### Types of roads

<table>
<thead>
<tr>
<th>Types of roads</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeways</td>
<td>Green</td>
</tr>
<tr>
<td>Main roads</td>
<td>Red</td>
</tr>
<tr>
<td>Secondary main roads</td>
<td>Brown</td>
</tr>
<tr>
<td>Normal roads</td>
<td>Dark gray</td>
</tr>
<tr>
<td>Local roads</td>
<td>Dark green</td>
</tr>
</tbody>
</table>

### Text and symbols on the screen

1. **Area to be avoided**
2. **Distance to the next guidance point**
3. **Direction to take at next guidance point**
4. **Type of junction**
5. **Intermediate destination**
6. **Name of next street or road**
7. **Next guidance point**
8. **Stored location**
9. **Symbol for a Point of Interest – POI (Gas station)**
10. **Remaining time to destination**
11. **Remaining distance to destination**
12. **Map scale**
13. **Route**
14. **Current road**
15. **Final destination**
16. **Famous landmarks**
17. **The vehicle’s current location**
18. **Completed section of the route**
19. **Starting point**
20. **Traffic information**
21. **Outer ring of compass – direction to destination**
22. **Compass**
VOLVO NAVIGATION SYSTEM (VNS) WITH RTT

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

RTT" (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 see page 80.

1 Option. Not available in all markets.
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</tbody>
</table>
GETTING TO KNOW THE NAVIGATION SYSTEM
01 Getting to know the navigation system

Using this manual
The manual is divided into chapters describing the various features and functions of the navigation system.

A section dealing with common questions and answers, and an index, can be found at the end of the manual.

Menu selections/Paths
Menu selections are shown in gray text in this manual, for example:

Set destination ➔ Address ➔ City

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.

© 2009 Volvo Car Corporation
**Introduction**
The VNS system can be used even if a destination has not been selected.

The vehicle’s current route will be shown on the screen and the vehicle’s position will be indicated by a blue arrow on the map.

The system’s contents may vary from state to state, and not all menu selections may be available for technical reasons.

**Start up**

The system starts up by displaying text on the screen that must be confirmed by pressing ENTER after you have selected to use either Easy mode or Advanced mode.

**Map mode**
When the system has started, the screen will display the main menu briefly before entering Map mode. A map of the vehicle’s current location will then be displayed.

- Press BACK to display the main menu.
- Press ENTER to activate the shortcut menu.
- Press the navigation control to activate Map scroll mode, for example to see parts of the map that are outside of the screen area.

Pressing ENTER in this mode activates the Map scroll menu, see page 34.

**On/Off**

**ON**
The ignition must be in position I or II in order to operate the system (refer to the vehicle’s owner’s manual).

- Press ENTER or BACK.
The screen will slide up from the dashboard automatically. It may take several seconds for the system to determine the vehicle’s location and direction.

**Off**
1. Use the navigation control to go to Shut down.
2. Press ENTER (press BACK to go to the main menu before shutting down).

The screen will retract automatically into the dashboard.

**NOTE**
The system can be used even if the engine is not running. It should be turned off when not in use to help avoid battery drain.

**Settings**
The system is provided with default settings, but it will start with the settings that were most recently used.

If a setting is changed and you wish to return to the default setting, only the currently selected function will be affected.

There is no global reset function to return all settings to default.
01 Getting to know the navigation system

Before you start

**Easy/Advanced modes**
When the navigation system is started, the desired user mode can be selected.

- **Easy**
  Only the primary menus are available in this mode, and can be used to simply get directions from point A to B.

- **Advanced**
  This mode makes all settings and functions available.

**Switching between modes**
Switching between modes can be done in Settings.

[NOTE]
Settings made in Easy mode are not used if the system is switched to Advanced mode, and vice versa. Settings are stored in the mode in which they were made.

**Demo (simulated guidance)**
The navigation system contains a function that demonstrates guidance to a destination. However, please be aware that the demo can only be run when the vehicle is at a standstill.

This function is only available when VNS is in Advanced mode, see Demo on page 63.
Contents of the main unit
All map information is stored on the main unit’s hard drive. There is no DVD in the unit when it is delivered. The DVDs are used for any updates to system or map information, see the instructions of the DVD’s cover.

New DVDs are issued on a regular basis with updated and new information. The latest DVDs can be purchased from a Volvo retailer.

Volvo cannot be responsible for the accuracy or completeness of data, maps, or routing guidance presented by your navigation system.

NOTE
The main unit’s DVD player is intended for Volvo DVDs only.

Updating with a DVD

NOTE
Please note that an update may take up to 90 minutes. Be sure the vehicle’s battery is adequately charged before beginning.

If a DVD contains new system software in addition to map information, the system will begin by running the software installation.

The vehicle can be driven while the navigation system is being updated, but VNS cannot be used while the update is in progress.

To perform an update:
1. Switch on the navigation system.
2. Remove a DVD if one is already inserted in the system’s DVD player.
3. Insert the DVD containing the updated information. If there is more than one disc, insert them in the numbered order.
4. The system will now be automatically updated. Information will be displayed to show update progress.
5. After the update, the DVD containing the most recent update must remain in the system’s DVD player. If more than one disc has been used, insert disc 1. If the disc is removed from the player, the navigation system will stop functioning.

If the system is switched off while an update is in progress, the update will be resumed the next time the system is switched on.

In certain cases, updating map information will add new system functions.

The VNS start screen will be displayed when updating is completed.

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.

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.
01 Getting to know the navigation system

C30 system overview
Main unit
The main unit contains a hard drive, a DVD player (for navigation system map discs only) and an integrated GPS (Global Positioning System) receiver and a TMC (Traffic Message Channel) receiver.

The main unit has the following functions:
• Calculates the vehicle’s current position
• Calculates the route to the selected destination
• Processes traffic information
• Provides voice guidance
• Stores map data
• Uses the DVD player to update map data and system software

GPS receiver
The navigation system uses GPS signals, the vehicle’s speedometer and a gyroscope to determine the vehicle’s current location and direction.

Traffic information – TMC (option)¹
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.

The area covered by the system is being steadily expanded, which makes occasional updates necessary, see page 13.

Regardless of whether the navigation system is in Easy or Advanced mode, broadcast traffic information is always received and presented. See page 66 for additional information.

IR port for the remote control
See page 24.

Speakers
Sound from the navigation system comes through the audio system’s front speakers.

Navigation control
See page 24.

Screen
The screen displays the maps and provides detailed information on intersections, distances, etc. See page 13 for information on caring for the screen.

¹ Not available in all markets.
01 Getting to know the navigation system

S40 system overview
01 Getting to know the navigation system

1 Main unit
The main unit contains a hard drive, a DVD player (for navigation system map discs only) and an integrated GPS (Global Positioning System) receiver and a TMC (Traffic Message Channel) receiver.

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2 Speakers
Sound from the navigation system comes through the audio system’s front speakers.

3 Navigation control
See page 24.

4 Screen
The screen displays the maps and provides detailed information on intersections, distances, etc. See page 13 for information on caring for the screen.

5 IR port for the remote control
See page 24.

\(^1\) Not available in all markets.
01 Getting to know the navigation system

V50 system overview

1

2

3

4

5
01 Getting to know the navigation system

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The main unit contains a hard drive, a DVD player (for navigation system map discs only) and an integrated GPS (Global Positioning System) receiver and a TMC (Traffic Message Channel) receiver.

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IR port for the remote control
See page 24.

\(^{1}\) Not available in all markets.
01 Getting to know the navigation system

C70 system overview

1. [Image of a glove compartment]
2. [Image of a car interior focusing on the navigation system]
3. [Image of a navigation device]
4. [Image of a laptop or navigation console]
5. [Image of a triangle-shaped object, possibly a speaker or volume control]
1 Main unit
The main unit contains a hard drive, a DVD player (for navigation system map discs only) and an integrated GPS (Global Positioning System) receiver and a TMC (Traffic Message Channel) receiver.

The main unit has the following functions:
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- Calculates the route to the selected destination
- Processes traffic information
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- Stores map data
- Uses the DVD player to update map data and system software

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Regardless of whether the navigation system is in Easy or Advanced mode, broadcast traffic information is always received and presented. see page 66 for additional information.

2 Speakers
Sound from the navigation system comes through the audio system’s front speakers.

3 Navigation control
See page 24.

4 Screen
The screen displays the maps and provides detailed information on intersections, distances, etc. See page 13 for information on caring for the screen.

5 IR port for the remote control
See page 24.

¹ Not available in all markets.
01 Getting to know the navigation system

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Navigation control
See page 24.

Screen
The screen displays the maps and provides detailed information on intersections, distances, etc. See page 13 for information on caring for the screen.

IR port for the remote control
See page 24.

¹ Not available in all markets.
01 Getting to know the navigation system

Navigation system controls

Location of the navigation control and IR port

The navigation system can be operated with the steering wheel-mounted navigation control or with the remote control.

The navigation control is located on the right, rear side of the steering wheel.

Point the remote toward the IR port located at the screen (only the XC90 has the IR port on the audio system as shown above).

NOTE

The remote control runs on AAA or R03 batteries. Check the batteries if the remote does not function properly.

Navigation control/remote control

The navigation control and remote control have the same functions. Each enables you to navigate through the menus and make settings/selections.

1 Use the navigation control to move among various menu alternatives or to move the cross hairs on the map. The buttons <, >, and v on the remote control can be used for the same purpose.

2 ENTER – Confirms or activates selections.

3 BACK – Press this key to go to the previous menu or to undo a selection.

"Do not disturb"

In certain situations, the system may need a few extra seconds to calculate a route. A symbol will be displayed while this is taking place.

NOTE

While the route calculation symbol is displayed, the navigation system cannot accept any commands from the navigation control, or the ENTER or BACK buttons.

NOTE

The exact design of the navigation control may vary from model to model.
01 Getting to know the navigation system

Entering letters and selecting alternatives

The on-screen keyboard is used in many situations in the menus to select specific information such as points of interest, a state/city/street address/zip code, etc.

- Select letters with the navigation control and press ENTER.

When there are no further alternatives, the entire name will be displayed automatically.

The list at the bottom of the screen shows the first three possible alternatives made available by the letters that have been entered.

1. You can also go directly to the list of names by pressing BACK.
2. Select a name and press ENTER.

The scroll bar at the right of the screen indicates that there are more alternatives than can be displayed at one time.

The figure shown indicates the number of names on the list.

- Press BACK to exit the list of names.
- You can also press BACK to delete letters one at a time

General searches

Searches can be made at any time and always function in the same way, regardless of where you may be in the menu system when a destination is selected.

Pressing ENTER while keying in characters displays all result combinations for the respective selections: City, Street, Points of interest, etc.

For example, when searching for Newark Airport, all combinations of Newark will be displayed when NE is entered. As the search becomes more specific, fewer alternatives will be displayed, making selection easier.

A search beginning with NE will also display, for example, NEwmake restaurant since all alternatives containing a number of words separated by spaces are included in the search.
01 Getting to know the navigation system

Display and voice guidance

1. 3 mi to Point on map
2. 0.3 mi
3. 4 mi
4. 2.5 mi

(I-95 N) NEW JERSEY TPKE
BROADWAY
E 14TH ST
MANHATTAN ISLAND
E 33RD ST, NEW YORK, NY
Display appearance
The screen display is determined by factors such as geographic location and settings that have been made, such as map scale, the symbols selected to be displayed, 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.

1 On a highway. The screen will display the points of interest along the highway. This function is available even if a destination has not been selected. A scroll list at the right indicates that there are additional alternatives.

2 Detailed map showing intersections. The screen will display lanes on the road to help you select the correct one at the next intersection. This function is only available on major roads. Voice guidance is also always provided.

3 Two maps have been selected in Settings. Both sections of the screen display the same map, but with different scales, see p. 38 for more information.

4 Map scroll mode.

Voice guidance
After a destination and guidance has started, a voice message indicating the action to be taken and distance will be provided as you approach an intersection, exit, etc. A detailed map of the intersection will also be displayed. The message will be repeated as you come closer to the intersection.

The upper row on the screen shows the distance to the next exit or turn, and the name of the exit.

The next row provides road sign information. If the number of the road or exit, or the name of the exit are available, this information will also be displayed.

The vehicle’s current location is shown at the bottom of the screen.

Toll booths
When driving on toll roads, you will receive voice notification as you approach toll booths.

This message will only be provided if a destination has been selected.

NOTE
Toll booths are shown on the map but cannot be searched for as points of interest.
Unverified roads and Compass

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 with gray arrows instead of the usual yellow ones.

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.

⚠️ 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.

Compass
The compass can be displayed in two ways:
– With north always at the top of the screen.
– With the vehicle’s current direction at the top of the screen.

The red point of the compass needle points north on the map.

The gray destination arrow in the outer ring of the compass points toward the destination.

Go to Map Options under Settings to change the way in which the compass is displayed or to hide it.
## 01 Getting to know the navigation system

### Menu selections

#### Menus on two levels – Easy mode

<table>
<thead>
<tr>
<th>Set destination</th>
<th>Guiding voice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Guiding volume</td>
</tr>
<tr>
<td>Points Of Interest (POI)</td>
<td>Language</td>
</tr>
<tr>
<td>Last 20</td>
<td>Color</td>
</tr>
<tr>
<td>Point on map</td>
<td>Map view</td>
</tr>
<tr>
<td></td>
<td>Distance unit</td>
</tr>
<tr>
<td></td>
<td>User mode</td>
</tr>
</tbody>
</table>

**Show destination**

**Remove destination**

**Settings**

**Shut down**

For information on all of the menu alternatives in Easy mode, see page 35.

#### Menus on two levels – Advanced mode

<table>
<thead>
<tr>
<th>Set destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
</tr>
<tr>
<td>Points Of Interest (POI)</td>
</tr>
<tr>
<td>Stored locations</td>
</tr>
<tr>
<td>Last 20</td>
</tr>
<tr>
<td>Return trip</td>
</tr>
<tr>
<td>Point on map</td>
</tr>
<tr>
<td>Latitude/longitude</td>
</tr>
</tbody>
</table>

**Itinerary**

- Start guidance
- Add to itinerary
- Route options
- Clear itinerary

**Next destination**

**Current position**
### 01 Getting to know the navigation system

#### Menu selections

<table>
<thead>
<tr>
<th>Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>➤ Traffic information</td>
<td></td>
</tr>
<tr>
<td>➤ Route options</td>
<td></td>
</tr>
<tr>
<td>➤ Map options</td>
<td></td>
</tr>
<tr>
<td>➤ Guiding options</td>
<td></td>
</tr>
<tr>
<td>➤ System options</td>
<td></td>
</tr>
<tr>
<td>➤ Start demo</td>
<td></td>
</tr>
</tbody>
</table>

**Shut down**

For information on all of the menu alternatives in Advanced mode, see page 47.
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Menu selections ...................................................................................... 35
Setting a destination ............................................................................... 36
Show/Remove destination ....................................................................... 39
Settings ................................................................................................... 40
**02 Easy user mode**

### Main menu, Shortcut menu, Scroll menu

**Introduction**
The navigation system starts in *Easy* user mode.

The most important menus are available in this mode, which makes things easier if changes in Settings are not often made.

**Main menu**

The main menu is at the top of the menu structure and can be accessed by pressing the **BACK** key several times.

**Switching between settings**
To switch between Easy and advanced modes, go to **Settings ➔ System options ➔ User mode**.

**Shortcut menu**

This menu offers icons for making quick setting changes.

- Press **ENTER** in map mode and select a sub-menu with **<** or **>**.

**– Map scale/Current route**
Change the map scale for a larger perspective or to display greater detail.

At the top of the menu, you can choose to see either the remainder of the route
to the destination from your current location, or the entire route.

The map scale can be changed from 1/32 of a mile to 60 miles. Hold the button down until the map scale of your choice is displayed, and release the button.

**– Guidance**
Press **ENTER** to repeat voice guidance.

**Traffic information (option)**
Regardless of whether the navigation system is in *Easy* or *Advanced* mode, broadcast traff-

**Scroll menu**

- Activate map scrolling by pressing the **navigation control**.
- Press **ENTER** in scroll mode to activate the Scroll menu.

**Scale**
This function changes the scale of the area in which you are currently driving. The scale can be changed from 150 ft to 60 miles.

**Set as destination**
Select a position on the map. Guidance will begin immediately.

---

1. A destination must be selected.
2. Not available in all areas.
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.

### Set destination

<table>
<thead>
<tr>
<th>➤ Address</th>
<th>p. 36</th>
</tr>
</thead>
<tbody>
<tr>
<td>State/City/Number/ Street/Interse.</td>
<td></td>
</tr>
</tbody>
</table>

| ➤ Points Of Interest (POI) | p. 37 |

| ➤ Last 20 | p. 37 |

| ➤ Point on map | p. 38 |

### Show destination p. 39

### Remove destination p. 39

### Settings

### Guiding voice

| ➤ Guiding volume | p. 40 |
| Off/1/2/3/4/5 |     |

| ➤ Language | p. 40 |
| US English/Espanol/ Francais CAN |     |

| ➤ Color | p. 40 |
| Black/Chrome/Blue/ Dark |     |

| ➤ Map view | p. 40 |
| 2D/3D |     |

| ➤ Distance unit | p. 40 |
| Km/Miles |     |

| ➤ User mode | p. 40 |
| Easy/Advanced |     |

| Shut down | p. 11 |
02 Easy user mode

Setting a destination

Selecting an address

1. To change the state or city, use the navigation control to move to State and/or City.
2. Press ENTER, or choose among the most recently chosen alternatives with 

**NOTE**

The definition of a city or area may vary. It will sometimes be an entire city, or a particular section of a city.

The system does not contain street addresses for very small towns or villages. In these cases, the center of the town is used as the destination.

**Alternative 1**
- Select Street without choosing a city.

The system will provide guidance to the mid-point of the selected street. If the street exists in more than one city, a list of alternatives will be displayed.

**Alternative 2**
1. Begin by selecting a City.
2. Select a Street.

Selecting a street number

If the address selected has a street number, this can be used as a specific destination.

1. After selecting a street, go to the Number row and press **ENTER** or
   Go directly to **Set**. Alternative street numbers will be displayed.
2. Go to **Set** after you have entered a street number.
   If a street number has not been entered, the system will guide you to the mid-point of the selected street.

**Set**

Confirms the entered number.

**Undo**

Returns to the previous screen.

Selecting an intersection

- Go to **Interse.** and choose a street that intersects the selected street.

Start guidance

- Go to **Start guidance** to begin receiving directions to the destination.
Search using a Zip code

Instead of searching in a city, you can opt to search for an area’s Zip code.

1. Go to ZIP code and press ENTER.
2. Select the digits in the Zip code and press ENTER or Select a Zip code from the list.
3. Go to Street to select a street with the Zip code entered and press ENTER.
4. Go to Start guidance to begin receiving directions to the destination.

**NOTE**
This also applies to searches using Points of interest.

**Point of Interest (POI)**

Points of interest include gas stations, hotels, restaurants, Volvo retailers, hospitals, parking lots, etc.

1. Highlight menu alternative POI.
2. Press ENTER to access a sub-menu with different search options in order to select a point of interest.
3. Go to Type, press ENTER.
4. Select a POI from the list provided, press ENTER.
5. In the list All names, select a name from the list.
6. Press ENTER to display all information about the selected POI.
7. Press ENTER to start guidance.

**Last 20**

This is a list of the twenty most recently selected destinations. The scroll bar at the right of the screen indicates that there are more alternatives than can be displayed at one time.

- Go to the desired destination and press > or ENTER to access the sub-menu.
02 Easy user mode

Setting a destination

Set as destination
Adds the destination to the itinerary.

Delete location
Remove the destination from the Last 20 list.

Point of the map

Set destination ➔ Point on map

1. Use the Arrow keys to move the cursor to the desired destination, press ENTER to access the map scroll menu.

2. Select Set as destination and press ENTER.

NOTE
A position on the map can be selected directly with the cursor by using the Arrow keys in map mode.
Show/Remove destination

**Show the destination on the map**

Show destination

- Press **ENTER** for an overview on the map of the area that you have selected as your final destination.

**Remove the destination**

Remove destination

1. Press **ENTER** and go to the destination to be deleted.
2. Press **ENTER** again.
02 Easy user mode

Settings

Guiding voice
Settings ➔ Guiding voice
Select a male or female voice for directions.

Guiding volume
Settings ➔ Guiding volume
Set the volume level for voice guidance or turn off this function.

Language
Settings ➔ Language
Select the language for menus, text and voice messages.

Colors
Settings ➔ Color
There are 4 screen settings that can be made – choose the one that you prefer.

Two-dimensional (2D) or three-dimensional (3D)
Settings ➔ Map view
The map can be displayed in 2D (viewed straight from above) or in 3D (an angled view from above).

Distance unit
Settings ➔ Distance unit
Choose between miles and kilometers.

User mode
Settings ➔ User mode
Switch between the Easy and Advanced user modes.
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ADVANCED USER MODE
Introduction
The Advanced user mode can be selected when the navigation system starts.
This mode provides access to all of the system’s settings and functions.

Main menu
The main menu is at the top of the menu structure and can be accessed by pressing the BACK key several times.

Switching between settings
To switch between Easy and advanced modes, go to Settings ➔ System options ➔ User mode.

Shortcut menu
This menu offers icons for making quick setting changes.
- Press ENTER in map mode and select a sub-menu with ◄ or ►.

Most system settings can be made in Settings in the main menu while the remaining ones can only be made in the Shortcut menu.

- Map scale/Current route
A menu with 4 alternatives will be displayed.
Pressing ENTER on the first alternative displays a map showing the remainder of the route ¹ from the vehicle’s current location to the destination.
Pressing ENTER on the second alternative displays a map showing the entire route¹.
Pressing ENTER on the alternatives (+) or (–) changes the map scale in different steps from 1/32 of a mile to 60 miles to make it possible to see either a larger perspective or greater detail.
The map scale can be changed freely by holding down ENTER until you see the scale of your choice.
If you have chosen to display two maps, the map scale symbol is displayed at both ends of the Shortcut menu to make it possible to adjust the maps scales individually.

- Guidance
Press ENTER for guidance or to repeat voice guidance.

- Map/Route
Route outline
A list of coming guidance points. In addition to the name of the road or street, the distance between guidance points and an arrow showing the type of action to be taken will be displayed.

One map/Two maps
Choose to display either one or two maps of the area in which you are traveling.

Surveillance²
This function makes it possible to store map views of 3 different areas for surveillance, such as ones with heavy traffic, road construction areas, etc.

¹ A destination must be selected
² Only available in areas with TMC reception.
Select Surveillance 1, 2 or 3 to view previously set surveillance areas, see page 46.

– Detour
This displays a menu with Avoid and the available alternatives. 1-3-6-12-25-50 miles.

Avoid streets/roads
This function removes streets or roads from a set itinerary to help you avoid driving through road construction areas, etc.

1. Select Avoid in the Detour menu and press ENTER. A list of streets included in your route will be displayed.
2. Go to the street to be avoided and press ENTER.
3. Select other streets with ▲ or ▼ and press ENTER.
   Whenever possible, the system will then calculate a new route that will guide you back to the original one after you have passed the area(s) to be avoided.

Avoid next ½–50 miles
This function enables you to avoid an entire area in the original itinerary, for example to avoid a city during rush hour.

– Select an alternative in the Detour menu ½–50 miles and press ENTER.
   Whenever possible, the system will then calculate a Detour that will guide you back to the original route after you have passed the area(s) to be avoided.
   It is also possible to avoid a certain area by drawing a box directly on the map, see Avoid specified areas under

Settings ➔ Route options on page 59.

– Traffic information (option)³
Choose to read information on traffic disruptions in the area displayed on the screen.
A change in map scale also changes the number of messages displayed, see page 34, see page 44 or see page 69.

Read message
Scroll among the messages displayed on the screen.
Show all
Display all messages.
Hide all
Do not display traffic messages.

Show selected
Select the types of traffic messages to be displayed on the map.
Regardless of whether the navigation system is in Easy or Advanced mode, broadcast traffic information is always received and presented. see page 66 for additional information.

– Points of interest (POI)
Displays a menu with different ways of searching for a point of interest.

Around the car
Pressing ENTER makes it possible to search for POIs around the vehicle. See page 50.

Along the route
Pressing ENTER makes it possible to search along the route. See page 50.

Along HWY
Pressing ENTER makes it possible to search along the highway on which you are currently driving.
Choose to search for rest areas, gas stations, restaurants, etc., that are easy to access from the highway.
If a route crosses a number of highways, the system will search along the highway on which you are traveling.

³ Not available in all areas.
Map scroll menu

1. Activate map scrolling with the navigation control.
2. Press ENTER in scroll mode to display the scroll menu.

Scale
Change the map scale over the area selected.

Set as destination
Add the location as a destination in an itinerary.

POI around
Search for nearby points of interest.

Read traffic msg.
Search for current traffic messages in the area.

Surveillance¹
Select between Set for surveill. 1, 2 or 3 and press ENTER to store a map view you want to save as a surveillance area, e.g. heavily trafficked roads that are often subject to traffic problems.

Activating the map
Select map options in the Shortcut menu and select the areas requiring surveillance.

Store location
Save the location for later use in Set destination ➔ Stored locations.

Following a route on the map
To make it easy to follow a set itinerary, the system has a built-in "magnet" function. This means that regardless of the number of turns or changes of direction in the route, the cross hairs will follow the route by simply holding down a button.

One of the lines in the cross hairs will be displayed darker than the other one to indicate which button should be pressed.

¹ Not available in all areas.
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.

### Menu selections

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# 03 Advanced user mode

## Menu selections

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| Shut down                        | p. 11 |

<sup>A</sup> Option. Not available in all markets.
Selecting an address

1. To change the state or city, use the navigation control to move to State and/or City.
2. Press ENTER, or choose among the most recently chosen alternatives with >.

NOTE
The system will place the cursor on Street. The most recently selected State and City will be pre-selected.

Selecting a street address

1. After selecting a street, go to the Number row and press ENTER or
   Go directly to Set. Alternative street numbers will be displayed.
2. Go to Set after you have entered a street number.
   > If a street number has not been entered, the system will guide you to the mid-point of the selected street.

Set
Confirms the entered number.

Adjust
Returns to the previous screen.

Selecting an intersection

1. Go to Interse. and choose a street that intersects the selected street.

Start guidance

1. Go to Set to add the entered address to the itinerary.
2. Go to Start guidance to begin receiving directions to the destination.

Information
Provides information about the destination.
03 Advanced user mode

Setting a destination

Search using a Zip code

Instead of searching in a city, you can opt to search for an area’s Zip code.

1. Go to ZIP code and press ENTER.
2. Select the digits in the Zip code and press ENTER or Select a Zip code from the list.
3. Go to Street to select a street with the Zip code entered and press ENTER.
4. Go to Start guidance to begin receiving directions to the destination.

POI by name

Enter the name of the point of interest, or select an alternative in the menu. The list only shows the points of interest in the selected city/area.

Around the car
The system will search for POIs around the car (max. 60 mile radius). The search will stop after 40 POIs have been found.

Along the route
If a destination has been selected, the system can search for points of interest along the route (within approx. 0.5 miles from the route).

Around point on map
The system will perform the same type of search as for Around the car, but the search will be based on a point on the map.

Along street
The system will search along a specified street.

Point of Interest (POI)

Points of interest (POI) include gas stations, hotels, restaurants, Volvo retailers, hospitals, parking lots, etc.

- Press ENTER to access a sub-menu with different search options in order to select a point of interest.

NOTE

This also applies to searches using Points of interest.
03 Advanced user mode

Setting a destination

**Types of points of interest/Different categories**

You can also search for Points of interest around the car, along the route, or along the highway in the Shortcut menu, see page 34.

### NOTE

You can also search for Points of interest around the car, along the route, or along the highway in the Shortcut menu, see page 34.

The system will first place the cursor on **Type**. The most recently selected **State** and **City** should be displayed.

If this is not the case:

1. Go to **State** and/or **City** and press **ENTER** or
   Choose among the most recently selected ones using ➤.
2. Go to **Name** and press **ENTER** to select a POI without specifying a city.
3. Go to **Set** and press **ENTER**.
4. Then go to **Start guidance** and press **ENTER** to receive directions to the destination.

### Information about the point of interest

**Information** shows the address, geographic coordinates, and in certain cases, also the telephone number of the point of interest.

**Map**

Shows the POI's location on the map.

**2nd POI**

Points of interest such as airports often have restaurants, gas stations, etc., on site.

Instead of searching for a restaurant in the main menu, you can choose a restaurant directly under the selected airport. Avoiding alternatives outside of the airport makes the search quicker and easier.

### Stored locations

**Previously stored locations**

| Set destination ➔ Stored locations |

A stored location is a previously stored destination, such as a home address, favorite restaurant, an airport, or a Volvo retailer. Information about storing locations can be found on see page 55.

- Navigate among the stored locations and press ➤ or **ENTER** to access the sub-menu.

**Add to itinerary**

Place the stored location in the itinerary.

**Information**

Provides information about the stored location.

**Edit**

Change the name, add a sound, etc., for the stored area. See also the heading "Add information about a stored location."

**Sorting**

Sort the list of stored locations by icon or name.

**Delete location**

Deletes the stored location.

**Select a position for a new stored location**

1. Select **Edit**,
Setting a destination

2. Use \( \rightarrow \), to go to Adjust.
3. Press **ENTER** to specify a position on the map for a new stored location.
4. Move the cursor with the **navigation control** to a new position and press **ENTER**.
5. Then select Store and press **ENTER** to store the new location.

**Add information about a stored location**

- Select Edit and use \( \rightarrow \) to go to Add info.. Press **ENTER** to add additional information about the stored location.

The following can be added to each stored location:

- Alert On/Off (to remind the driver that he/she is approaching the stored location)
- Icon
- Name
- Address
- City
- State
- Phone
- E-mail
- URL

**Last 20**

Set destination ➔ Last 20

This is a list of the twenty most recently selected destinations. The scroll bar at the right of the screen indicates that there are more alternatives than can be displayed at one time.

- Go to the desired destination and press \( \rightarrow \) or **ENTER** to access the sub-menu.

Add to itinerary

Adds the destination to the itinerary.

Information

Provides a summary about the destination.

Delete location

Remove the destination from the Last 20 list.

**Return trip**

Set destination ➔ Return trip

- Select Start guidance and press **ENTER**.

The system will begin guiding you back to the location where Start guidance was most recently selected.

**Point on the map**

**Searching via a point on the map**

Set destination ➔ Point on map

1. Use the **navigation control** to move the cursor to the desired destination.
2. Press **ENTER** to access the map scroll menu.
3. Select Set destination, see page 46.

**NOTE**

A position on the map can be selected directly with the cursor by using the **navigation control** in map mode.

**Latitude/longitude**

**Search by coordinates**

Set destination ➔ Latitude/longitude

1. Select a destination by specifying coordinates on the map.
2. Select a latitude with the **navigation control**: N for north or S for south.
3. Go to the second row to specify a longitude: select E for east or W for west.
Setting a destination

> OK
  Shows the position with the specified coordinates on the map.

4. Press ENTER to access the map scroll menu.

5. Go to Set as destination and press ENTER to select the position as a destination.

6. Press BACK to resume entering coordinates.

> Cancel
  Return to the previous screen.
Making an itinerary

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

Make an itinerary with several stops to avoid selecting a number of destinations during a trip.

Up to six intermediate destinations and one final destination can be specified in an itinerary.

Start guidance

Begin guidance to the destination.

Add to itinerary

All additional destinations are added to the itinerary.

Route options

Provides settings for selecting various types of roads, etc.

Clear itinerary

Deletes the entire itinerary.

Editing an itinerary

- Select a specified destination and press **ENTER** or **>** to access a sub-menu.

  Information
  Provides information about the destination.

  Delete
  Removes the destination from the itinerary.

  Move
  Change the destination’s position in the itinerary.

  Adjust
  Select a new location on the map as a destination.

  Store
  Save the destination, which will be accessible under *Itinerary*. 
Removing destinations from an itinerary

Delete all destinations: All intermediate destinations and the final destination will be deleted.
- Go directly to Clear itinerary and press ENTER.

Delete intermediate destinations in an itinerary:

1. Select one of the specified intermediate destinations and press ENTER or \( \rightarrow \) to access a sub-menu.
2. Go to Delete and press ENTER.

**NOTE**

Destinations that have been passed are automatically deleted from the itinerary.

Saving destinations for a return trip

Up to 250 destinations can be stored for re-use in different itineraries.

An audible signal that alerts the driver that he/she is approaching a stored destination as well as additional information can be linked to a stored destination, see page 52 – "Add information about a stored location."

Save a position on the map

1. In Map mode, use the navigation control to move the cursor to the point on the map to be saved and press ENTER.
2. Select Store in the Map scroll menu and press ENTER.
3. Use the navigation control to select the symbol to be displayed on the map and press ENTER.
4. Then use \( \uparrow \) to enter a name for the location.
5. Go to Store and press ENTER.

Map mode

1. In Map mode, use the navigation control to move the cursor to the point on the map to be saved and press ENTER.
2. Select Store in the Map scroll menu and press ENTER.
3. Use the navigation control to select the symbol to be displayed on the map and press ENTER.
4. Then use \( \uparrow \) to enter a name for the location and press ENTER.
Next destination

Next destination in the itinerary

The map will show the next destination.

1. Press ENTER or ➤ for information such as the name of the destination, or remaining travel time or distance from the current location to the destination.

2. Press ENTER again if other destinations have been specified for information and to see these destinations on the map.

3. Go to Map and press ENTER to see map information over the area.
The map shows the vehicle's current position.

- Press ENTER or ➞ for information about this position, such as its name or coordinates.
Traffic information (option)

Traffic information

Settings ➔ Traffic information

Regardless of whether the navigation system is in Easy or Advanced mode, broadcast traffic information is always received and presented. See page 66 for additional information.

NOTE

Please be aware that traffic information may not be available in all areas.
Route options

Route
Select Fast, short, or easy for the system to calculate a route.

– Fast: The system will prioritize major roads for the fastest permitted driving.
– Short: The system will prioritize as far as possible the shortest distance to the destination.
– Easy: The system will prioritize as far as possible roads that do not entail difficult driving situations or numerous intersections.

Avoid highways
Set the system to avoid highways/freeways when calculating a route.

Avoid toll roads
Set the system to avoid toll roads when calculating a route.

Avoid ferries
Set the system to avoid ferries when calculating a route.

Avoid car train
Set the system to exclude car trains when calculating a route.

Avoid traffic problems
Set the system to take traffic disruptions into consideration when calculating a route.

Avoid time-restr. roads
Set the system to avoid time-restricted roads when calculating a route.

NOTE
This function requires that the vehicle’s clock be correctly set for the current time zone.

Avoid specified areas
This function is designed to help you avoid being guided to areas, cities or sections of cities that you prefer not to drive through. The system always excludes these areas when calculating a route.

1. Set the system to avoid specified areas when calculating a route and press ➪.
2. Select Avoid specified areas and press ➪ again to specify an area.

• Use the navigation control to move among the options, select the desired settings and press ENTER to save the settings.
• Press BACK to undo a setting.
03 Advanced user mode

Settings

Reset to default
Return to the system’s factory settings for route options.

- Press \( \uparrow \), select OK and press ENTER.

NOTE
When the system calculates a route over longer distances, it is designed to select major roads (highways/freeways, etc.). If you have set the system to avoid highways and toll roads, the system will avoid guiding you to these types of roads to as great an extent as possible, and will only use such roads when no other reasonable alternative is available.

Map options
Select the way in which the map is displayed.

Settings \( \rightarrow \) Map options

- Move among the functions with the navigation control and press ENTER to save.

POI selection
- Press \( \uparrow \) to access a sub-menu.
  - Select Show to display all POI symbols on the map.
  - Select Hide to show no POI symbols.
  - Select Show selected and press \( \uparrow \) to select the symbols to be displayed on the map. The symbols selected to be displayed will be marked with an X.

Map
Select Show or Hide. If the map is hidden, the system will use an arrow for guidance.

Right map view
Choose to display the map in 2D (two dimensional - straight from above) or 3D (three-dimensional - angled from above).

- When 3D is selected, the vehicle's direction is always toward the top of the screen.
- When 2D is selected, choose whether 2D Heading or 2D North is to be at the top of the screen.

Map view
After selecting 3D with \( \uparrow \) or \( \downarrow \) and ENTER, the panel for selecting the elevation angle will be displayed. Select the desired angle with \( \wedge \) or \( \vee \) followed by ENTER and BACK.
Left map view
See the information in "Right map view."

NOTE
If 3D has been chosen for the right map, the left map can only be viewed in 2D.

Compass
Select the way in which the compass is displayed on the screen: Icon, Text or Hide.

Current location
Select whether or not the name of the street on which you are currently driving will be displayed at the bottom of the screen.

Reset to default
Return to the factory setting for all map options.

• Press », select OK and press ENTER.

Guiding options

Settings ➔ Guiding options

Time/dist. to go
Select RTA, ETA or Hide.

• RTA: (Remaining Time to Arrival) The time remaining from the current location to the destination.

• ETA: (Estimated Time of Arrival).

NOTE
The time set on the vehicle’s clock affects the times calculated by the system.

POI warning
The driver is alerted by an audible signal when he/she is approaching a section of road where accidents are common or a speed camera.

• Select Yes to activate the audible signal feature or No if no signal is desired.

Marking sections of road where accidents are common and/or have speed cameras is determined by state/provincial/local legislation.

Reset to default
Return to the factory setting for all guiding options.

• Press », select OK and press ENTER.

System options

Settings ➔ System options

• Move among the functions with the navigation control and press ENTER to save settings.

• Press BACK to undo a setting.

Guiding voice
Select a Male or Female voice.

Guiding volume
Set the volume level 1-5 for the guiding voice or choose Off.

Language
Select the language to be used by the system.

Menu color
Select Black, Chrome or Blue.

Map color
Select Bright 1, Bright 2 or Dark.

Light colors are intended for daylight use and dark colors are best suited for dark lighting conditions.

Screen saver
If the screen saver is set to ON, the screen will go blank after 30 seconds).

Help
Hide or Show context sensitive help texts at the bottom of the screen.
03 Advanced user mode

Settings

Distance unit
Choose between miles or kilometers.

User mode
Toggle between Easy and Advanced modes.

Date & time info
Set date and time information.

GPS Information

Shows coordinates and the altitude of the vehicle’s current location, and displays the number of satellites with which the system has contact.

- Press >

NOTE

Information about altitude is shown in steps of 30 ft. All altitudes below 150 ft are shown as <150 ft.

About
Shows system and map information.

Reset to default
Return to the factory setting for all system options.

- Press >, select OK and press ENTER.
Start the demo (system simulation)

Settings ➔ Start demo

When the vehicle is at a standstill, this function offers simulated guidance to the currently set destination. Settings can also be made during the demonstration.

- Use Stop demo in Settings to stop the simulation.

**NOTE**

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

**Reception and display**
Broadcast traffic information is always received, regardless of whether the navigation system is in *Easy* or *Advanced* mode.

Settings for the way in which traffic information is presented can only be made in *Advanced* mode, see page 44.

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

**NOTE**
Traffic information is currently not available in all areas.

The area covered by the system is being steadily expanded.

**Traffic symbols on the map**
When at least one traffic message has been received for the programmed route, this will be indicated by a symbol in the upper left corner on the map. Use the navigation control to scroll to the message in order to see the location and type of problem indicated.

Disruptions in traffic are marked by symbols, lines, and boxes. These symbols are displayed in red or yellow.

Red – important information.

Yellow – General information.

**Extent**

Certain traffic messages also contain information about the extent of the traffic disruption.

For all map scales up to five miles (5 km) the extent of the disruption is marked with a red or yellow line along the affected road. The length of the line indicates the extent (length) of the disruption.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🟢🌟</td>
<td>Accident</td>
</tr>
<tr>
<td>⬇️➡️</td>
<td>Slow-moving traffic</td>
</tr>
<tr>
<td>⬇️➡️</td>
<td>Slow-moving traffic in both directions</td>
</tr>
<tr>
<td>⬇️</td>
<td>Traffic at a standstill</td>
</tr>
<tr>
<td>⬆️</td>
<td>Local traffic message</td>
</tr>
<tr>
<td>🟢</td>
<td>Other information</td>
</tr>
</tbody>
</table>
Before guidance begins

When setting a new route, select whether or not the system should take traffic problems into account when the function Start guidance is activated, see page 54.

1. Select Avoid traffic problems.
2. Choose between Yes and No.

Yes
The system will avoid roads where there are traffic tie-ups to as great an extent as possible when a route is activated.

No
The system will not avoid roads where there are traffic disruptions.

NOTE
When the system has been started, it can take up to 15 minutes before all traffic information for the area has been downloaded.

During your trip

The alternatives On or Off are used to set the system to either continuously search for a better route or to follow the currently selected one. If a better route is found, it will be presented (see the illustration).

On
The system will suggest a different route if there are better alternatives, for instance, if traffic information indicates a tie-up along the originally selected route.

Off
The system will not search for a better route in the event of a traffic problem.

Messages along the route
In the following illustration, On has been selected and a traffic disruption has occurred along the route.

If there is another route that will enable you to avoid the disruption, the difference in distance and driving time will be displayed on the screen:

Changed traffic situation. Use new route?: 200ft longer, 00h 09m faster.

• Select Yes or No.

Yes
A new route will be calculated around the affected area.

No
The system will continue to guide you through the area affected by the traffic disruption.

Show new route
This displays a map showing the new route.
Selecting information

Traffic information selections

Select the type of traffic information to be displayed and taken into consideration when the system calculates a route.

Show all
All traffic information will be displayed.

Hide all
No traffic information will be displayed.

Show selected
1. Press Right to select among the symbols.
2. Use Up or Down to select which traffic information symbols (traffic messages) that will be displayed on the map.
3. Activate/deactivate with Right or Left.

4. Confirm the settings with ENTER.

The scroll bar on the right side of the screen indicates that there are more options in the list than can be displayed at one time.

Traffic signs on the map

- Accident
- Contraflow (two-way traffic, single lanes in each direction)
- Diversion (Detour)
- Information
- Narrow road
- Parking information
- Congestion
- Roadwork
- Slippery road
- Other hazard
Reading traffic messages

To read traffic messages on the screen:

1. Press ENTER in map mode for the Shortcut Menu:

2. Select the sub-menu Read traffic msg with < or > and press ENTER, see page 45.

3. Scroll forward or back with < or > and press ENTER for detailed traffic information (see the example in the illustration).

4. Press BACK to return to the current messages again.

> The number of messages available for the map area is displayed on the screen.

Detailed information about the traffic disruption is also displayed. The extent of the disruption is shown at the top of the screen. If the traffic disruption is on the currently selected route, the distance to the disruption will be displayed.

The information provided will vary, for example, duration, limitations in speed, vehicle width and height, roads effected, etc., depending on the content of the message.

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

Station search/selecting a station for traffic information

The system searches automatically for traffic information, but it is also possible to select a specific station.

Search station
• Press ENTER to search for existing stations.

Select station
1. Press ENTER to select among the existing stations.

2. Select a station by using A or V and press ENTER.

3. Press BACK to return to the previous screen.

Current station
Shows the station that is currently selected for traffic information.

Reset to default
Return to the default factory settings for stations.
• Press >, select OK and press ENTER.
SYMBOLES ON THE MAP
05 Symbols on the map

Road numbers and Points of interest

Road numbers
Local and interstate road numbers are shown on the map.

Points Of Interest (POI)
Choose to show all or none of the points of interest or select the ones to be displayed.

Settings ➔ Map options ➔ POI selection ➔ Show selected

1. With POI selection marked, press ➔ – a menu will open.
2. Mark Show selected and press ➔ – a new menu will open.
3. Points of interest marked by an X will be displayed on the map – move forward in the list and remove the Xs with ➔ for the symbols that are not to be displayed.
4. Finish by pressing ENTER when all of the choices have been made – and navigate back out of the menu by pressing BACK.

NOTE
The symbol for a certain point of interest may vary from one state or province to another.

Select the points of interest to be shown on the map.

- Airport
- Amusement park
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Text</th>
<th>Symbol</th>
<th>Text</th>
<th>Symbol</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Commuter rail station" /></td>
<td>Commuter rail station</td>
<td><img src="image" alt="Hamlet" /></td>
<td>Hamlet</td>
<td><img src="image" alt="Park &amp; ride" /></td>
<td>Park &amp; ride</td>
</tr>
<tr>
<td><img src="image" alt="Compressed natural gas" /></td>
<td>Compressed natural gas</td>
<td><img src="image" alt="Historical monument" /></td>
<td>Historical monument</td>
<td><img src="image" alt="Parking garage" /></td>
<td>Parking garage</td>
</tr>
<tr>
<td><img src="image" alt="Concert hall" /></td>
<td>Concert hall</td>
<td><img src="image" alt="Hospital" /></td>
<td>Hospital</td>
<td><img src="image" alt="Parking" /></td>
<td>Parking</td>
</tr>
<tr>
<td><img src="image" alt="Convention/exhibition center" /></td>
<td>Convention/exhibition center</td>
<td><img src="image" alt="Hotel" /></td>
<td>Hotel</td>
<td><img src="image" alt="Pharmacy" /></td>
<td>Pharmacy</td>
</tr>
<tr>
<td><img src="image" alt="Doctor" /></td>
<td>Doctor</td>
<td><img src="image" alt="Ice skating" /></td>
<td>Ice skating</td>
<td><img src="image" alt="Place of worship" /></td>
<td>Place of worship</td>
</tr>
<tr>
<td><img src="image" alt="Dry cleaner" /></td>
<td>Dry cleaner</td>
<td><img src="image" alt="Library" /></td>
<td>Library</td>
<td><img src="image" alt="Police station" /></td>
<td>Police station</td>
</tr>
<tr>
<td><img src="image" alt="Embassy" /></td>
<td>Embassy</td>
<td><img src="image" alt="Liquid petroleum gas" /></td>
<td>Liquid petroleum gas</td>
<td><img src="image" alt="Post office" /></td>
<td>Post office</td>
</tr>
<tr>
<td><img src="image" alt="Ferry terminal" /></td>
<td>Ferry terminal</td>
<td><img src="image" alt="Lookout" /></td>
<td>Lookout</td>
<td><img src="image" alt="Public sport airport" /></td>
<td>Public sport airport</td>
</tr>
<tr>
<td><img src="image" alt="Fire brigade" /></td>
<td>Fire brigade</td>
<td><img src="image" alt="Major companies" /></td>
<td>Major companies</td>
<td><img src="image" alt="Recreation area/Park" /></td>
<td>Recreation area/Park</td>
</tr>
<tr>
<td><img src="image" alt="Gas station" /></td>
<td>Gas station</td>
<td><img src="image" alt="Marina" /></td>
<td>Marina</td>
<td><img src="image" alt="Rest area" /></td>
<td>Rest area</td>
</tr>
<tr>
<td><img src="image" alt="Golf course" /></td>
<td>Golf course</td>
<td><img src="image" alt="Movie theater" /></td>
<td>Movie theater</td>
<td><img src="image" alt="Restaurant" /></td>
<td>Restaurant</td>
</tr>
<tr>
<td><img src="image" alt="Government office" /></td>
<td>Government office</td>
<td><img src="image" alt="Museum" /></td>
<td>Museum</td>
<td><img src="image" alt="School" /></td>
<td>School</td>
</tr>
<tr>
<td><img src="image" alt="Grocery store" /></td>
<td>Grocery store</td>
<td><img src="image" alt="Night life/Music club" /></td>
<td>Night life/Music club</td>
<td><img src="image" alt="Shopping center" /></td>
<td>Shopping center</td>
</tr>
</tbody>
</table>
## 05 Symbols on the map

### Road numbers and Points of interest

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Ski resort]</td>
<td>Ski resort</td>
</tr>
<tr>
<td>![Sports complex]</td>
<td>Sports complex</td>
</tr>
<tr>
<td>![Stadium]</td>
<td>Stadium</td>
</tr>
<tr>
<td>![Swimming pool]</td>
<td>Swimming pool</td>
</tr>
<tr>
<td>![Theater/opera]</td>
<td>Theater/opera</td>
</tr>
<tr>
<td>![Toll booth(^A)]</td>
<td>Toll booth(^A)</td>
</tr>
<tr>
<td>![Tourist attraction]</td>
<td>Tourist attraction</td>
</tr>
<tr>
<td>![Tourist information]</td>
<td>Tourist information</td>
</tr>
<tr>
<td>![Train station]</td>
<td>Train station</td>
</tr>
<tr>
<td>![University/college]</td>
<td>University/college</td>
</tr>
<tr>
<td>![Volvo retailer]</td>
<td>Volvo retailer</td>
</tr>
<tr>
<td>![Winery]</td>
<td>Winery</td>
</tr>
<tr>
<td>![Zoo]</td>
<td>Zoo</td>
</tr>
</tbody>
</table>

\(^A\) Cannot be selected as a destination
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 meter). 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.
When calculating a route, 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, freeways, and ferries, 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 car’s position on the map is incorrect after the car 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.

It may be necessary to drive ten to fifteen miles, and make a number of turns before the system will function optimally.

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 with 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. Maps information is periodically developed and updated. Additional information is available from your Volvo retailer.

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 system indicates the route on which I am already driving when I have selected Start guidance or Detour
The system cannot find a better alternative to the current route.

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. Switch off the VNS system and the ignition. 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 pointer. The system will automatically guide you to the final destination even if you drive past intermediate destinations.

**Why do I not receive all traffic messages?**
The function is not available, not fully developed, or is not available on all markets. Also, check that the correct settings have been made in *Route options*.

**The system’s map information is not up-to-date**
Contact your Volvo retailer for updated map information.
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