

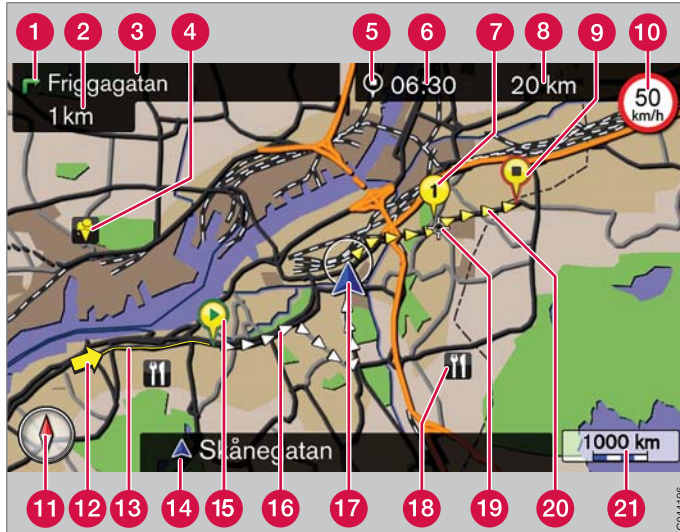


VOLVO S60, V60 & XC60

ROAD AND TRAFFIC INFORMATION SYSTEM (RTI)



OPERATING MANUAL



Text and symbols on screen

- 1 Event at next guidance point
- 2 Distance to next guidance point
- 3 Stored location
- 4 Name of next road/street
- 5 Symbol for destination/final destination
- 6 Calculated arrival time at final destination
- 7 Planned route waypoint
- 8 Calculated remaining distance to destination
- 9 Planned route final destination
- 10 Maximum permitted speed - at car's current position (17)
- 11 Compass
- 12 Traffic information
- 13 Section covered by traffic information
- 14 Current road/street name - at car's current position (17)
- 15 Planned route start
- 16 Completed planned route
- 17 The car's current position
- 18 Facility (Restaurant)
- 19 Next guidance point
- 20 Planned route
- 21 Map scale

Road type	Colour
Motorway	Orange (Green may appear)
Primary road	Red
Smaller primary road	Brown
Ordinary road	Dark grey
Local road	Dark green



ROAD AND TRAFFIC INFORMATION - RTI

Volvo's navigation system is a traffic information and road navigation system developed by Volvo. The system guides you to a destination and gives information along the route. It informs of situations that can affect the drive, such as accidents, road works and shows alternative routes.

It is possible to create an itinerary, search for points of interest (POI) along the route, store special places etc. The system displays the car's exact position and in event of a wrong turning always corrects to guide you to the destination.

You will see just how intuitive it is to use. Try it out. In order to get along with the system we recommend that you familiarise yourself with the information in this manual.

By facilitating accessibility and shortening driving distances, Volvo's navigation system contributes to a better environment.

License agreement NAVTEQ DATABASE

For information for the end user - see page 70.



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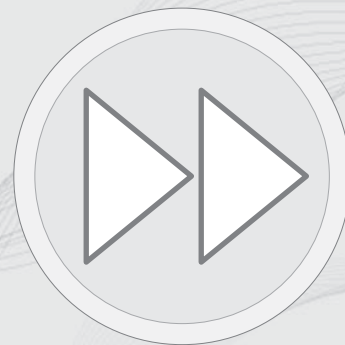
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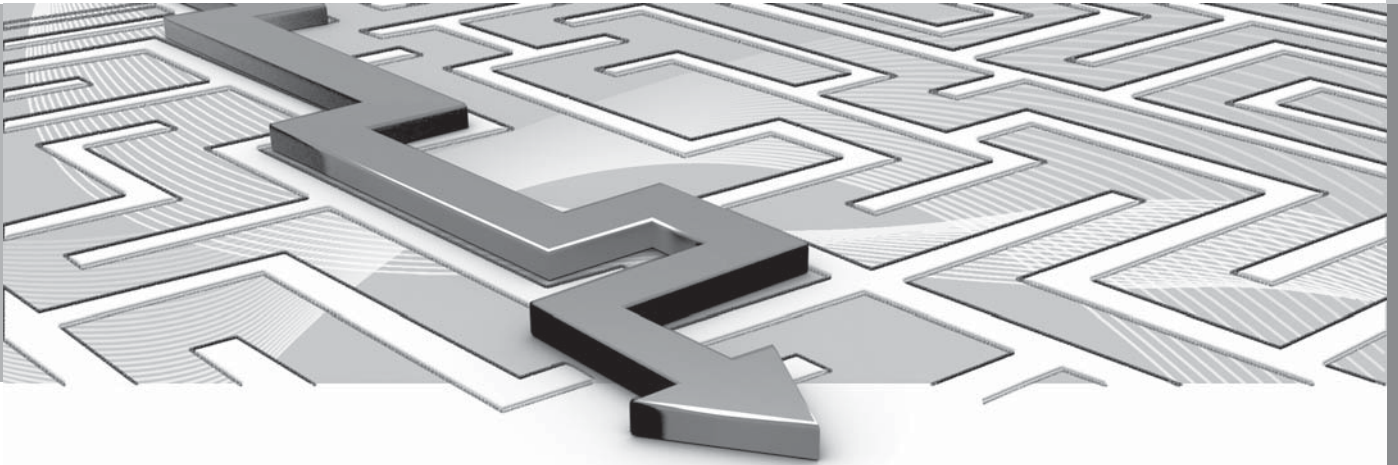


Quick start..... 8



01

QUICK GUIDE





Quick start

Activating the system

The car's electrical system must first be activated:

1. Press the remote control key into the ignition switch and activate key position **I** (see the owner's manual for the car).
2. If the navigation system does not start within a few seconds - press the centre console's **NAV** button.

Disclaimer

When the navigation system is started the display screen shows a text which must be confirmed:

- Press the **OK** button.

For more information, see page 13.

Controls

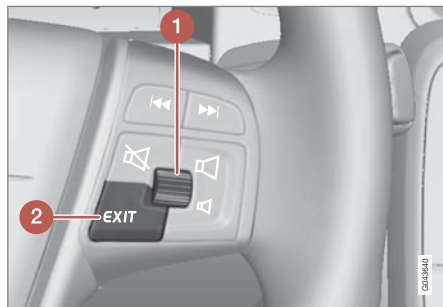
Volvo's GPS navigator can be operated in several ways:

- With the steering wheel's right-hand keypad
- With the controls in the centre console
- With a remote control
- With voice recognition.

For a functional description, see page 17.

Main commands

The steering wheel keypad is used in the following two examples to give guidance to an Address or Facility.



- Scroll/select in the menus with the **Thumbwheel** (1).
- Activate selections with a brief **press** on the **Thumbwheel** (abbreviated in the following example with "+ **OK**").
- Go back in menus and/or undo using **EXIT** (2).

Centre console controls

If the centre console keypad is used instead of the steering wheel keypad then the following applies:

Keypad in the steering wheel	Centre console
Turn the Thumbwheel	Turn TUNE
Press the Thumbwheel	Press OK
Press EXIT	Press EXIT

Guidance to a street address

Display screen/ menu	Action
If the display screen does not show a map image, proceed as follows:	Press the centre console button NAV .
Map	Press OK to bring up a menu.
Navigation menu	Mark Set destination + OK .
Set destination	Mark Address + OK .
Address:	Mark City: + OK .



Quick start

Display screen/ menu	Action
Daisy wheel - see page 23.	Turn the Thumb-wheel to select characters and enter it by clicking OK - a list of options emerges on the display screen.
Daisy wheel	Select the appropriate district from the list + OK .
Navigation menu	Mark Add to itinerary + OK .
Itinerary	Mark Start guidance + OK .
Map	Guidance starts - follow the instructions.

The navigation system calculates the route, travel time and distance to the selected destination. The system provides guidance and instructions on junctions etc.

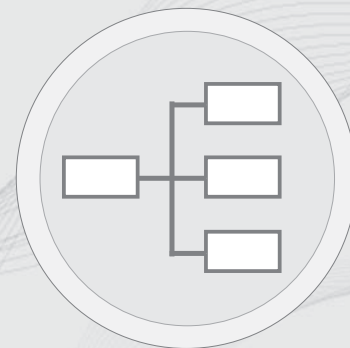
If there is a deviation from the planned route outline during the journey then the system automatically calculates a new route outline.

Guidance to a facility (POI)

Display screen/ menu	Action
If the display screen does not show a map image, proceed as follows:	Press the centre console button NAV .
Map	Press OK to bring up a menu.
Navigation menu	Mark Set destination + OK .
Set destination	Mark Point of interest (POI) + OK .
Point of interest (POI)	Select e.g. Near the car + OK .
Latest 5 POI types	Select e.g. All types + OK .
All POI types	Select e.g. Airport + OK .
Results list	Select the desired option from the list + OK .
Navigation menu	Mark Add to itinerary + OK .

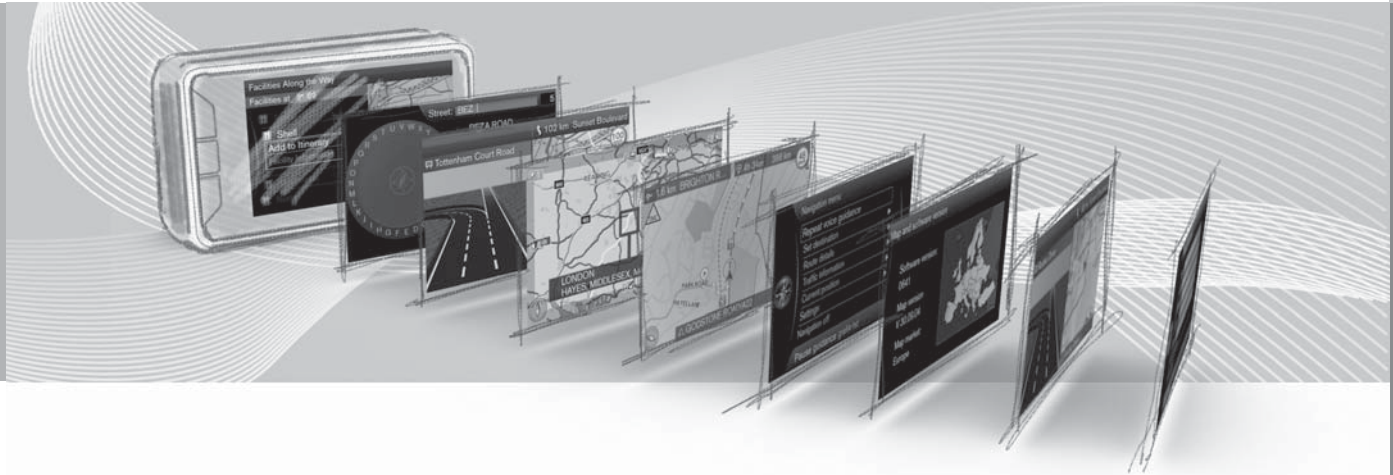
Display screen/ menu	Action
Itinerary	Mark Start guidance + OK .
Map	Guidance starts - follow the instructions.

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02

GET TO KNOW YOUR NAVIGATION SYSTEM





02 Get to know your navigation system

Manual

General information on the manual

There is a quick guide for the user who wants to get started right away - see page 8.

For a more in-depth description of the operation and options as well as the selection of settings to the destination, the recommendation is to read the manual in combination with practical use.

Menu options/Search paths

All options that can be selected on the display screen are marked in this manual with slightly larger and grey-shaded text, e.g. **Set destination**.

Search paths in the menu tree are stated as e.g.:

Set destination → **Address** → **City**:

(Set destination > Address > City:)

English text

All text in the manual's illustrations are in English.

In order to facilitate the user's understanding of the images and their menu options with search paths connected to the manual's text, the English word for the image is in brackets immediately after the intended text/phrase in

the language of the manual. See examples in the preceding section - but without image.

Special text

NOTE



NOTE

Texts marked with NOTE give advice or tips that facilitate use of features and functions for example.

Footnote

There is information in the manual that is added as a footnote at the bottom of the page or in direct association with a table. This information is a supplement to the text to which it refers via the footnote number/letter.

Options

All types of options/accessories are marked with an asterisk (*).

In addition to standard equipment, this manual also describes options (factory fitted equipment) and certain accessories (retrofitted extra equipment).

The equipment described in this owner's manual is not available in all cars - they have different equipment depending on adaptations

for the needs of different markets and national or local laws and regulations.

In the event of uncertainty over what is standard or an option/accessory - contact a Volvo dealer.

Changes in the manual

The specifications, design features and illustrations in this owner's manual are not binding.

We reserve the right to make modifications without prior notice.

© Volvo Car Corporation

Before starting

General

The Volvo navigation system uses reference system WGS84, which gives longitude and latitude positions.

The car's navigation system can be used without a destination being selected.

Map mode

Upon start-up, the navigation system shows an on-screen text message, which must be confirmed by pressing the **OK/MENU** button. The text is as follows:

- **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 judgement. Always concentrate on your driving by keeping your eyes and mind on the road.**

Then a map of the current geographic area is shown where the car is symbolised by a blue triangle.

Settings

The system is supplied with default settings, but starts with the settings last used.

There is a function that resets all settings to default settings simultaneously, see page 51.

On/Off

On

1. Push the remote control key into the ignition switch.
2. The screen activates automatically in the key position **I** (see the car's manual).
3. Press the centre console's button **NAV** if the navigation system does not start automatically.
4. Press **OK** when the "Start up" text appears on-screen, see previous section "Map mode".

The system may need a few seconds in order to detect the position and movement of the car.

Off

The navigation system is shut down when the remote control key is removed from the ignition switch.

The Navigator cannot be switched off manually, but always works in the background after

the "Start up" sequence. If the navigation system is not to be switched on:

- Press **EXIT** at the "Start up" sequence, see section "Map mode".

i NOTE

The navigation system is also available when the engine is switched off. When the battery level gets too low the system switches off.

Demo (simulated guidance)

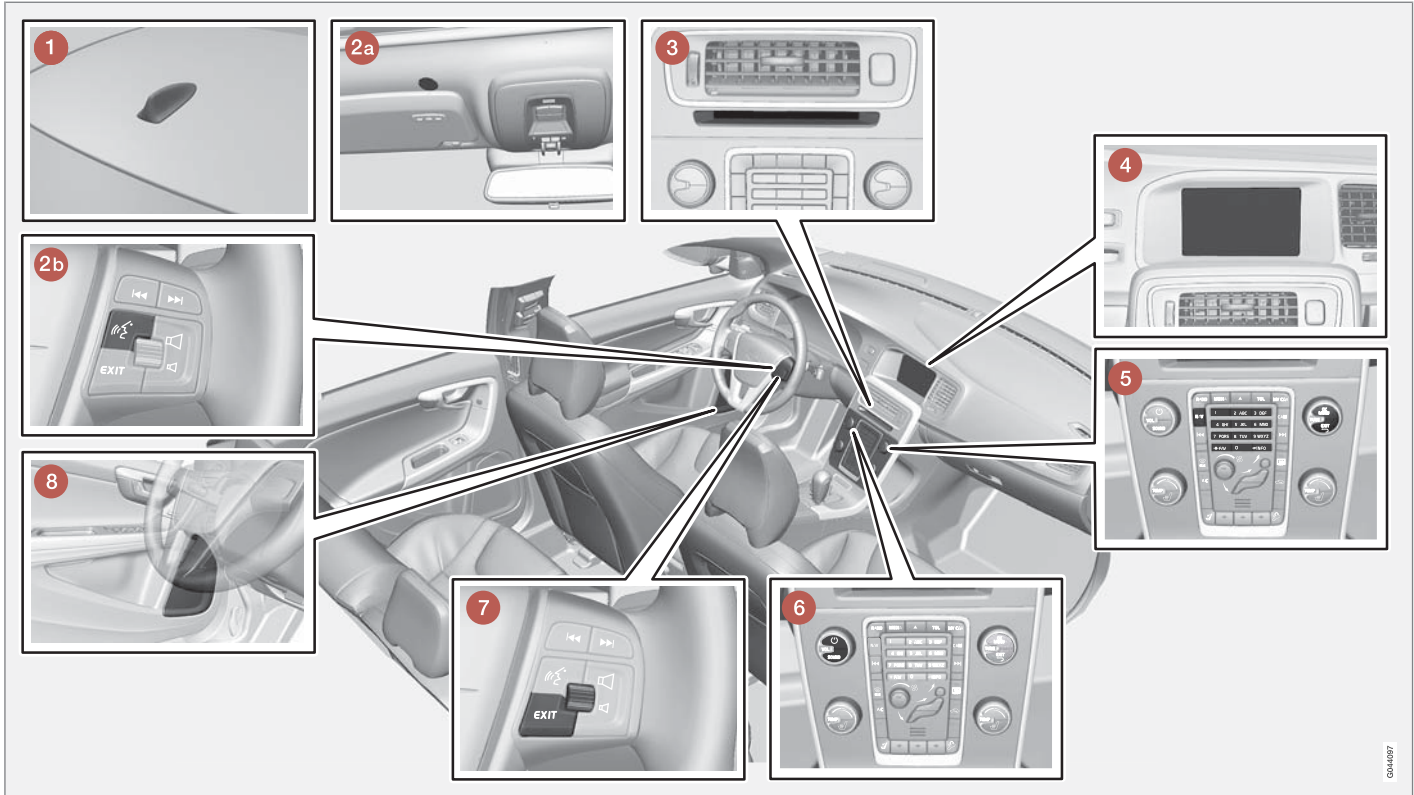
To see how the system works, guidance to an indicated destination can be simulated on-screen - see page 52.



02 Get to know your navigation system

Overview

02



NOTE: The picture is schematic - some details may vary depending on car model and market.

004497



1 Antenna for GPS

The antenna is integrated into the roof antenna.

2 Voice recognition

Some procedures in the Navigation system can also be voice controlled. The microphone (2a) is fitted in the ceiling and the activation button (2b) is located in the right-hand keypad on the steering wheel. For more information, see page 19.

3 Main unit

The main unit is fitted in and behind the centre console and includes the following functions:

- Calculating the position of the car
- Calculating the route to the specified destination
- Handling traffic information
- Voice guidance
- DVD player

The GPS receiver and the receiver for traffic information (TMC) are integrated into the main unit.

Positioning

The car's speed sensor and a gyro calculate the current position and the direction of travel

of the car using signals from the GPS satellite system.

The advantage of this concept is that the Navigation system registers and calculates the route outline even if the GPS signal is temporarily lost, e.g. when driving through a tunnel.

Traffic information

TMC (Traffic Message Channel) is a standardised coding system for traffic information. The receiver automatically searches for the correct frequency. Reception takes place via the FM antenna.

NOTE

TMC is not available in all areas/countries. The system's coverage area is under constant construction and updating may sometimes be necessary.

For information about updating map data and software, see page 25.

4 Screen

The screen displays maps and provides detailed information on route type, distance, menus etc. For information screen care, see page 25.

5 Keypad, centre console

As an alternative to the steering wheel keypad, the centre console's numerical keypad can be used in combination with buttons **OK/MENU**, **TUNE** and **EXIT** to scroll between different menu options, confirm options or go back in menus, see page 17.

6 Volume control and IR receiver

Use the audio unit's volume control during ongoing voice messages to adjust the volume, see page 27. The volume can also be adjusted in the menu system.

Point the remote control towards the centre console during use - its IR receiver is located there.



02 Get to know your navigation system

Overview

7 Keypad, steering wheel

A keypad is located on the right-hand side of the steering wheel. Use it to scroll between different menu options, to confirm selections or to move back in menus, see page 17.

8 Speakers

Navigation system audio uses the front loudspeakers.

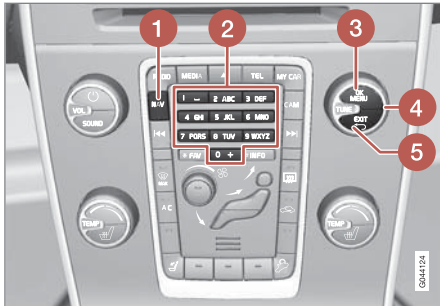
Controls

General information about controls

The navigation system is operated by controls on the centre console, the steering wheel keypad or using a remote control*. The three different control unit keypads have common functions but differ in appearance and operation. The design may also vary depending on market.

The system can also be controlled by voice recognition using specific commands - see page 19.

Centre console



Centre console keypad.

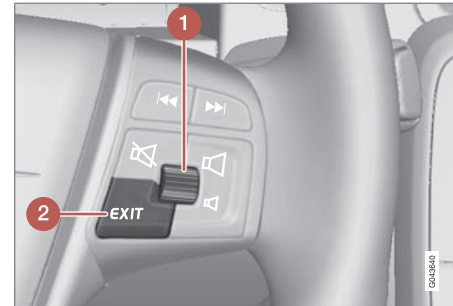
- 1 **NAV** activates the GPS navigator on the display screen. The button also switches between On/Off to display e.g. climate sys-

tem status on the top and bottom section of the display screen.

- 2 **Numerical keys** enter information for address and name search, and scroll on the map, see pages 23 and 28.
- 3 Press **OK/MENU** once to confirm or activate a selection. Described in this manual with the "OK button" or "+ OK".
- 4 Turn **TUNE** to scroll between different menu options. Described in this manual with the "TUNE knob".
- 5 Press **EXIT** once to go back in the menu structure or undo a selection.

Steering wheel

The steering wheel's keypad is available in several versions depending on market and selection of audio system.



Steering wheel right-hand keypad.

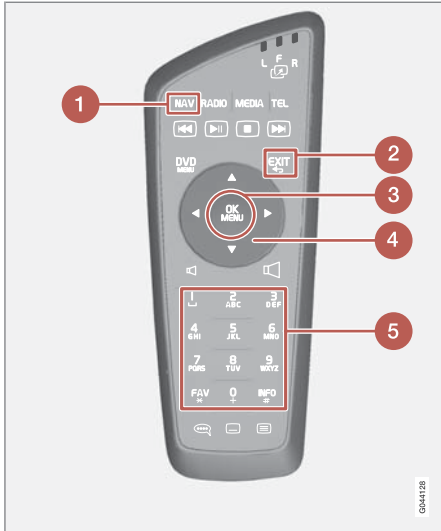
- 1 **Turn** the thumbwheel to scroll between different menu options.
- 1 **Press** the thumbwheel to confirm/activate a selection.
- 2 **EXIT** goes back in the menu structure or undoes a selection.

Remote control

The remote control can be used to control/operate several different functions in the car - only the related navigation system is described here.

Point the remote control at the centre console during use.

Controls



Remote control keypad.

- 1 **NAV** activates the GPS navigator on the display screen. The button also switches between On/Off to display e.g. climate system status on the top and bottom section of the display screen.
- 2 **EXIT** goes back in the menu structure or undoes a selection.

- 3 **OK/MENU** confirms or activates a selection. Described in this manual with the "OK button" or "+ OK".
- 4 **Arrow keys** move the menu cursor.
- 5 **Numerical keys** enter data for address and name search, and scroll on the map.

NOTE

If the remote control does not work try replacing the batteries - it uses AAA-/R03 batteries.

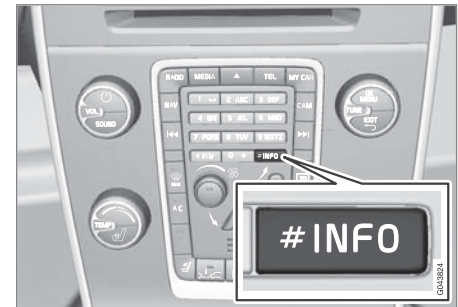
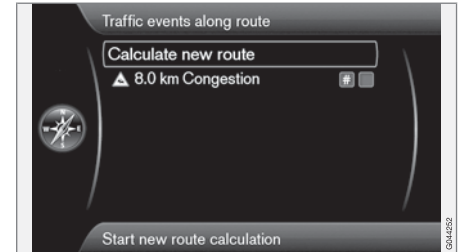
WARNING

Store the remote control and other similar objects in one of the storage compartments - in event of hard braking and/or collision such objects can cause personal injury or other damage.

Voice recognition

See the next section.

Additional information



Sometimes there is more information available than can fit on the menu bar - the line then ends with the character: "#".

To view the rest of the information:

- Press the **INFO** button.



Voice control

General about Voice control

Voice control means that certain functions in the navigation system can be activated by the spoken word.

The Voice commands offer comfort and help the driver to avoid distraction - instead the driver can concentrate on driving and focus attention on the road and traffic situation.

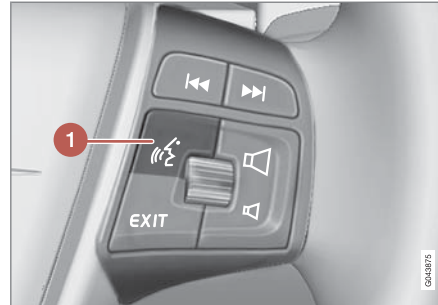
WARNING

The driver always holds overall responsibility for driving the vehicle in a safe manner and complying with all applicable rules of the road.

The Voice control uses the common microphone of the hands-free system - the driver receives responses to the Voice control through the vehicle's loud speakers.

The microphone is positioned in the ceiling in front of the driver for optimal take-up of the driver's speech - it can however be disturbed by/pick up loud voices from passengers.

Handling



Keypad in steering wheel.

- 1 Button for voice control

Activate the system

- One short press on the steering wheel button (1) activates the system - it is then ready to accept a command.

Think of the following when using the Voice control system:

- For commands - Speak after the tone with a normal voice at a normal tempo
- The car's doors, windows and sunroof must be closed
- Avoid background noise in the passenger compartment.

NOTE

If unsure of which command to use the driver can say "**Help**" - the system then responds with several different commands that can be used in the relevant situation.

The voice command can be interrupted by:

- not speaking
- saying "**Cancel**"
- holding the steering wheel button for voice control for a couple of seconds
- press **EXIT**
- press one of the centre console buttons **NAV, RADIO, MEDIA, MY CAR** or **CAM**.

Use the voice command

Entering information in the navigation system using the voice command is very simple because the screen lists the frequently occurring commands to be used in the relevant situation.

Start

A voice command is started as follows:



02 Get to know your navigation system

Voice control

1. Press the steering wheel button for Voice control - the display lists examples of possible commands.
2. Select "**Navigation**" for example and state the word clearly and in normal conversational tone.
3. The screen shifts to the option "**Repeat instruction/Navigation go to address/Itinerary**" - Select and say "**Itinerary**".
4. Etc....

Note that greyed out text and text in brackets is **not** included in the spoken command.

NOTE

For various reasons, it is not possible to select all menus and options that are visible on the screen:

- **Selectable** - menu lines/options are clear and white.
- **Not selectable** - menu lines/options are matt and grey.

The command can be given in several ways

The command "**Navigation go to address**" can be stated as:

- "**Navigation > Go to... > Address**" - Say "**Navigation**", wait for the system response in the form of suitable on-screen

options. Continue by saying, for example, "**Go to...**" and conclude with "**Address**".

or

- Say the whole command in one sequence - "**Navigation go to address**".

Tips

Some good advice:

- Give a command by first pressing the voice button and then speaking naturally after the tone.
- To respond to the Voice control system - speak after the tone at the end of the question.
- To interrupt a voice session - hold the voice button in.
- The driver can obtain help during a dialogue by saying "**Help**" after a listening tone.
- The dialogue with the system can be speeded up - Interrupt the system's speech with a short press on the button's voice button, wait for a tone and then start talking.
- If the driver is concentrating on driving, there is no need to make an immediate response to the question.

- The system asks for an action a maximum of three times - if the driver does not respond the dialogue is ended.
- Avoid speaking while the system is responding - the system is not disturbed by this but the driver may miss information stated by the system

Example

Here are some normal commands:

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

NOTE

A complete list of quick commands is in **MY CAR**-menu - Go to **Settings** → **Voice settings** → **Voice command list** → **Navigation commands.**



Help functions and settings

In the menu system **MY CAR** there are programs where the driver can practice the different functions in the Voice control system. To describe the menu system **MY CAR** - see the car's normal instruction manual.

The better the driver knows the Voice control system, the more comfortable the driver will be using the functions. Practicing using the integrated practice programs is therefore recommended.

NOTE

The practice programs are only accessible when the car is stationary with the hand-brake applied.

Introduction to voice control

The program **Voice tutorial** gives the driver step by step instructions in the use of the Voice control system and is a simple way of becoming familiar with the methods of giving the commands.

The program can be started in two ways:

- Press the steering wheel button for voice control and say "**Voice tutorial**".

or

- Activate the program in **MY CAR** - Go to **Settings** → **Voice settings** → **Voice tutorial**.

Voice training

The program **Voice training** teaches the Voice control system to recognise the driver's voice and speech pattern. It is also possible to create a second user profile - an advantage if more than one person is likely to use the car/system regularly.

- The voice training is started in **MY CAR** - Go to **Settings** → **Voice settings** → **Voice training** → **User 1** or **User 2**.

NOTE

The menu option **Default setting** can be changed to **User 1** first after a lesson in **Voice training** has been completed.

More settings in MY CAR

- **User profile** - 2 x different user profiles can be set. Go to **Settings** → **Voice settings** → **Voice user setting**. Tick one of the options **Default setting**, **User 1** or **User 2**.
- **Voice volume** - Go to **Settings** → **Voice settings** → **Voice output volume** and select the desired level.

The system's voice volume can also be adjusted using the centre console **TUNE** knob when the system is speaking.

Language

The voice control system is under constant development and at time of printing the following languages were available:

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

To change the language - Go to **Settings** → **System options** → **Language** and select.



The languages that are included in the Voice control system have this icon in the language list.

Language dependent user profile

The voice control system only understands the language set in **System options**.



02 Get to know your navigation system

Voice control

Say that user profile **User 1** is stored by a Swedish speaking driver with the system set in Swedish. If the driver changes the car language to English the user profile **User 1** will no longer be selectable because the system now only understands, and expects English speech - instead the option **Default setting** becomes active.

To improve the system's understanding of the driver's English speech the solution is to teach and store the driver's English speech in **User 2** with the system set to English (to have both variants available) or to replace the Swedish language profile in **User 1** with an English profile.



Keyboard

Entering and selecting options



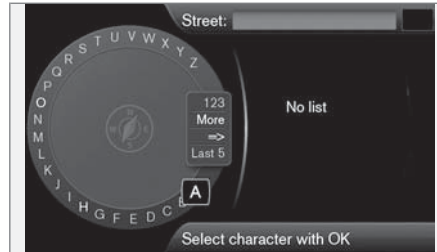
Screen view with text field or optional text.

This navigation system uses a "daisy wheel" to enter specific information, e.g. type of facility, place/town, area/country, address, street or post code.

Activate an option

After marking a desired function/menu bar using the **thumb wheel** or the **TUNE** knob, press the **thumb wheel/OK** to see the next level of functions/options.

Enter as follows



The daisy wheel.

1. Mark a text field.
2. Press **OK** to call up the "daisy wheel":
3. Select the characters using the **thumb wheel/TUNE** knob and enter them by pressing **thumb wheel/OK**.

Numerical keyboard

Another way of entering characters is using the centre console's buttons **0-9**, ***** and **#**.

When **9** is pressed, a bar appears with all characters¹ under the buttons, e.g. **W**, **x**, **y**, **z** and **9**. Quick press the move/"loop" cursor through these characters.

- Stop using the cursor on the desired character to select it - the character is shown on the enter line.
- Delete/change using **EXIT**.

More options



NOTE

Muted characters cannot be selected in combination with the relevant entered characters.

In the daisy wheel's inset menu there are further options that have more characters and digits.

- **More** (More) + **OK** - alternative characters appear in the wheel.
- **123** + **OK** - digits appear in the wheel.
- **=>** + **OK** - the cursor moves to the list on the right-hand side of the screen where selections using **OK** can be made.
- **Last 5** (Last 5) + **OK** - lists the most recent searches. Mark one of them + **OK**.

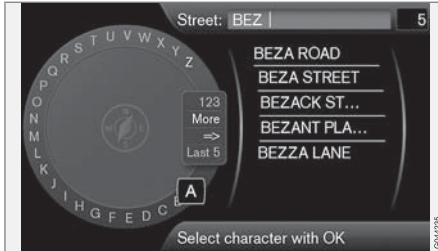
¹ The character for each button may vary depending on market/state/language.



02 Get to know your navigation system

Keyboard

List of options



List that matches entered characters.

The digit **5** in the screen's top right-hand corner indicates that the list contains 5 possible options that match the entered letters **BEZ**.

No list

An empty list and the characters ******* in the upper right-hand corner's digit window, mean that the available options with current entered characters are more than 1000 - when the amount is less, the current options are shown automatically.

To reduce the number of options in the list:

- Enter more characters on the text line.



DVD disc, screen

DVD contents

DVDs with updated map data and related enhanced information are being developed continually. Contact a Volvo dealer for information on the latest issue.

NOTE

Map data does not have 100 percent coverage in all areas/countries.

The system's coverage area is under constant construction and updating may sometimes be necessary.

See also www.volvocars.com/navi for further information on maps etc.

Map areas

The car's map system varies depending on market. The following main maps are available:

- Australia & New Zealand (Pacific)
- Europe
- Middle East
- North America
- South Africa
- South America
- Southeast Asia
- Russia.

Updating the map data

The DVD with the update must be transferred over to the car's navigation system. This is done with the car's normal DVD player.

1. Start the engine.
2. Insert the DVD with the update in the DVD player. An update may be distributed over several discs - in which case, eject the discs in the logical/numerical order.
3. The display screen shows what the update consists of and the approximate time the process takes - Answer **Yes** or **No** to the question of whether updating should be carried out.
4. After having selected **Yes + OK** - Follow the instructions on the display screen.

NOTE

Updating of map data can in some cases also introduce new functions to the system, which are not described in this manual.

Interrupted update

If the update is not finished when the engine is switched off then the process continues the next time the engine is started, from where it was interrupted.

NOTE

The navigation system cannot be used during an update.

Care of DVD discs

Handle DVD discs with care.

When they are not in use they must be stored in their packaging. Avoid storing them in damp, high temperature, direct sunlight or dusty surroundings.

Screen care

Clean the screen with a soft, lint-free rag, lightly moistened with a mild window cleaning agent.

IMPORTANT

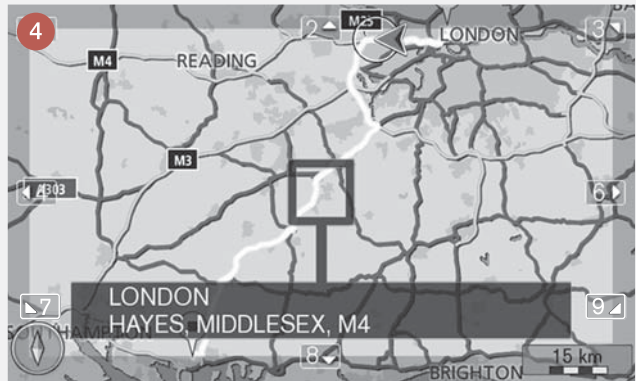
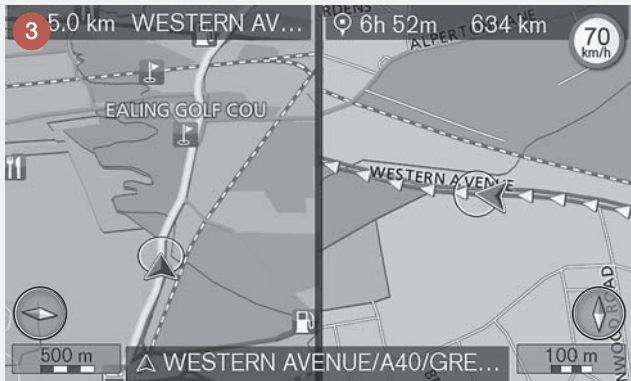
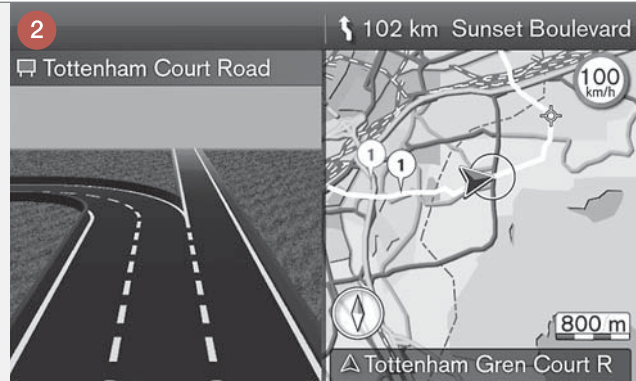
Do not place any objects in front of the GPS navigator's display screen - the surface could then be scratched. Mobile phones can also interfere with the display screen's function.



02 Get to know your navigation system

Maps, road types and compass

02



NOTE: The images are schematic - some details may vary depending on software version and market.

0242206

Maps, road types and compass

Map image of current position

The appearance of the screen image depends on geographic position and the settings made, e.g. map scale, facilities selected for display etc.

Explanations for the text, signs and symbols that may appear on the display are available on the front of the cover.

- 1 Facilities along the motorway.
- 2 Detailed junction map. The left-hand section of the display enlarges the navigation at the next junction. The situation is always supplemented with a voice message, see next section.
- 3 Two maps can be selected as display mode. The screen shows the same map image but in two different scales. 2D or 3D display can also be selected - see page 48.
- 4 Scroll mode - see page 28.

Voice guidance

After a destination has been entered and the car approaches a junction or exit, a voice message sounds stating distance and type of the next manoeuvre. At the same time a detailed map of the junction is displayed. The voice guidance message is repeated closer to the junction.

The volume can be adjusted with the audio unit's volume button (during ongoing voice message).

To repeat a message:

- Press twice on the **OK** button.

Also see **Settings** → **Guidance options** → **Voice guidance** - see page 50.

NOTE

In certain cases (for example if using a Bluetooth connected mobile phone) the voice message is replaced by a ping noise.

To select male or female voice and language:

- Go to the menu system in **MY CAR** - see the car's manual. The voice volume can also be adjusted there.

Compass



The red tip of the compass needle points north and the white end points south.

Go to **Settings** → **Map options** → **Compass** to select whether the compass is to be displayed or not - see page 49.

Menus

Menu system

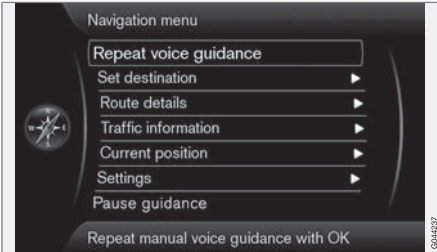
All menus and options are presented in the relevant section of the manual.

NOTE

For various reasons, it is not possible to select all menus and options that are visible on the screen:

- **Selectable** - menu lines/options are clear and white.
- **Not selectable** - menu lines/options are matt and grey.

Main menu



The main menu is at the top of the navigation system's menu tree and is the first menu to greet the user after the start-up disclaimer and map mode.

To the main menu from map mode

- Press the **OK** button.

To the main menu from another menu

- Press **NAV** and then **OK**.

or

- Press **EXIT** repeatedly until it is shown.

Back to the Main menu

Regardless of where the user is in the menu structure, the Main menu can always be accessed by pressing once or more on the **EXIT** button.

Back to the map

There is an easy way to quickly bring up the map on the screen again, no matter how deep into the menu system the user is:

- Hold in **EXIT** for a few seconds.

Scroll menu



In Scroll mode a crosshair is moved over the map image with the centre console's numerical keys.

Activating Scroll mode in normal map mode

- Press one of the numerical keys **0-9**.

Scrolling

- Press one of the numerical digit keys **1-2-3-4-6-7-8-9** - a directional arrow is shown in the margins combined with the number that will be used to scroll the map in the desired direction.

Zooming out/in

- Turn the **TUNE** knob.

Exiting from Scroll mode

- Press **EXIT**.

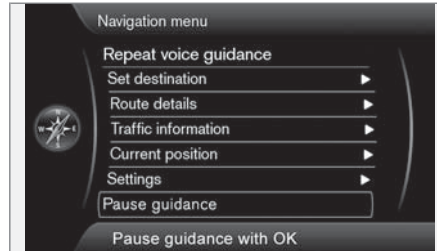


Crosshair

Press **OK** once to show a menu for the point on the map, which the centre of the crosshair points to:

- **Add to itinerary** - Adds the selected point to the itinerary.
- **POIs nearby** - Allows you to search/view facilities around the selected location.
- **Read traffic message** - Allows you to view traffic messages¹ around the selected location.
- **Information** - Shows information available about the selected location.
- **Store location** - Allows you to store the selected location in the memory. (Opens the menu **Set destination** → **Stored location** → **Edit** - see page 39).

Pause guidance



Pause guidance

(Pause guidance)

With the cursor on **Pause guidance** + **OK** the guidance can be switched off temporarily after which neither visual nor acoustic guidance is given - at the same time the menu-bar changes to **Resume guidance**. However, the system's car symbol continues to show the car's actual position on the map.

Resuming guidance

- Mark **Resume guidance** + **OK**.

¹ The service is not available for all areas/markets/states.



02 Get to know your navigation system

Menu tree in three levels

Shown here are three of the menu tree's levels. Several of the menus at level three have further sub menus - these are described in more detail in respective sections.

02

Repeat voice guidance	page 27
Set destination	page 36
→ Address Area: City: Street: Number: Junction: Add to itinerary Information	page 36

→ Point of interest (POI) By name Near the car Along the route Around point on map Along the street	page 37
→ Stored location Add to itinerary Information Edit Sort by Delete	page 38
→ Previous destination Add to itinerary Information Store Delete Delete all	page 39

→ Return trip Start guidance Add to itinerary Edit itinerary	page 40
→ Select point on map	page 40
→ Latitude & longitude	page 40
→ Postcode	page 41
Route details	page 42
→ Itinerary Start guidance Add to itinerary Edit itinerary	page 42
→ Avoid	page 43
→ Next destination	page 43



Menu tree in three levels

→ Route instructions	page 44
→ Map of entire route	page 44
→ Map of remaining route	page 44
→ Start demo or → Stop demo	page 52
Traffic information^A	page 56
→ Read traffic message	page 58
→ Traffic events along route or → Traffic events ahead	page 60
→ Avoided traffic events	page 60
Current position	page 45

Settings	page 46
→ Traffic information^A Traffic message	page 46
→ Route options Route type Route proposals Customise route Route learning Reset route learning	page 46

→ Map options Map colours Show dual map mode Single map settings Right map settings Left map settings POI on map Compass Show current road name Show speed limits Show information fields	page 48
→ Guidance options Voice guidance Voice output volume Street names in voice guidance Time of arrival format	page 50



02 Get to know your navigation system

Menu tree in three levels

02

→ System options GPS information Map version: Map loading progress	page 50
→ Reset navigation settings	page 51
→ Delete all user data	page 51
Pause guidance or Resume guidance	page 29

^A Not available in all areas/markets/states.



Specify a destination.....	36
Itinerary.....	42
Current position.....	45
Settings.....	46
Simulation.....	52



03

PLANNING YOUR TRIP



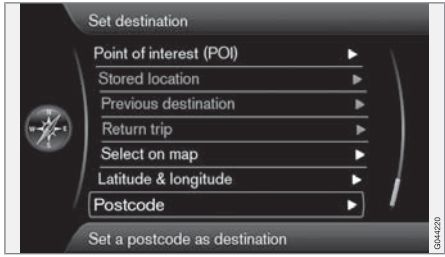
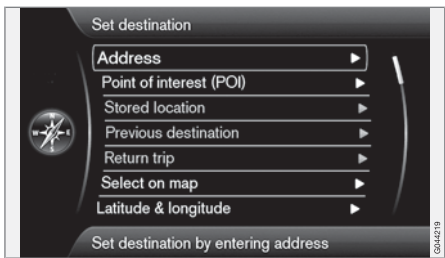


03 Planning your trip

03

Specify a destination

Address



Set destination → Address

(Set destination > Address)

There are several different ways to program a destination.

It is sufficient to simply specify a district/city and start the journey - it leads to the centre of the district/city.

If a destination's latitude and longitude are known then these can be entered.

See page 23 for information on how characters are written/entered into the system's various text fields.

i NOTE

The definition of city or area can vary from country to country, and also within the same country. In some cases a metropolitan area is indicated - in others an individual suburb.

City or street



The cursor first rests on **Street** (Street).

How to search and locate a destination:

1. With the previous image view on the display screen - Press **OK** to activate the pre-set text box.
2. Enter the street's name **Street:** (Street) with the "daisy wheel" (see page 23) and then select a desired **City:** (City).
3. Or **City:** (City) + **OK** and start by entering it.

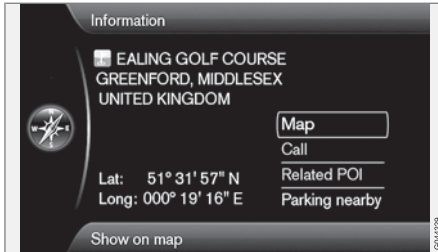
The following search criteria can be used:

- **Area:** (Area) - Enter a country.
- **City:** (City) - Enter a district/city.
- **Postcode:** - Under **City:** the search can also be made using a post code.
- **Street:** (Street) - Enter the street address.
- **Number:** (Number) - Select one of the street's house numbers.
- **Junction:** (Junction) - Select a destination based on where the two streets/roads intersect.
- **Add to itinerary** (Add to itinerary) - Select + **OK** to add the address to the itinerary.
- **Information** (Information) - Select + **OK** to view information about the selected destination.



Specify a destination

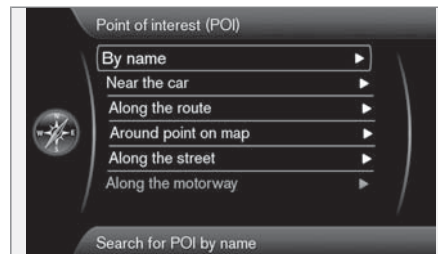
More about Information



Select an address/street + **OK** - then the following can be selected:

- **Map** (Map) - Shows where on the map the location can be found - sometimes with additional information.
- **Call!** (Call) - Calls the facility if a telephone number is given.
- **Related POI** (Related POI) - Lists the facilities associated with the current/selected facility.
- **Parking nearby** (Parking nearby) - Lists the parking where appropriate around the selected location, with distance.

Facilities



Set destination → Point of interest (POI)

(Set destination > Point of interest – POI)

The system contains a large number of searchable facilities which can be specified as destinations. The list of desired facilities can be shortened by specifying which facility/facilities the current search relates to:

- Select **Type:** (Type) and specify which facilities should be covered by the search (it is the same approach as described on page 49).

To select which facilities should be permanently visible on the map, go to the menu **Settings → POI on map** - see page 49.

All searches are made in the manner described in the previous section **City or street**:

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

With name



By name (By name)

In addition to searching with main group, such as Restaurant, the company name of the facility can also be used, e.g. "Peppes Bod-ega". The procedure is the same as when searching with Address, see page 36.

When searching with **Name:** with e.g. "London Airport", all combinations with "London" will be

¹ Requires connected mobile phone.



03 Planning your trip

Specify a destination

shown when "Lo" is entered. The more letters you input the more specific the reply.

A search with "Lo" also produces reply alternatives such as "Restaurant **Lou** Trivalou" for example, as alternatives containing several words separated by spaces are also included in the search.

NOTE

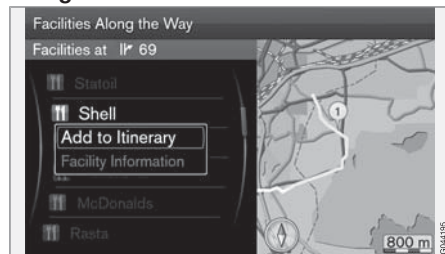
There are subcategories for restaurants in order to simplify the search.

Around the car

Near the car (Near the car)

Search of facility refers to the area around the car's current position.

Along the route



Along the route (Along the route)

Search of facility refers to the area along the set itinerary.

Around point on map

Around point on map (Around point on map)

Search of facility is made with the Scroll function crosshair - see page 28.

- The scroll map is shown - place the crosshair at the desired location + **OK**

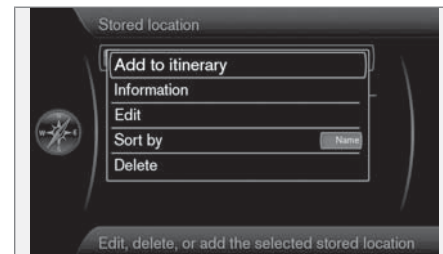
Along the street



Along the street (Along the street)

Search of facility refers to the area along a specific street/road.

Stored location



Set destination → Stored location

(Set destination > Stored location)

The driver can store a large number of his/her own locations in the system. They can then be used to quickly draw up/supplement an itinerary.

Storing a location

To store a chosen location:

1. Use the Scroll function (see page 28) and select the location to be stored.
2. Press **OK** to display the "crosshair" menu.
3. Select **Store location** + **OK** - now the location is stored and is included in the list **Stored location**.



Specify a destination

Mark a stored location in the list + **OK** and choose between the following options/headings:

Add to itinerary

Add to itinerary (Add to itinerary)

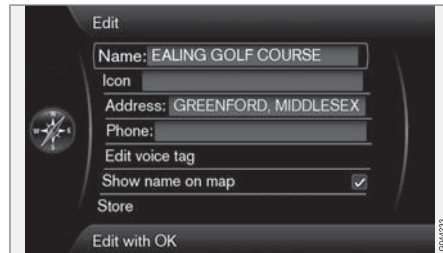
Opens the same window as for **Set destination** → **Address** → **Add to itinerary** - see page 42.

Information

Information (Information)

Opens the same window as for **Set destination** → **Address** → **Add to itinerary** → **Information** - see page 37.

Edit



Edit (Edit)

Opens selected "Stored location" and allows you to change/update the following:

- **Name** (Name) - Enter a name for the location.
- **Icon** (Icon) - Select the symbol to represent the current location.
- **Address** (Address) - Opens the map to adjust the location's geographical position.
- **Phone:** (Phone) - Enter a telephone number.
- **Edit voice tag** (Edit voice tag) - Record own sound². Follow the on-screen instructions.
- **Show name on map** (Show name on map) - Untick if the location name is not to be displayed on the map.
- **Store** (Store) - Save changes with **OK**.

Sort by

Sort by (Sort by)

Select whether stored locations are to be sorted by:

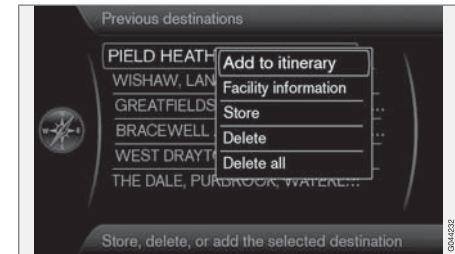
- **Name**
- **Icon**
- **Distance**
- **Chronological**

Clear

Delete (Delete)

- Delete a marked stored location.

Previous destinations



(Previous destination)

Previously used destinations are stored here. Mark one of them and then select between:

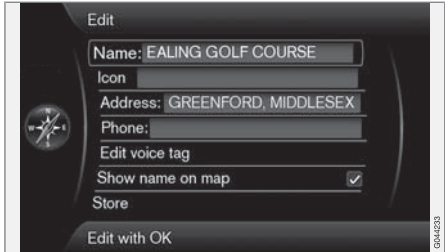
- **Add to itinerary** (Add to itinerary)
- **Information** (Information)
- **Store** (Store) - see more about this option after the next image.
- **Store** (Delete)
- **Delete all** (Delete all).

² Only in combination with audio system "High Performance" or "Premium".



03

Specify a destination



The **Save** option presents this Edit menu.

The option **Store** (Store) leads to the same Edit menu as for **Stored location** → **Edit**.

For more information - see page 38.

- To add/change information for the destination - Mark **Store** (Store) + **OK**.

Return trip

Return trip (Return trip)

Goes back to the itinerary starting point. Can be selected anywhere/anytime in the itinerary.

Search via point on map



Set destination → Select point on map

(Set destination > Select on map)

Shows maps with current location pointed out by a cursor.

- Turn **TUNE** to change the scale.
1. Move the crosshair using the centre console's numerical buttons: **6** moves to the right, **8** moves down, etc - see page 28.
 2. When the desired location has been found - Press **OK**.

Search via Latitude/Longitude



Set destination → Latitude & longitude

(Set destination > Latitude & Longitude)

Select destination with GPS coordinates:

1. Place the cursor on the character to be changed and press **OK** - the character window becomes "active".
2. Enter a digit using the centre console's numerical buttons (or turn **TUNE**) - finish with **OK** or place the cursor on the next character - previous character window is "deactivated".
3. Move the cursor to the next character location to be changed and repeat.
4. With the cursor in both windows to the far right, (or turn **TUNE**) the letters for the car-



Specify a destination

dinal points - **N = 6**, **S = 7**, **W = 9** and **E = 3** are entered.

- When both coordinates are entered - mark **Add to itinerary** + **OK** to add the location to the itinerary.

Add to itinerary

Add to itinerary (Add to itinerary)

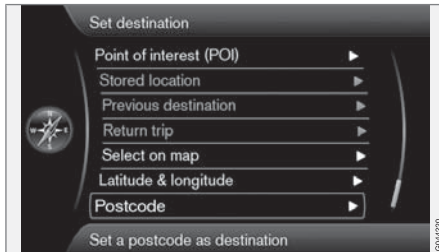
Add the location of the selected coordinates on the map to the itinerary.

Information

Information (Information)

Shows information available about the location.

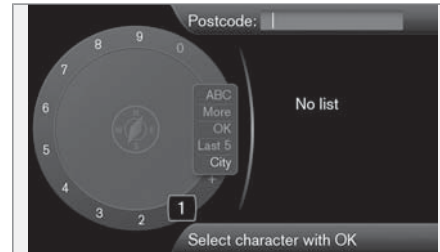
Post code



Postcode (Postcode)

Search destination by post code:

- Mark **Postcode:** (Postcode) + **OK** to view the "daisy wheel".



- Select characters with the **TUNE** knob and type/enter them by pressing **OK**. (Or type/enter characters using the centre console's numerical buttons - see page 23).

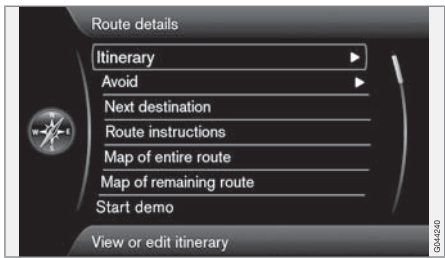
i NOTE

Presentations of post codes may differ between different markets/areas.



Itinerary

Menu overview



Route details

(Route details)

The system handles one itinerary (Itinerary) at a time with a maximum of 8 intermediate destinations.

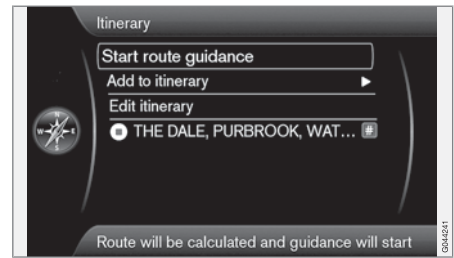
The first specified destination is the journey's Final destination - subsequent input destinations are Intermediate destinations.

i NOTE

The most recently added destination is always Way point-1 - previous Way points are increased a step: "Old" Waypoint-1 becomes Waypoint-2, etc.

If a new order is required - Go to **Route details → Itinerary, Mark a way point** and **→ Move in list.**

Enter an itinerary



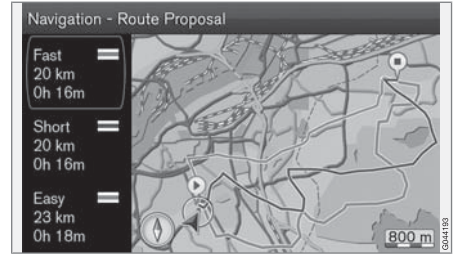
Route details → Itinerary

(Route details > Itinerary)

Draw up an itinerary with several stops to avoid entering destination after destination during your trip.

One final destination with up to 8 intermediate destinations can be specified.

Start guidance



Results with "Route proposal 3" ticked. (Start route guidance)

Cursor on **Start guidance** + **OK** activates current itinerary.

If the display of 3 alternative itineraries is preset then the driver can select one of them, see the menu **Settings → Route options → Route proposals**, page 47.

Add to itinerary
(Add to itinerary)

Adds an intermediate destination. Gives the same menu as in "**Set destination**" - see page 36.

Edit itinerary
(Edit itinerary)

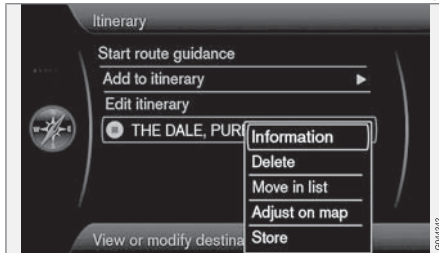
Gives the options:



Itinerary

- **Clear itinerary** - deletes the current itinerary.
- **Route options** - opens a shortcut to **Settings** → **Route options** - see page 46.

Intermediate destinations in the itinerary

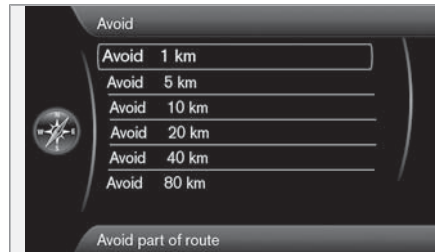


By selecting intermediate destination + **OK** each intermediate destination in the itinerary can be updated.

- **Information** (Information) - Full name and address, and Latitude and Longitude. In addition, a facility can be Called up and any Facilities around the location and Car parking in the vicinity can be seen.
- **Delete** (Delete) - deletes the intermediate destination.
- **Move in list** (Move in list) - changes the order in the itinerary.

- **Adjust on map** (Adjust on map) - shows the location on the map with a crosshair. Another location there be scrolled forward and selected with **OK**, see more about the Scroll function on page 28.
- **Store** (Store) - opens the menu **Set destination** → **Stored location** → **Edit** - see page see page 39).

Avoid



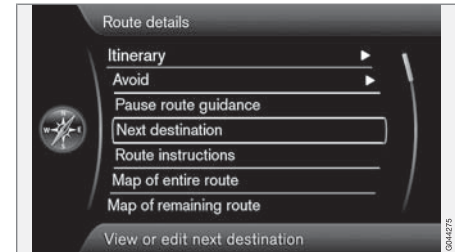
Route details → Avoid

(Route details > Avoid)

A distance in the itinerary can be deselected here. The alternative distances are calculated from the car's current position. The system then selects another route.

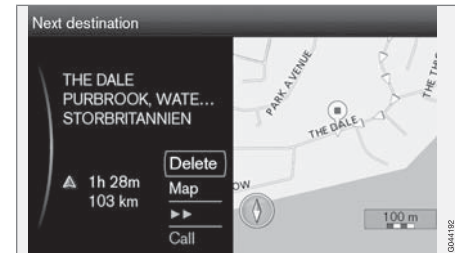
- Select the desired option + **OK**.

Next destination



Route details → Next destination

(Route details > Next destination)



Shows the next intermediate destination's position on the map, name, address, estimated time of arrival and distance there. Also gives the options:

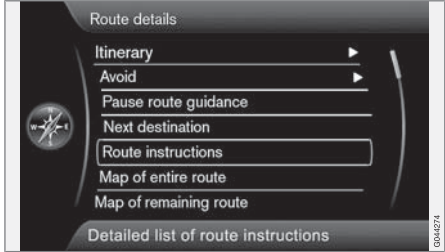


03 Planning your trip

Itinerary

- **Delete (Delete)** - deletes the current intermediate destination and shows the next one.
- **Map (Map)** - shows the position on the map in the Scroll menu, see page 28.
- **>>** - scrolls to the next intermediate destination in the itinerary, in a loop.
- **Call (Call)** - calls up the facility if possible.

Route instructions



Route details → Route instructions

(Route details > Route instructions)



The itinerary's waypoints are listed here.

Map of entire route



Route details → Map of entire route

(Route details > Map of entire route)

The whole itinerary is shown here - scaled down to fit on the display screen.

Otherwise, the same functions as in the Scroll menu, see page 28.

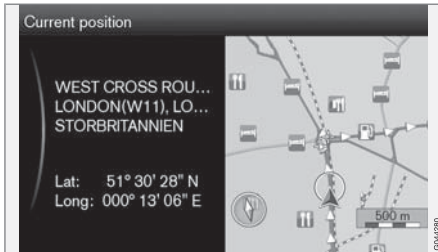
Map of the remaining route

Route details → Map of remaining route

(Route details > Map of remaining route)

Shows screen image similar to the one in the previous section, but here only with the itinerary's remaining distance from the car's current position.

Otherwise, the same functions as in the Scroll menu, see page 28.

**Current position****Where am I?****Current position**

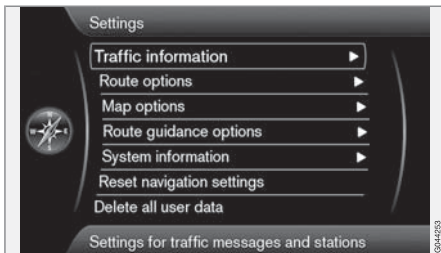
(Current position)

Displays a map with the car's current position and information on the location, such as name and coordinates.



Settings

Traffic information

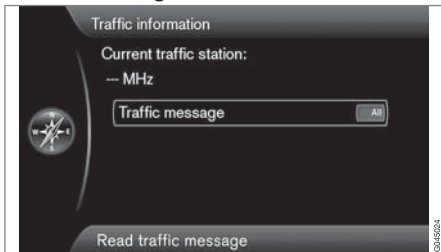


Settings → Traffic information

(Settings > Traffic information)

Further settings that affect traffic information can be made in addition to those described here - see page 60.

Traffic message



Traffic message (Traffic message)

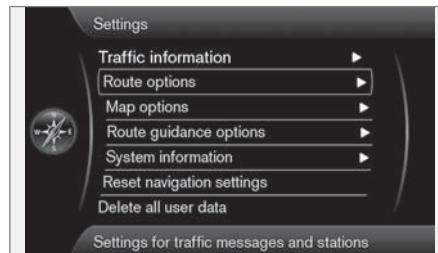
Certain traffic message sorting can be done here:

- **All (All)** - all reported traffic disruptions appear.
- **Major** - indicates, for example, closed roads due to accidents or other large/long-term disruption.
- **None** - indication of traffic problem off.

NOTE

This setting does not affect the calculation of a route.

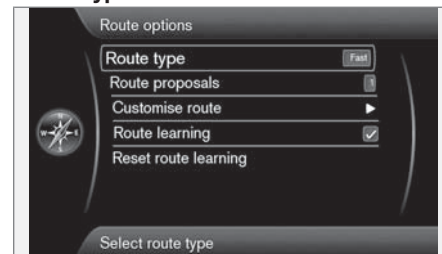
Route options



Settings → Route options

(Settings > Route options)

Route type



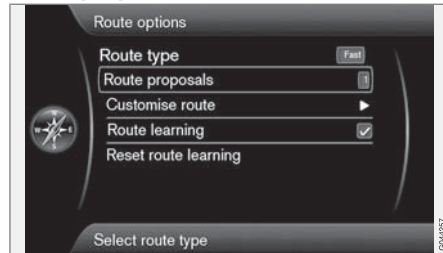
Route type (Route type)

Different types of itinerary can be selected here:

- **Fast (Fast)** - shortest possible travel time prioritised
- **Short** - shortest possible route prioritised
- **Easy** - minimum number of junctions and similar traffic systems prioritised.



Route proposals



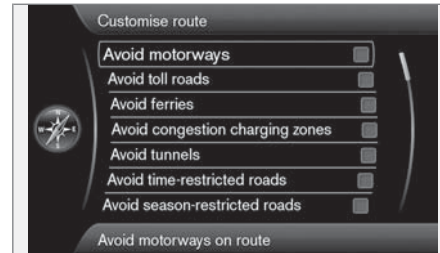
Route proposals (Route proposals)

At the command **Start guidance** there may be several similar suitable options. Select this if the driver should be asked in case there are several options to choose from:

- Select **1** if the navigation system is to select the most suitable option.
- Select **3** if the driver is to be able to select between the maximum 3 suggestions.

See more information on page 42.

Customise route



Customise route (Customise route)

Here you can deselect certain traffic suggestions. Tick to avoid the following element¹ along the route:

- **Avoid motorways** (Avoid motorways)
- **Avoid toll roads** (Avoid toll roads)
- **Avoid ferries** (Avoid ferries)
- **Avoid congestion charging zones** (Avoid congestion charging zones)
- **Avoid tunnels** (Avoid tunnels)
- **Avoid time-restricted roads** (Avoid time-restricted roads)
- **Avoid season-restricted roads** (Avoid season-restricted roads)
- **Avoid car trains**



NOTE

- If an itinerary is entered when these selections are made, there may be a certain delay after an alternative has been ticked/unticked because the travel plan must be recalculated.
- If tunnels, toll roads and motorways are deselected these are avoided to the greatest possible degree and only used if there are no other suitable alternative is available.

Route learning

Route learning (Route learning)

The basic condition is a stored itinerary. If the driver deviates from the itinerary and take a different route to the final destination than the system recommends, the system memorizes the driver's choice.

If the same itinerary is used again 2 times and the driver repeats the route choice, the system will instead show the path that the driver selected.

Ticked window means that a route that is driven 3 times is stored as itinerary instead of the original itinerary.

¹ Available options vary depending on market/area/state.



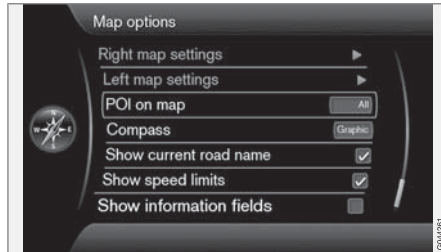
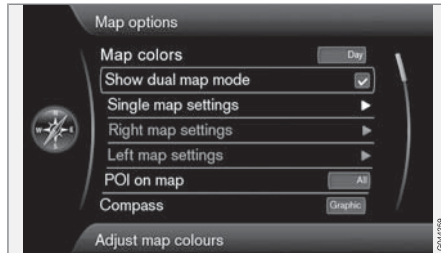
Settings

Reset route learning

Reset route learning (Reset route learning)

Erase driving history.

Map options



Settings → Map options

(Settings > Map options)

Map colours

Map colours (Map colors)

Choose between:

- **Automatic** - a light sensor detects whether it is day or night.
- **Day** (Day in previous image)
- **Night**

Single map settings

Single map settings (Single map settings)

- **Map orientation** - Select **Heading** or **North**.

North - the map always shows North at the top of the screen. The car symbol moves in the relevant direction on the screen.

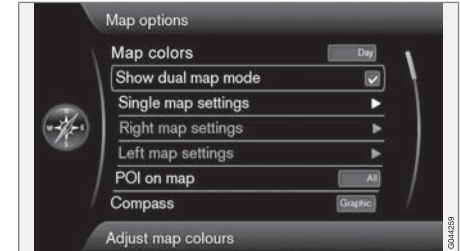
Heading - the car symbol is in the centre and always points up on the screen. The map image rotates under the car symbol in relation to how the road bends.

- **Map view** - Select **2D** or **3D**.

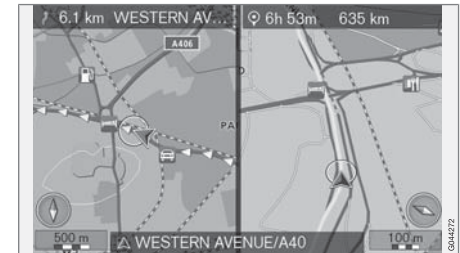
2D - car symbol and map image seen at right angles straight from above.

3D² - car symbol and map image seen obliquely from the side/above.

Show dual map mode



Show dual map mode (Show dual map mode)



The screen can display the map of the entire image area or the same map view in 2 different scales on each left and right half.

² Only if **Map orientation** > **Heading** is selected.



Settings

Select by ticking in the box by **Show dual map mode** + **OK** and **EXIT**.

Left map settings

Left map settings (Left map settings)

- **Map orientation** - Select **Heading** or **North**.
- **Map view** - Select **2D** or **3D**.

Right map settings

Right map settings (Right map settings)

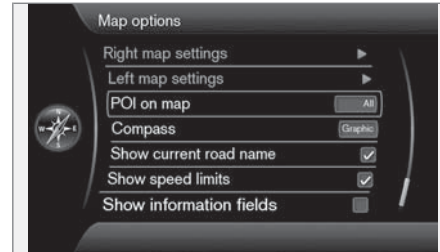
Same as for left map - see previous section.

Adjust the map scale in dual map mode

To view both maps with different map scales, they can be adjusted individually as follows:

1. Start from map view mode. Turn the **TUNE** knob to the left and right - one screen half is surrounded by a colour frame.
2. Press **OK** - selected screen half is now "active".
3. Turn the **TUNE** knob to adjust the scale.
4. Press **OK** again - done, the screen half is "deactivated".

Facility on map



POI on map (POI on map)

Tick the desired option for how many facilities are to appear on the map:

- **All (All)** - all facilities appear.
- **None** - no facilities appear.
- **Selected** - A menu with all facilities appears: Tick the facilities that you want to appear on the map.

Possible facilities are listed on page 64.

Compass

Compass (Compass)

Select the type of compass you want to appear on the map image:

- **Graphic** (Graphic)
- **Text** - compass direction (upwards on the display screen) is indicated by a letter, e.g. **N** for "North".
- **None**.

See more information about the compass on page 27.

Show current road name

Show current road name (Show current road name)

Ticked option shows the name at the bottom of the screen of the street/road the car is on.

Show speed limits

Show speed limits (Show speed limits)

Tick the option to see a traffic sign with current maximum permitted speeds, in the upper right-hand corner of the screen.

Show information fields

Show information fields (Show information fields)

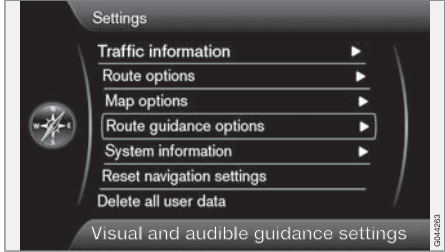
Tick the option to see information in the text field at the top and bottom of the screen.

Temporary change can also be made with the centre console's **NAV** button.



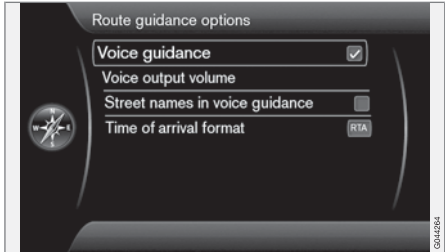
Settings

Guiding options



Settings → Guidance options

(Settings > Route guiding options)



Voice guidance

Voice guidance (Voice guidance)

If you want voice guidance - tick option **Voice guidance**. See more information on page 27.

Voice output volume

Voice output volume (Voice output volume)

The option shows a volume control on the screen that can be used to adjust the Voice guidance volume.

- Adjust using the **TUNE** knob + **OK**. See more information on page 15.

Street names in voice guidance

Street names in voice guidance (Street names in voice guidance)

Besides the voice guidance information about distance and direction, the function can also pronounce names of streets and roads. To activate the function:

- Tick the box after **Street names in voice guidance**.

Time of arrival format

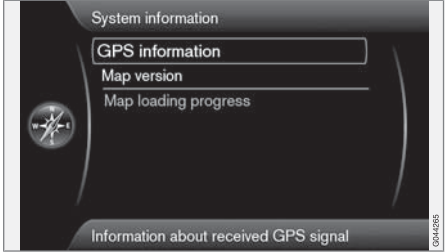
Time of arrival format (Time of arrival format)

Select the time to appear on the screen:

- **ETA** (Estimated Time of Arrival) - shows the estimated arrival time
- **RTA³** (Remaining Time of Arrival) - shows the remaining time until arrival.

³ Pre-selected by the system.

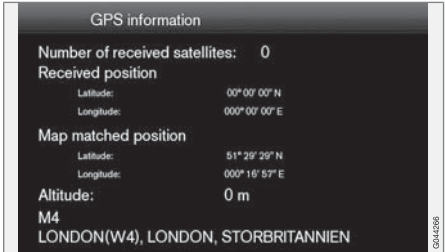
System information



Settings → System information

(Settings > System information)

GPS information



GPS information (GPS information)

The screen shows:



Settings

- **Number of received satellites:** (Number of received satellites)
- **Received position** (Received position)
- **Map-matched position** (Map matched position)
- **Altitude:** (Altitude)
- The geographic name of the current position.

Map version



Map version: (Map version)

The screen shows:

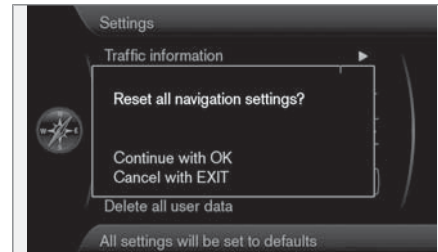
- **Software version:** (Software version)
- **Map version:** (Map version)
- **Map market:** (Map market)

Map download status

Map loading progress (Map loading progress)

When updating the map database, the progress of the update is shown here. See more information on page 25.

Reset navigation settings



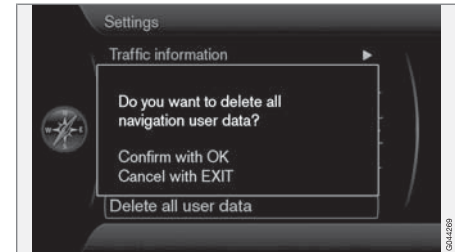
Settings → Reset navigation settings

(Settings > Reset navigation settings)

This function resets the system to default settings.

The menu option **Settings → Reset navigation settings**+ **OK** gives a screen image with the question **Reset all navigation settings?** (Reset all navigation settings?), **Press OK to continue. Press Exit to cancel.** (Continue with OK – Cancel with EXIT) - press **OK** to reset the settings to default settings or change with **EXIT**.

Erase all user information



Settings → Delete all user data

(Settings > Delete all user data)

The menu option **Settings → Delete all user data**+ **OK** gives a screen image with the question **Do you want to delete all navigation user data?** (Do you want to delete all navigation user data?), **Press OK to continue. Press Exit to cancel.** (Confirm with OK – Cancel with EXIT) - press **OK** to delete or change with **EXIT**.

The following settings are deleted with **OK**:

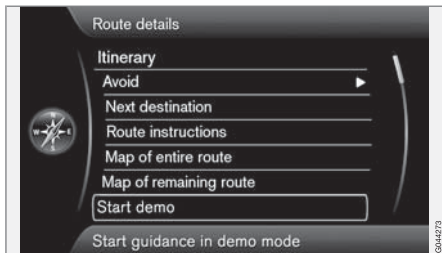
- all stored locations
- history for **Last 5**
- previous destinations
- route learning
- changed default settings.



03 Planning your trip

Simulation

Start demo



Route details → Start demo

(Route details > Start demo)

The journey specified in the itinerary is simulated here.

The system shows how the journey to the itinerary's specified destination will be carried out.

To exit the demo run:

- The previous menu option **Start demo** has switched to **Stop demo** - Select + **OK**.

NOTE

A destination must be specified for the demonstration to work.



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G000000

04

TRAFFIC INFORMATION



General

Display and reception

Transmitted traffic information is always received and presented - even if no destinations are given.

How traffic information should be presented can be set and changed in **Settings**, see page 46.

The presentation of traffic information also depends on how it is transmitted.

NOTE

Traffic information is not available in all areas/countries.

The transmission range for traffic information is being increased continuously.

Traffic symbols on the map



Symbol for traffic message/problems.

When there is at least one traffic message along the itinerary's path, a TMC symbol (TMC = Traffic Message Channel) appears in the map's upper left-hand corner.

The **scroll function** (see page 28) can be used to scroll through the traffic problem to see its precise position and nature.

Point on map

Traffic problems are marked with arrows, lines and frames:

	Traffic with disruption
	Traffic with disruptions in both directions
	Extent

Marking's colour

Colour of arrows, lines and frames indicates the degree of the disruption:

Black	Closed road
Red	Stationary traffic
Orange	Slow traffic
Yellow	General information

Type of traffic disruption

Shown here are examples of map symbols¹ that can mark different disruptions in the traffic:

	Accident
	Contraflow

¹ Map symbols may vary between different markets/states.



	Diversion
	Information
	Narrow road
	Parking information
	Congestion
	Roadwork
	Slippery road
	Other hazard
	Closed road

Extent



Certain traffic messages also contain information on the extent of the traffic obstruction.

On all scales up to 5 km - except the traffic message symbol, a line the same colour as the direction arrow is shown along the affected route. The length of the line corresponds to the extent (distance) of the traffic problem.

Size of area for traffic information

The scale of the map determines how great a quantity of traffic information can be shown - the larger the map area shown on the screen, the more information can be displayed.



Reading information

Message



Examples of, with arrows, selected traffic problems and their extent.

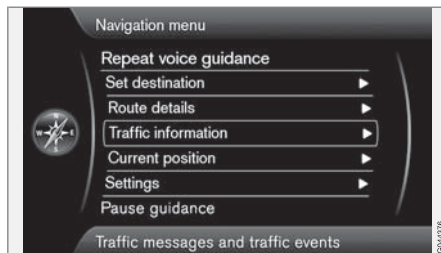


When the crosshair is placed over a traffic problem (indicated by an arrow along the road) you'll see a flashing frame with a traffic disruption symbol (e.g. slippery road) on the map.

To take advantage of the symbol's traffic information:

- Press **OK** and select **Traffic information + OK**.

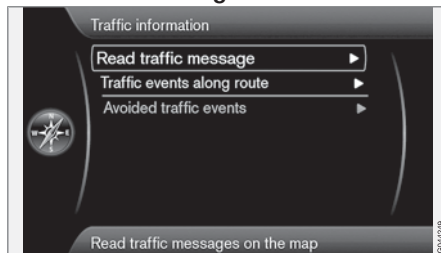
Traffic information



Main menu.

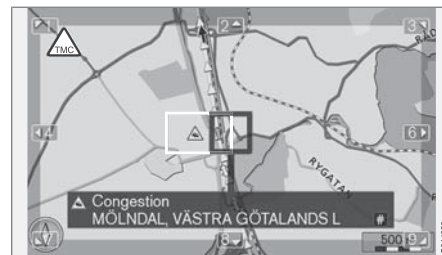
Traffic information (Traffic information)

Read traffic message



Read traffic message (Read traffic message)

With the cursor on **Read traffic message + OK** the following view is shown:



1. Scroll the crosshair to the traffic incident (coloured line/arrow parallel to the affected road section) about which information is required - a road sign with frame starts to flash out on the map.
2. Press **OK** - Following which, information like this is shown:



Detailed information on the traffic problem is linked to the symbol, and to the extent that

**Reading information**

information is available the following is also displayed:

- duration
- restrictions on speed, vehicle width and height
- roads affected.

If there are several traffic problems in the crosshair frame, then the problem closest to the centre of the crosshair is shown first after a pressing **OK** once.

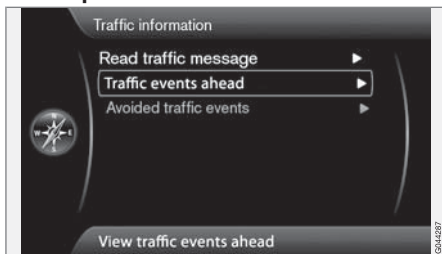
The upper section of the display screen can show e.g. "2/5" which means that the current information is number 2 of a total of 5 messages in the crosshair - the remaining messages can be scrolled to using short presses on **OK**.

- Return to map display with **EXIT**.

Handling traffic problems

To avoid traffic problems

Traffic problems ahead

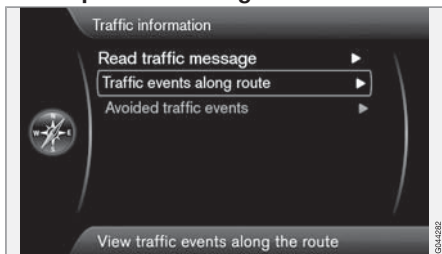


Menu bar 2 **without** itinerary added.

Traffic events ahead (Traffic events ahead)

Press **OK** on **Traffic events ahead** to list the current traffic problems.

Traffic problems along the route

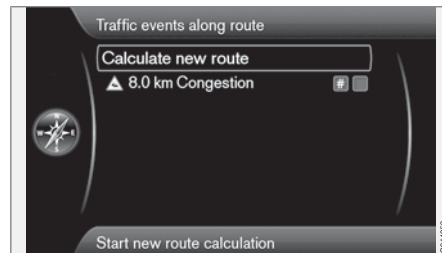


Menu bar 2 **with** itinerary added.

Traffic events along route (Traffic events along route)

This is the same menu bar as in the previous section, but **with** an activated itinerary - the menu bar now instead reads **Traffic events along route**. Here the system can be made to guide past the traffic disruption using a different route.

Press **OK** on the selected menu bar to list the traffic problems along the route:



List with 1 disruption on the itinerary's route.

The driver can avoid traffic problems by allowing the system to determine a different route. Proceed as follows:

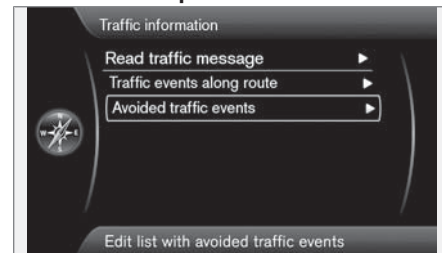
1. Select/highlight the traffic obstacle to be avoided + **OK** - the traffic problem is ticked.
2. If several obstacles need to be avoided - tick these too. A maximum of 15 can be selected.
3. Then select **Calculate new route** (Calculate new route) + **OK**.

The system then calculates a route that leads past the ticked traffic disruptions.

To obtain detailed information about a listed traffic problem:

- Select/highlight a traffic problem + **# INFO** - information about the traffic problem is shown.

Avoided traffic problems

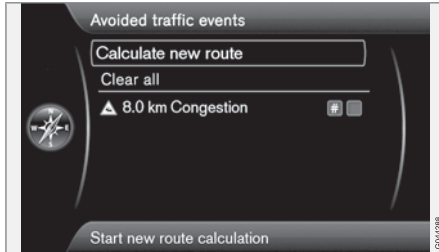


Avoided traffic events (Avoided traffic events)



Handling traffic problems

Ticked traffic problems from the previous section are listed here.



List with 1 editable traffic problem.

The following can be performed:

- **Clear all** (Clear all) - unticks all traffic problems.
- Select/highlight one of the traffic problems + **OK** - the traffic problem is unticked.
- Select/highlight one of the traffic problems + **# INFO** - detailed information with map image is shown on the display screen, see example on next page:



Detailed information - return to the menu using **EXIT**.

- Return to map display with **EXIT** or select **Calculate new route** (Calculate new route) + **OK** - the itinerary is adjusted with regard to the changes made.

Facilities..... 64



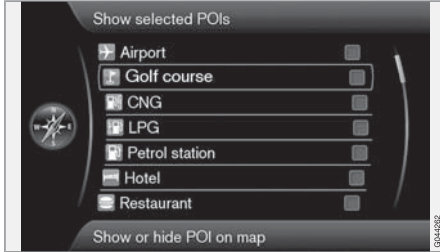
05

SYMBOLS ON THE MAP



Facilities

Specify which facilities are to be shown on the map or select **All** or **None** are to be shown - see page 49.



Pre-ticked facilities are shown on the map.

Settings → Map options → POI on map
→ Selected

(Settings > Map options > POI on map > Selected)

Proceed as follows:

- Select/mark facility with the **TUNE** knob - tick/untick using **OK**.

NOTE

- The symbol for a POI and the number of POIs can vary between different countries.
- New symbols may appear and others disappear in conjunction with updating the map data - one can scroll through all the POI symbols for the relevant map system under **Settings** in the menu system.

Shown here are examples of symbols for different facilities:

	Petrol station
	Petrol station with CNG (biogas)
	Petrol station with LPG
	Car wash
	Car workshop
	Car hire
	Motorsport facility

	Volvo dealer
	Parking
	Parking garage
	Parking, large vehicles
	Tourist information
	Historical monument
	Tourist attraction
	Ice skating
	Sport facility
	Exercise facility
	Ski facility
	Cinema
	Amusement park

Facilities

	Opera Theatre
	Bar Nightclub
	Animal park
	Restaurant
	Restaurant
	Restaurant, Chinese
	Restaurant, seafood
	Fastfood
	Coffee shop
	Shopping Centre
	Dry cleaners
	Kiosk
	Hairdresser

	Rest area
	Hotel
	Conference facility Exhibition grounds
	Train station Commuter railway station
	Airport
	Bus station
	Ferry
	Marina Marina
	Civic building Authority
	University University
	City centre City centre

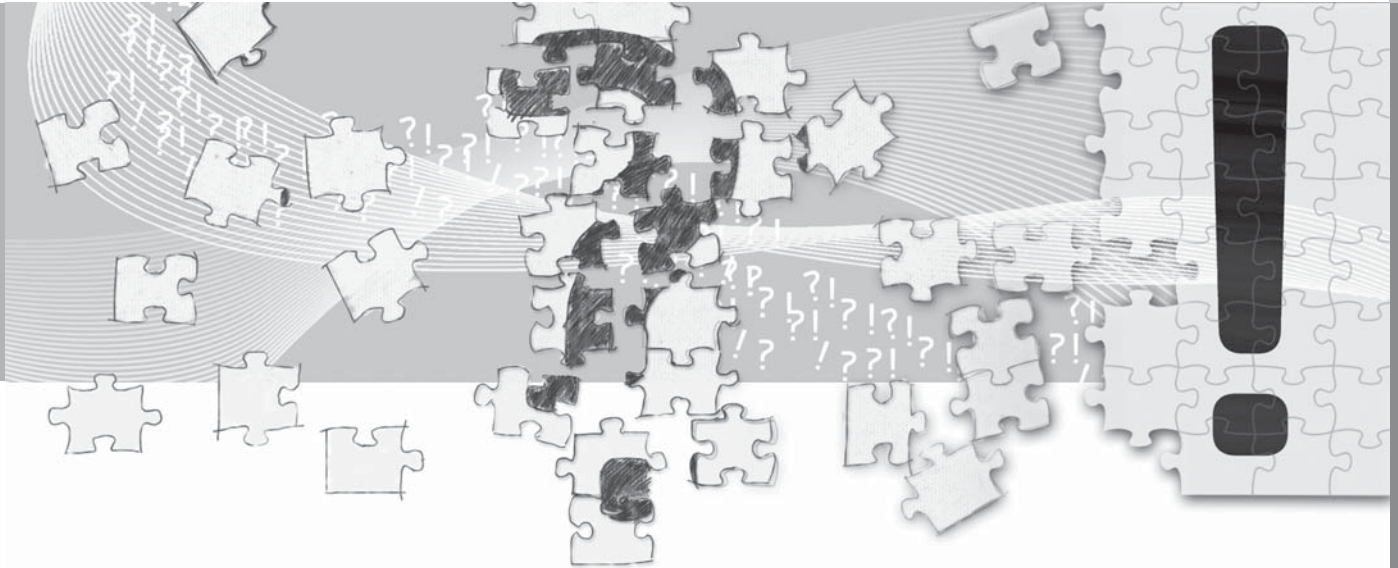
	Police station
	Fire station
	Library
	Hospital
	Pharmacy
	Bank ATM
	Post office
	Kindergatan School
	Camp site

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06

QUESTIONS AND ANSWERS



Frequently asked questions

The position of the car on the map is wrong

The Navigation system shows the position of the car to an accuracy of about 20 metres.

There is a greater chance of error when driving on roads lying parallel to another road, on winding roads, on roads on several levels and after driving a long distance without making any distinctive turns.

High mountains, buildings, tunnels, viaducts, over/underpasses etc. also have a negative affect on the reception of GPS signals, which means that accuracy in calculating the position of the car may decrease.

The system does not always calculate the fastest/shortest route

When calculating a route outline, distance, width of road, type of road, number of right or left turns, roundabouts etc. are all taken into account in order to produce the best theoretical route. A more efficient selection of route may be possible based on experience and knowledge of the area.

The system uses toll roads, motorways and ferries even though I chose to avoid them

For technical reasons, the system can only use major roads when calculating a route outline extending over a long distance.

If you selected to avoid toll roads and motorways, then they are avoided to the greatest possible extent and are only used if there is no other reasonable alternative available.

The position of the car on the map is incorrect after transportation

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 before the position of the car is correctly calculated.

The position of the car 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 position of the car to be calculated.

The car symbol on screen behaves erratically after a tyre change

In addition to the GPS receiver, the car's speed sensor and a gyro assist in calculating the current position and direction of travel of the car. After fitting the spare wheel or changing between summer and winter tyres the system needs to "learn" the size of the new wheels.

In order for the system to work optimally it is recommended to turn the steering wheel to full

lock a few times while driving, in a suitable location.

The map image does not correspond with the real situation

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

Continuous development and updating of map data is underway - a Volvo dealer can provide more information.

See also www.volvocars.com/navi for further information on maps etc.

The scale of the map sometimes changes

There is no detailed map information in certain areas. The system then automatically changes the degree of magnification.

The expected menu option is missing

Check the settings that have been made. Select **Reset navigation settings** to restore the original settings.

If this does not help, select **Delete all user data**.

**Frequently asked questions****The car symbol on screen jumps forwards or spins**

The system may need a few seconds to sense the position and movement of the car before driving off.

Switch off both the system and the engine. Start again, but remain stationary for a while before starting to drive.

I shall go on a long trip but do not want specify a particular route outline to the cities I plan to travel through - How do I most simply create an itinerary?

Specify the destination directly on the map using the hairline cross. The system automatically guides you to the final destination even though you are driving beside the intermediate destinations.

My map information is not up-to-date

Contact your nearest Volvo Dealer regarding the updating of map data.

See also www.volvocars.com/navi

How can I easily check which map version is used?

See **Settings** → **System information** → **Map version**: for information on version and geographic area covered.



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