the same as for the Scroll menu, see page 36.
Where am I?

This feature displays a map with the vehicle’s current location and information such as the location’s name and coordinates.
03 Planning your trip

Settings

Traffic information

Several selections can be made here for displaying traffic messages.

- **All**: information about all reported traffic disruptions will be displayed.
- **Major**: this will display information about e.g., closed roads due to accidents or other serious problems.
- **None**: No traffic messages will be displayed.

### NOTE
This setting affects the way that the system calculates a route.

Route type

The following types of routes can be selected:

- **Fast**: the system will select major roads for the fastest permitted driving
- **Short**: the system will select the most direct route to the destination
- **Easy**: the system will prioritize roads that do not entail difficult driving situations or numerous intersections

Traffic messages

Additional settings that can be made for Traffic information, see also page 66.

Route options

Traffic messages

Traffic message

Settings ➔ Route options
Route proposal

When the Start guidance command has been given, two alternatives will be presented:

- Select 1 to let the navigation system choose the most suitable type of route
- Select 3 and the system will present up to 3 route proposals (if more than one possibility is available) to choose from

See page 50 for more information.

Route options

- Avoid highways
- Avoid toll roads
- Avoid ferries
- Avoid unverified roads
- Avoid borders
- Avoid time-restricted roads
- Avoid season-restricted roads

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.

Route learning

An itinerary must be set. If the driver has activated an itinerary and then takes another route to the final destination than the one proposed by the system, the system will memorize the roads that the driver has chosen.

If the same itinerary is selected two more times and the driver uses "his/her own route" again, the system will show the driver's route.

If this alternative is marked and the same route is driven three times, this new route will be stored and replace the original itinerary.

Reset route learning

This deletes the "learned" route.

1 These options vary, depending on the area/market/state.
03 Planning your trip

Settings

Map options

• Automatic: a light sensor detects if it is day or night.
• Day (see the previous illustration)
• Night

Single map settings

• Map orientation: select Heading or North.

North: the map will always have north at the top of the screen. The "car" symbol will move in the current direction on the screen.

Heading: 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.

• Map view: select 2D or 3D.  
  2D: the "car" symbol and map will always be viewed from above.
  3D: the "car" symbol and map will be viewed at an angle from above or from the side.

Show dual map mode

The map can be displayed over the entire screen or two split-screen maps can be displayed at the same time.

Select split-screen by marking Show dual map mode and pressing OK, followed by EXIT.

Map colors

Choose between:

• Automatic: a light sensor detects if it is day or night.
• Day (see the previous illustration)
• Night

Single map settings

• Map orientation: select Heading or North.

North: the map will always have north at the top of the screen. The "car" symbol will move in the current direction on the screen.

Heading: 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.

• Map view: select 2D or 3D.
  2D: the "car" symbol and map will always be viewed from above.
  3D: the "car" symbol and map will be viewed at an angle from above or from the side.

Show dual map mode

The map can be displayed over the entire screen or two split-screen maps can be displayed at the same time.

Select split-screen by marking Show dual map mode and pressing OK, followed by EXIT.

2 Only if Map orientation > Heading is selected.
03 Planning your trip

Settings

Left map settings
- Map orientation: select Heading or North.
- Map view: select 2D or 3D.

Right map settings
This is the same as for left map settings.

Map scale in dual map mode
To view each map in different scales:
1. From map view, turn TUNE clockwise or counter-clockwise to highlight the map on the right or left side of the screen.
2. Press OK to "activate" the highlighted side of the screen.
3. Turn TUNE to adjust the map scale.
4. Press OK again to confirm the new map scale and to "deactivate" that side of the screen.

Points of interest (POIs) on the map
Mark the alternatives for displaying points of interest on the map:
- All: show all points of interest.
- None: no points of interest will be displayed.
- Selected: a menu with points of interest will be displayed. Mark the ones that you would like to have displayed on the map.

For a list of POIs, see page 72.

Compass
Choose how the compass will be shown on the map:
- Graphic
- Text: the compass heading (upward on the screen) will be indicated by a letter, for example N for "North."
- None.

See page 35 for more information about the compass.

Show the current road name
Mark this alternative to display the name of the street/road that you are currently driving on at the bottom of the screen.

Show the current speed limit
Mark this alternative to see the current speed limit in the upper right corner of the screen.

Show information fields
Mark this alternative to display any current traffic information at the top and bottom of the screen.

This can also be changed temporarily by pressing the NAV button on the center console.

Guidance options
03 Planning your trip

Settings

Voice guidance
Mark Voice guidance if you would like spoken instructions. See page 28 for additional information.

Voice volume
This displays a volume control on the screen for setting the level for voice guidance.
- Adjust by turning TUNE and pressing OK. See page 23 for more information.

Street names in voice guidance
In addition to voice guidance information about distance and direction, this function can also say the name of the street/road. To activate:
- Mark Street names in voice guidance.

Time information
Select the time-related information to be displayed:
- ETA (Estimated Time of Arrival)
- RTA (Remaining Time until Arrival)

Always show intersection map
The navigation system can work in the background while other information (radio, phone, etc.) is displayed.

Select Show DIM in Other Source + OK to select the function that displays detailed map information on half of the screen while other sources/programs are being used, see page 35.

Alert for My POI
Select My POI Alert + OK to activate a preset audible alert when the vehicle approaches a MyPOI location, see page 59.

System information

GPS information

The screen shows:
- Number of received satellites:
- Received position
- Map-matched position
- Altitude:
- The geographic name of the current position.
Map version

The screen will display:
- Software version:
- Map version:
- Map market:

Map loading progress
This indicates the progress of a map/system update. See page 19 for more information.

Import/Edit MyPOI

This function enables the user to add points of interest – MyPOI – to the map database, such as all of the stores in the "Department Store" chain.

1. Go to the "Department Store" chain's website and download the necessary POI files. Store them on a USB flash drive.
2. Connect the flash drive to the vehicle's USB socket (under the center armrest/covers) and search for Settings ➔ Import/Edit MyPOI in the menu system.
3. Select Import + OK and follow the instructions on the screen.

When the files have been imported, certain settings can be made for the new MyPOI group:
- The name can be changed
- The MyPOI map icon can be changed (if an icon was included with the imported POI file, it will automatically be preselected)
- One of four different audible alerts can be selected (to alert the driver when the vehicle approaches the MyPOI icon on the map, see page 58)
- Choose to display/hide MyPOI icons on the map.

When all of the choices have been made, select Store + OK to complete the procedure or to import/edit a new POI group.

100 MyPOI groups (or 50,000 MyPOI locations in the GPX 1.1 format) can be added to the map database.

NOTE
In addition to the various POI files that can be downloaded, files of this type are also available from Volvo. Contact a Volvo retailer for information.
03 Planning your trip

Settings

Reset navigation settings
This function returns all settings to the original (factory) system settings.
The menu alternative Settings ➔ Reset navigation settings ➔ OK displays: Reset all navigation settings?, Continue with OK Cancel with EXIT.

Delete all user data
The menu alternative Settings ➔ Delete all user data ➔ OK displays: Do you want to delete all navigation user data?, Continue with OK Cancel with EXIT
Pressing OK will delete the following information:
- all stored locations
- the Last 5 locations
- previous destinations
- route learning information
- changes to factory settings
Start the demo (system simulation)

When the vehicle is at a standstill, this function offers simulated guidance to the currently set destination.

To interrupt the simulation:

- The previous memo selection (Start demo) changes to Stop demo. Mark it and press OK.

**NOTE**

The demonstration function can only be used if a destination has been selected.
**Introduction**

**Display and reception**
Broadcast traffic information is always received and presented, even if no destination is specified.

The way in which traffic information is presented can be set and changed in **Settings ➔ Traffic information**, see page 54.

The way in which traffic information is presented is also affected by the way in which it is broadcast.

---

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

The transmission range for traffic information is being increased continuously.

---

**Traffic symbols on the map**

*Symbol for traffic information or problems*
If there is at least one traffic message along the route, a TMC\(^1\) symbol will be displayed in the upper left corner of the map.

Use the **scroll** function (see page 36) to scroll to the traffic problem to find its location and extent.

---

**NOTE**
When the system is started it can take up to approx. 15 minutes before all traffic information for the area is loaded.

---

**Location on the map**
Traffic problems are indicated by arrows, lines and boxes:

**Marker colors**
The color of the arrows, lines and boxes indicates the extent (severity) of the traffic disruption:

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Road closed</td>
</tr>
<tr>
<td>Red</td>
<td>Traffic jam</td>
</tr>
<tr>
<td>Orange</td>
<td>Slow-moving traffic</td>
</tr>
<tr>
<td>Yellow</td>
<td>General information</td>
</tr>
</tbody>
</table>

---

**Type of traffic disruption**
The following table shows examples of the symbols\(^2\) that may be used on the map to indicate different types of traffic disruptions:

---

\(^{1}\) Traffic Message Channel

\(^{2}\) These symbols may vary, depending on the state/market.
<table>
<thead>
<tr>
<th>Traffic messages</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accident</td>
<td>A sign with an exclamation mark indicates an accident.</td>
</tr>
<tr>
<td>Contraflow</td>
<td>A sign with an arrow indicating traffic moving in both directions.</td>
</tr>
<tr>
<td>Detour</td>
<td>A sign with a curve indicating a detour or diversion.</td>
</tr>
<tr>
<td>Information</td>
<td>A sign with a question mark indicating additional information.</td>
</tr>
<tr>
<td>Narrow road</td>
<td>A sign indicating a narrow road.</td>
</tr>
<tr>
<td>Parking information</td>
<td>A sign indicating parking availability.</td>
</tr>
<tr>
<td>Traffic jam</td>
<td>A sign indicating a traffic jam.</td>
</tr>
<tr>
<td>Road work</td>
<td>A sign indicating road work.</td>
</tr>
<tr>
<td>Slippery road</td>
<td>A sign indicating slippery road conditions.</td>
</tr>
<tr>
<td>Other hazard</td>
<td>A sign indicating other hazards.</td>
</tr>
<tr>
<td>Road closed</td>
<td>A sign indicating a road closed.</td>
</tr>
</tbody>
</table>

**Extent**

Certain traffic messages also contain information on the extent of the traffic obstruction. In addition to the symbol, a yellow, orange, red or black line along the route is shown on all scales up to 3 miles. The length of the line is corresponds to the extent (distance) of the traffic problem.

**Scale of the area for traffic information**

The map scale determines the amount of traffic information that can be displayed; the larger the area on the map shown on the screen, the greater the amount of information displayed.
04  Traffic information

Reading information

Read traffic message

A traffic problem and the area affected, marked by arrows

When the crosshairs are placed over an area where there is a traffic disruption (marked by arrows along the road), a flashing box with the traffic symbol is displayed.

In order to read the traffic information:

- Press OK and select Traffic information + OK.

Traffic information

Main menu

Traffic information

Read traffic message

With Read traffic message selected, press OK to display the following view:

1. Move the crosshairs to the traffic disruption (indicated by a colored line or arrows parallel with the road) that you would like information about. A traffic symbol with a box will begin to flash on the map.

2. Press OK and information similar to the illustration will be displayed:

Detailed information about the traffic disruption is linked to the symbol, including (if available):
Reading information

- expected duration
- limitations (speed, vehicle width/height, etc.)
- roads affected

If there is more than one traffic disruption within the box, press **OK** to display information about the problem closest to the center of the cross-hairs first.

Numbers, such as "2/5" at the top of the screen, indicate that the currently displayed traffic message is number 2 of a total of 5 in the box. Display the other messages by pressing **OK**.

- Return to the map screen by pressing **EXIT**.
Dealing with traffic problems

Avoiding traffic disruptions

Traffic events ahead

Menu row 2 when no itinerary has been set.

With Traffic events ahead selected, press OK to list the current traffic disruptions.

Traffic events along route

Menu row 2 with a set itinerary.

This is the same menu row as in the previous section, but with a set itinerary. The text then changes from Traffic events ahead to Traffic events along route. You can opt to have the system guide you around the traffic disruption on another route.

Press OK to list the traffic disruptions along the route.

A list with one disruption along the itinerary’s route.

The driver can avoid traffic disruptions by letting the system choose another route. To do so:

1. Select the traffic disruption to be avoided and press OK to mark the selection.
2. A number of areas can be marked to be avoided. Up to 15 areas with traffic disruptions can be selected.
3. Continue by marking Calculate new route + OK.

The system will then calculate a new route to avoid the traffic disruption.

To get detailed information about a listed traffic disruption:
- Select one from the list and press # INFO (on the center console control panel) to display the information.

Avoided traffic events

The marked traffic problems are listed here.
A list with one alternative that can be edited.

The following can be done:

- **Clear all**: unmark all alternatives.
- **Select one of the alternatives + OK**: the alternative will be unmarked.
- **Select one of the alternatives + # INFO**: detailed information and a map will be displayed.

- Return to the map by pressing **EXIT** or select **Calculate new route + OK**: the itinerary will be adjusted according to the changes made.

Detailed information, return to the menu by pressing **EXIT**.
Points of interest (POIs)................................................................. 72
05 Symbols on the map

Points of interest (POIs)

Specify individual POIs to be shown on the map or select All or None, see page 57.

Marked POIs will be shown on the map

Settings ➔ Map options ➔ POI on map ➔ Selected

To do so:

- Select/deselect a POI by turning TUNE and pressing OK. Finish 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

- The icons used for POIs and the number of POIs available may vary from country to country.
- New icons may be added/removed when the system is updated. The icons for all available POIs can always be found under Settings in the navigation system's menus.

Some examples of symbols that can be selected to be displayed on the map:

- Gas station
- Gas station with CNG (biogas)
- Gas station with LPG (liquid petroleum gas)
- Car wash
- Auto service & maintenance
- Rental Car Agency
- Car race track
- Volvo dealer
- Parking
- Parking garage
- Parking for large vehicles
- Tourist information
- Historical monument
- Tourist attraction
- Hockey rink
- Sports complex
- Exercise area
- Ski resort
- Movie theater
- Amusement park
### Points of interest (POIs)

<table>
<thead>
<tr>
<th>Opera house/theater</th>
<th>Bar/nightclub</th>
<th>Zoo</th>
<th>Restaurant</th>
<th>Restaurant, Chinese</th>
<th>Restaurant, sea food</th>
<th>Fast food</th>
<th>Café</th>
<th>Grocery store</th>
<th>Shopping mall</th>
<th>Dry cleaner</th>
<th>News stand</th>
<th>Barber shop/hair salon</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Park &amp; Recreation</th>
<th>Rest area</th>
<th>Hotel</th>
<th>Convention/exhibition center</th>
<th>Train/commuter train station</th>
<th>Airport</th>
<th>Bus station</th>
<th>Ferry terminal</th>
<th>Marina</th>
<th>Municipal/government office</th>
<th>Higher education/university</th>
<th>City center</th>
<th>Police station</th>
<th>Fire station</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Library</th>
<th>Hospital</th>
<th>Pharmacy</th>
<th>Bank</th>
<th>ATM</th>
<th>Post</th>
<th>School/daycare center</th>
<th>Campground</th>
</tr>
</thead>
</table>
The vehicle’s position on the map is incorrect.
The Global Positioning System (GPS) indicates the car’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 car’s position may not be precise.

VNS 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 VNS 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 select NO 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 car’s position on the map is incorrect.
If the car 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 car’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 is 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 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 maps and data on the DVDs are static. They will not automatically update to reflect real-life changes to road and traffic patterns. Updated DVDs are produced periodically. Please contact your Volvo retailer for more information about availability.

The map scale sometimes changes.
There is no detailed map information for certain areas. If this is the case, the system automatically changes the map scale.

Certain menu options are not available.
Check the settings that you have made. Select Reset to default for the particular option to return to the default settings.

The car symbol on screen jumps forward or spins.
The system may need a few seconds to sense the position and movement of the car before you drive off.
1. Switch off the VNS system and the ignition.
2. Switch on the ignition again and restart VNS, but remain at a standstill for a short time before driving off.

I am planning a long trip but do not want to specify destinations in 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 cross hairs. 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 for updated map information.

What is the easiest way to check the current map version?
See Settings ➔ System information ➔ Map version: for information about the map version and which geographic area it covers.

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.

See also www.volvocars.com/navi for additional information about maps, etc.
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Denso

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