

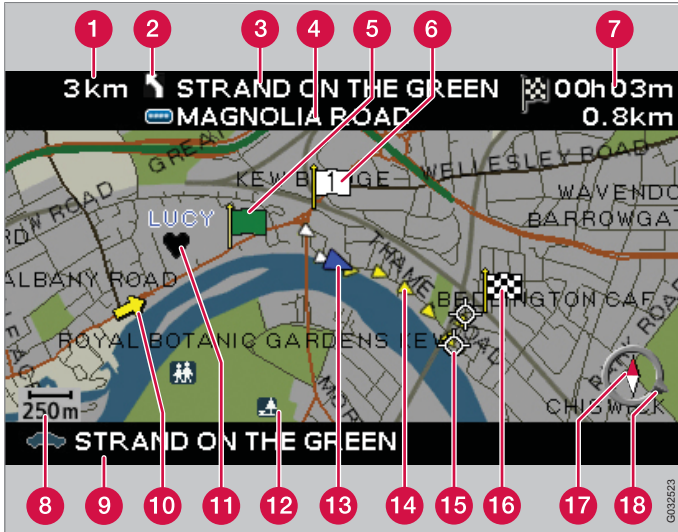


VOLVO XC60, V70, XC70 & S80

ROAD AND TRAFFIC INFORMATION SYSTEM (RTI)



OPERATING MANUAL



Text and symbols on screen

- 1 Distance to next guidance point
- 2 Event at next guidance point
- 3 Name of next road/street
- 4 Roadsign information for next road/street
- 5 Planned route start
- 6 Planned route waypoint
- 7 Estimated travelling time and distance to destination
- 8 Map scale
- 9 Current road/street name
- 10 Traffic information
- 11 Stored location
- 12 Alignment symbol
- 13 Position of car
- 14 Planned route
- 15 Next guidance point
- 16 Planned route destination
- 17 Compass
- 18 Arrow on outer compass ring indicates direction to destination

Road type	Colour
Motorway	Green
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 guidance system developed by Volvo. The system guides you to a destination and provides information along the route. This provides information on situations which may make your drive more difficult, e.g. accidents and roadworks, and shows you alternative routes.

It is possible to set up an itinerary, search for facilities along the route, store special locations, etc. The system indicates the current position of the car and does not allow wrong turns that would prevent you from reaching the chosen destination.

You will learn how intuitive it is to use. Try it out. We also recommend that you familiarise yourself with the information in this manual in order to derive most enjoyment from the system.

The Volvo navigation system helps to bring about a better environment by making it easier to get to where you want to go and shorten the distances you have to drive.

License agreement NAVTEQ DATABASE

For end user information, see page 66.





01 Quick guide

Quick start..... 8

01



02 Get to know your navigation system

Manual.....	12
Before starting.....	13
Overview XC60.....	14
Overview V70/XC70.....	16
Overview S80.....	18
Controls.....	20
Keyboard.....	21
DVD disc, screen.....	22
Maps, road types and compass.....	24
Menu tree in three levels.....	26
Quick menu.....	28
Main menu.....	30
Scroll menu.....	31

02



03 Planning your trip

Set destination.....	34
Itinerary.....	39
Store location.....	41
Next destination.....	42
Current position.....	43
Settings.....	44
Avoid area.....	45
Alternatives.....	47
Simulation.....	49

03



04 Traffic information

General.....	52
Avoiding traffic problems.....	53
Selecting information.....	54
Reading information.....	55
Transmitters/Map scale.....	56

04



05 Symbols on the map

Facilities.....	60
-----------------	----

05



06 Questions and answers

Frequently asked questions.....	64
EULA - License agreement.....	66
Copyright.....	68

06



07 Alphabetical Index

Alphabetical Index.....	69
-------------------------	----

07



Quick start..... 8

QUICK GUIDE



01



01 Quick guide

01

Quick start

Keypad/Remote control

- Use the **navigation button** - the keypad's locating pin or the remote control's arrow keys - to navigate up, down, right or left between different menu options and selections, as well as to move the cursor on the map.
- **ENTER** – Confirms or activates selections.
- **BACK** - Back in the menu structure or to cancel a selection.

The keypad is located on the right-hand rear side of the steering wheel, see page 20.

The buttons on the remote control have the same functions as the keypad on the steering wheel.

Activating the system

The remote control key must be inserted into the ignition switch (see the owner's manual for the car).

1. Briefly press the **START/STOP ENGINE** button.
2. If the display is not activated: Press **BACK** or **ENTER**.

Starting the system

The system starts by displaying a screen where the text content has to be confirmed by pressing **ENTER**.

The system may then need a few seconds to determine the position of the car. Map mode is then displayed in which the position of the car is shown with a blue triangle.

Guidance to street address

Set destination	Press BACK to access the Main menu. Scroll with the navigation button to Set destination and press ENTER .
Address	Scroll to Address and press ENTER .
Country/ City	Scroll to Country and City respectively and press ENTER . Scroll to the required letters in order to set the country and city in which the street address is located. Press ENTER .
Street	Scroll to Street and press ENTER .
Street number	Scroll to No. and press ENTER .

Set	Scroll to Set and press ENTER .
Start guidance	Scroll to Start guidance and press ENTER .

The system now calculates the route and the distance to the input destination. You receive 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 facility

Set destination	Press BACK to access the Main menu. Scroll with the navigation button to Set destination and press ENTER .
Facility	Scroll to Facility and press ENTER .
Facility by name	Select Facility by name and press ENTER .

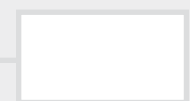


Country/ City	Scroll to Country and City respectively and press ENTER . Scroll to the required letters in order to set the Country and City respectively in which the facility is located. Press ENTER .
Type	Scroll to Type . Select type of facility, e.g. petrol station, restaurant or Volvo dealer. Press ENTER .
Name	Scroll to Name . Select the facility and press ENTER .
Set	Scroll to Set and press ENTER .
Start guid- ance	Scroll to Start guidance and press ENTER .

The system now calculates the route and the distance to the input facility. You receive 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.

Manual.....	12
Before starting.....	13
Overview XC60	14
Overview V70/XC70.....	16
Overview S80.....	18
Controls.....	20
Keyboard.....	21
DVD disc, screen.....	22
Maps, road types and compass.....	24
Menu tree in three levels.....	26
Quick menu.....	28
Main menu.....	30
Scroll menu.....	31



GET TO KNOW YOUR NAVIGATION SYSTEM



02



02 Get to know your navigation system

Manual

General information on the manual

There is a quick guide for anyone wanting to get started straight away, see page 8.

For a more detailed description and choice of settings for destinations, we recommend that you take a look at the chapter entitled Planning your journey, see page 34.

Menu options/Search paths

All options that can be selected on the display are marked in the 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** → **Street**.

Special text

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.

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**

You can use the navigation system without having selected a destination. The map with the position of the car is shown on the screen and the car is shown with a blue triangle.

The system is updated continuously and could therefore contain functions not described in this manual.

Map mode

On startup, the system starts by displaying a screen where the text content has to be confirmed by pressing **ENTER**.

Then the display switches to Map mode, and the current map image covers the entire screen.

- Press **BACK** to reach the Main menu, see page 30.
 - Press **ENTER** to reach the Quick menu, see page 28.
1. Press the **navigation button** to activate Scroll mode, in order to view parts of the map that are outside of the screen for example.
 2. In this mode **ENTER** activates the Scroll menu, see page 31.

Settings

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

If a setting has been changed and the factory setting is required again then only the current function is affected.

There is no function that resets all settings simultaneously.

On/Off**On**

1. The remote control key must be inserted into the ignition switch (see the owner's manual for the car).
2. Press **ENTER** or **BACK**.
3. The display is activated automatically.

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

Off

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

The system can also be switched off manually, so that it does not start automatically the next time the remote control key is inserted into the ignition switch:

1. Press **BACK** to reach the Main menu.
2. Scroll to **Shut down** with the **navigation button**.
3. Press **ENTER**.
4. The display is toned down or switched off.

**NOTE**

The system can be accessed even if the engine is switched off. The system is switched off in the event of low battery voltage.

Demo (simulated guidance)

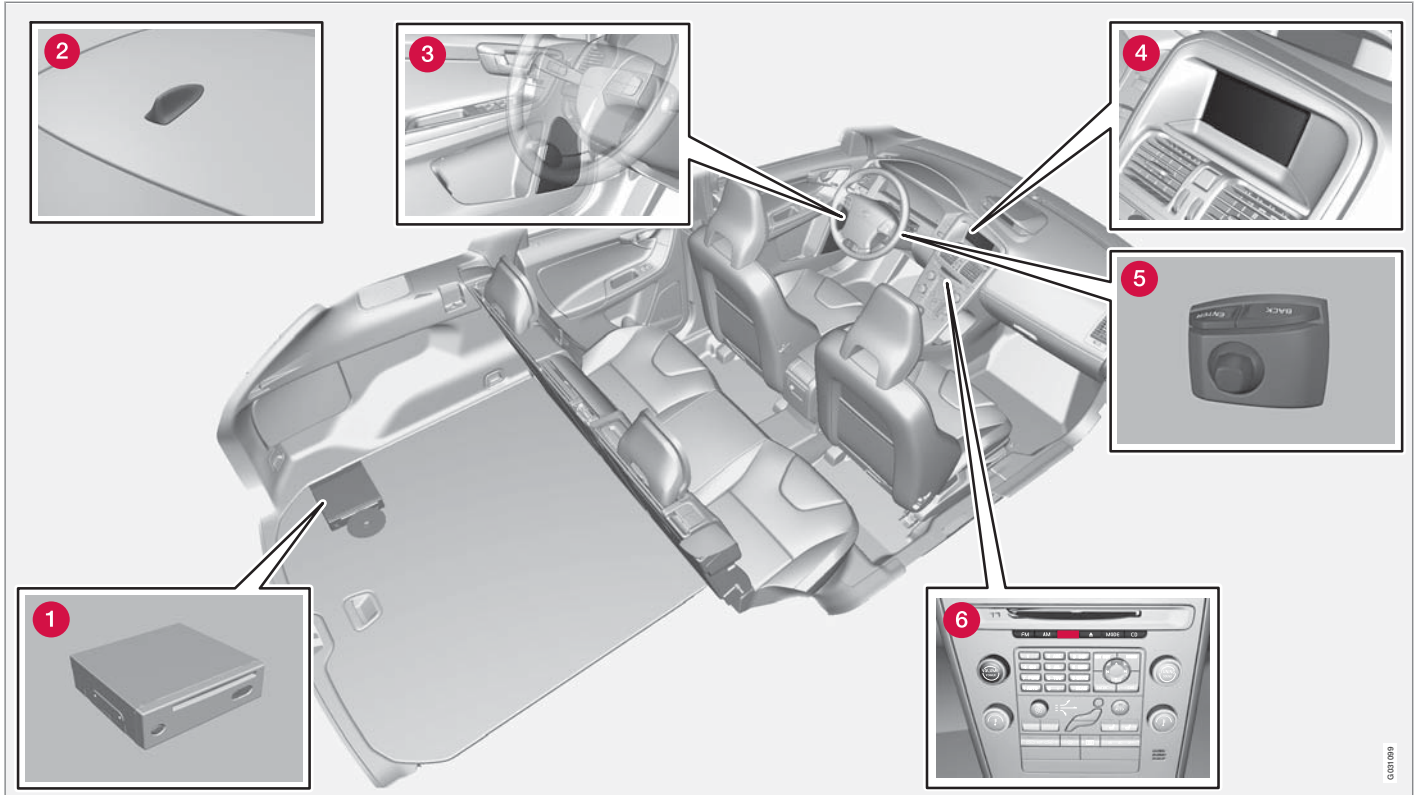
To get an idea of how guidance works you can set a destination. When the car is stationary you can simulate guidance to the specified destination, see **Start demo** see page 49.



02 Get to know your navigation system

Overview XC60

02



0201099



1 Main unit

The main unit is fitted in the cargo area 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

NOTE

The DVD player's **EJECT** button is located to the left and the lock button to the right of the unit.

- The main unit's DVD player is only designed for Volvo's map discs.

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 coverage area of the system is under constant development which is why updates can sometimes be necessary, see page 22.

2 Antenna for GPS

The antenna is integrated into the roof antenna.

3 Speakers

Navigation system audio uses the front loudspeakers.

4 Screen

The screen displays maps and provides detailed information on route type, distance, menus etc. For screen care, see page 23.

5 Keypad

The keypad is located on the right-hand rear side of the steering wheel. Use it to scroll between different menu options, to confirm selections or to move back in menus. see page 20.

6 Volume control and IR receiver

Use the audio system volume control during an ongoing voice message to adjust the volume. The volume can also be changed in the menu system.

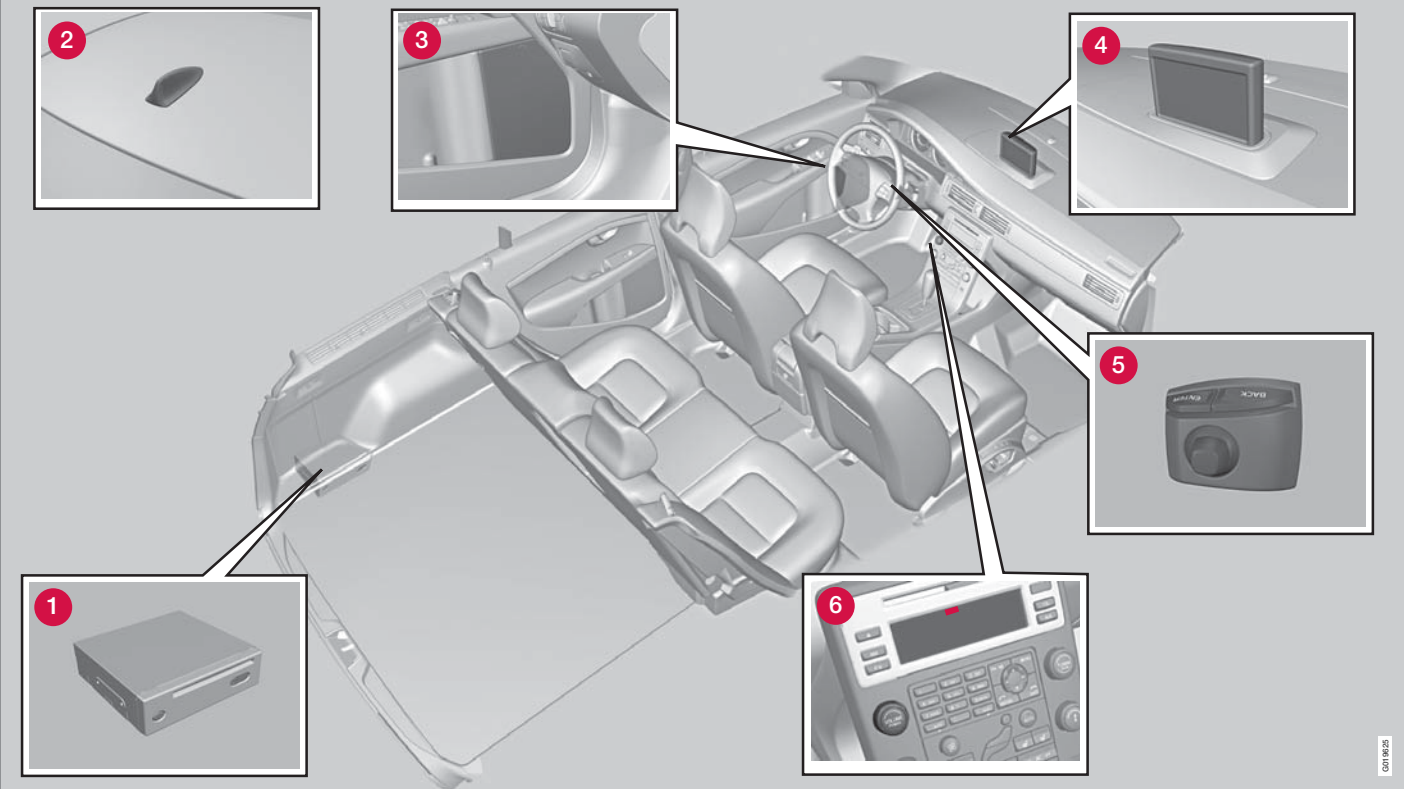
The IR receiver for the remote control is located above the centre console's numeric keypad.



02 Get to know your navigation system

02

Overview V70/XC70



001 9825



1 Main unit

The main unit is fitted in the cargo area 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

NOTE

The DVD player's **EJECT** button is located to the left and the lock button to the right of the unit.

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Navigation system audio uses the front loudspeakers.

4 Screen

The screen displays maps and provides detailed information on route type, distance, menus etc. For screen care, see page 23.

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6 Volume control and IR receiver

Use the audio system volume control during an ongoing voice message to adjust the volume. The volume can also be changed in the menu system.

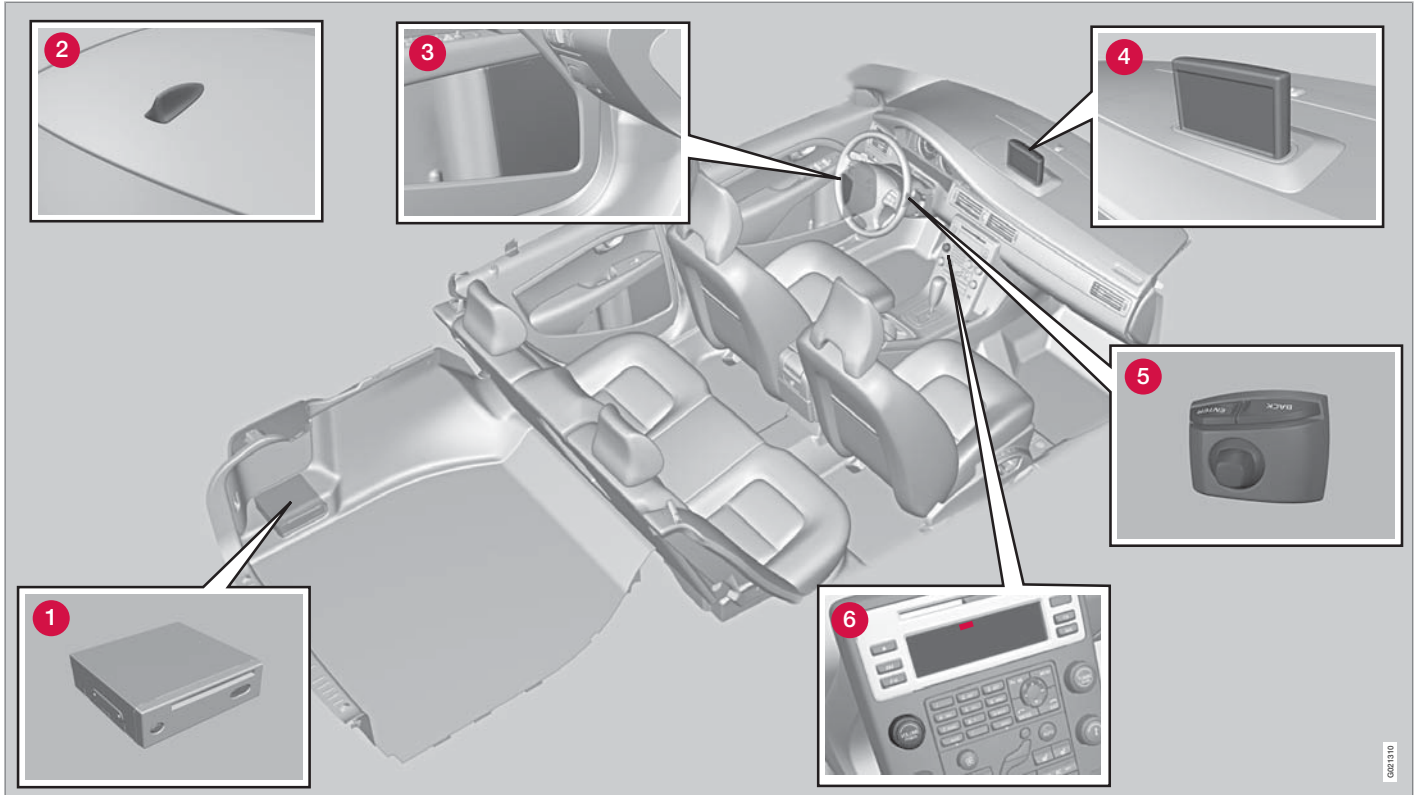
The IR receiver for the remote control is located in the audio system's display.



02 Get to know your navigation system

Overview S80

02



020110



1 Main unit

The main unit is fitted in the cargo area 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

NOTE

The DVD player's **EJECT** button is located to the left and the lock button to the right of the unit.

- The main unit's DVD player is only designed for Volvo's map discs.

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 coverage area of the system is under constant development which is why updates can sometimes be necessary, see page 22.

2 Antenna for GPS

The antenna is integrated into the roof antenna.

3 Speakers

Navigation system audio uses the front loudspeakers.

4 Screen

The screen displays maps and provides detailed information on route type, distance, menus etc. For screen care, see page 23.

5 Keypad

The keypad is located on the right-hand rear side of the steering wheel. Use it to scroll between different menu options, to confirm selections or to move back in menus. see page 20.

6 Volume control and IR receiver

Use the audio system volume control during an ongoing voice message to adjust the volume. The volume can also be changed in the menu system.

The IR receiver for the remote control is located in the audio system's display.

Controls

Keypad location and IR receiver



The navigation system is controlled with the steering wheel's keypad or the remote control.

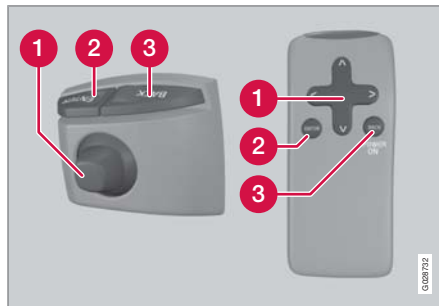
The keypad is located on the right-hand rear side of the steering wheel.

Aim the remote control towards the IR receiver located in the audio system's display.

NOTE

The remote control contains AAA or R03 batteries. If the remote control ceases to function, try changing the batteries first.

Keypad, steering wheel/remote control



The steering wheel keypad and the keypad on the remote control have the same functions. Use it to scroll between different menu options, to confirm selections or to move back in menus.

The design may vary for different models.

1 Navigation button

Scroll between different menu options using the **navigation button**, the keypad's locating pin or the remote control's arrow keys **←**, **▲**, **→** and **▼**. The navigation button also moves the cursor (hairline cross) on the map.

2 ENTER

Confirms or activates selections.

3 BACK

Undoes the most recent selection or goes back in the menu structure.

"Do not disturb"



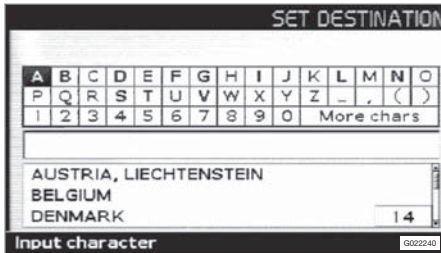
In some situations, the system requires a few extra seconds to make a calculation. A symbol is then displayed on screen.

NOTE

When the calculation symbol appears, the system is unable to accept any commands from the **navigation**, **ENTER** or **BACK** buttons.



Entering and selecting options



The keyboard is used in many places within the menus for entering specific information, e.g. type of facility, country, city, street address, street or post code.

1. Select the letters using the **navigation button** and press **ENTER**.
 - > When there are no further alternatives the remaining letters are entered by the system.

The list at the bottom of the screen shows the first three possible alternatives matching the letter input.
2. It is also possible to scroll down using **V** to directly access alternatives on the list.
3. Select using **A** or **V** and press **ENTER**.

The scroll bar on the right-hand side of the screen shows that there are more alternatives

in the list than those shown on the screen. The number (14) shows the number of alternatives.

- Return to the keyboard from the list of alternatives using **BACK**.
- Delete the input letters entered one at a time using **BACK**.

General search

The search function is always available and always works in the same way irrespective of menu status when a location is entered.

If **ENTER** is pressed during an input then all reply combinations are shown for each respective alternative: City, street, facility etc.

For example, if a search is made for a name such as London Airport then all London combinations will be shown when **LO** is input. The more letters you input the more specific the reply.

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

DVD disc, screen

DVD contents

Map discs with updated and additional information are issued continuously. Contact a Volvo dealer for information on the latest issue.

NOTE

The map discs do not have 100 per cent coverage in all areas/countries.

The coverage area of the system is under constant development which is why updates can sometimes be necessary.

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

NOTE

The following applies to map information stored on several discs:

A message on the screen indicates when/if a disc should be changed. If the disc is not changed then the road network information will still be available, but not the detailed information.

Australia

Road & Traffic Information RTI

The majority of the Australian road network is available on a single DVD disc.

Europe

Road & Traffic Information RTI

Each DVD set includes at least three discs. All discs contain the majority of the European road network. The difference between the discs is the detailed information such as addresses, facilities etc. Such information is divided into the relevant disc for geographic area.

Middle East

Volvo Navigation System VNS

The majority of the Middle East road network is available on a single DVD disc.

Russia

Road & Traffic Information RTI

A selected part of the Russian road network is available on one and the same DVD.

South Africa

Volvo Navigation System VNS

The majority of the South African road network is available on a single DVD disc.

Changing the DVD

The ignition must be switched on during the whole procedure (see the Owner's Manual for the car).

1. Starting the system. For instructions, see page 13.
2. Unlock the catch on the main unit. (See the overview illustration for the DVD player's location, see page 16.)
3. Press the **EJECT** button and remove the disc.
4. Insert the new map disc.
5. Lock the main unit.

Changing to an updated map disc may in some cases also add new functions to the system. If the disc contains new software, then a question asks whether the update is accepted.

After acknowledging with the **YES** option, the text **Preparing to load System Software. Please wait** is shown.

The update takes around 15 minutes. When it is finished the start screen is displayed and the navigation system is ready for use.

NOTE

The screen may dim or switch off while updating is in progress.



DVD disc, screen

Care of DVD discs

Handle the DVD discs carefully.

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

Screen care

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



02 Get to know your navigation system

Maps, road types and compass

Map image

1 73km to EVERINGTON LANE, YATTENDON,

PHOENIXWA	BP HESTON M4 W	6.3km	
M4			
5	BP	17km	▶
M4			
RestArea	BP READING M4	56km	▶
M4			

M4

2 30yd ↶ UPPER BELGRAVE STREET 00h03m
0.7m

CHESTER STREET

3 M4 00h09m
HEATHROW AIRPORT (T) 9.9km

M4

4 HOUSE

ROYAL MID-SURREY

FOUR REGIONS
KEW ROAD, RICHMOND, RICHMO

250m

02

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, symbols selected for display etc.

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

The name of the current route outline is shown at the bottom of the screen - no itinerary is required for this.

- 1 Facilities along the motorway, see page 30.
- 2 Detailed junction map. The left-hand section of the screen enlarges the navigation at the next junction. The situation is always supplemented by a voice message.
- 3 Two maps can be selected as display mode. The screen shows the same map image but in two different scales. Make the selection in the Quick menu, see page 28.
- 4 Scroll mode, see page 31.

Voice messages

After a destination has been selected and an junction or exit is approaching a voice message is given stating distance and type of manoeuvre. At the same time a detailed map of the junction is displayed.

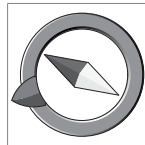
The voice message is repeated closer to the junction. Adjust the volume using the audio system volume knob (during the ongoing voice message).

To choose between male and female voice options: Go to **Settings** → **Guidance options** → **Road description voice**, see page 47.

NOTE

In some cases (e.g. when using the car-phone) a voice message is replaced with a pling tone.

Compass



The map image can show the compass in two different ways:

- With the compass direction north always facing up.
- With the direction of travel always facing up.

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

The grey destination arrow in the outer ring of the compass points in the direction of the selected destination.

Go to **Settings** → **Map options** → **Map orientation** to select how the map direction is to be displayed and to **Compass** to select how the compass is to be displayed, see page 47.



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 submenus - these are described in more detail in their respective sections.

02

Set destination	page 34
→ Address Country City Street Number	page 34
→ Facilities Facility by name Around the car Along the route Around point on map Along a street	page 35

→ Stored locations Add to itinerary Information Edit Sorting Delete location Delete all	page 36
→ Last ten Add to itinerary Information Delete location Delete all	page 36
→ Return trip see Itinerary	page 37
→ Junction Country Street Junction City	page 37

→ Map search Point on map Latitude/longitude	page 37
Itinerary	page 39
→ Start guidance	page 39
→ Add to itinerary see Set destination/ Address	page 39
→ Route options Route Avoid motorways/road tolls/ferries/traffic prob- lems/time-lim. roads/car trains/specified areas Return to basic settings	page 44
→ Clear itinerary	page 39
Next destination	page 42



Menu tree in three levels

Current position	page 43
Settings	page 44
→ Traffic information ^A Auto. notification Traffic-info. selection Search station Reset to default	page 52
→ Route options See Itinerary/Route settings	page 45
→ Map options Facility selection Map Map orientation Compass Current location Reset to default	page 47

→ Guidance options Guidance voice Guidance volume Guidance volume check Time/dist. to go Time format Reset to default	page 47
→ System options Language Colours Screen saver Help Distance unit GPS Information About Reset to default	page 47
→ Start demo	page 49
Shut down	page 13

^A Not available in all areas/countries.

Quick menu

Easier operation during the journey

There are several functions collected in the Quick menu that facilitate operation during the journey.

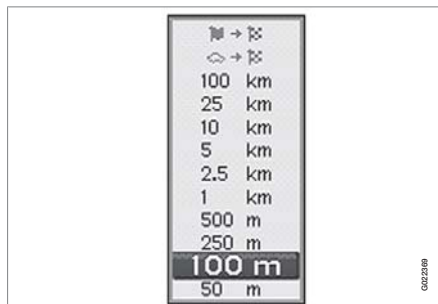
- Press **ENTER** in Map mode and select the submenu using **<** or **>**.



Most system settings can be made under **Settings** in the Main menu while others can only be accessed via the Quick menu.

– Map scale/Current route outline

Change the size of the map image to provide a larger perspective or more detail.



Display of the remaining route from the current position to the destination, or the entire route to the destination, can be selected at the top of the menu (see the inside cover, point 7).

If the display of two maps is selected then a symbol for map scale is visible at each end of the Quick menu. This is to enable the adjustment of each respective scale individually. The scale bar can be specified from 50 metres up to 100 km.

– Guidance

Press **ENTER** for current guidance or to repeat a voice message.

– Route outline/Map/Set for surveill.

Route outline

List of approaching guidance points. In addition to street name, the distance between guidance points is shown and an arrow shows type of manoeuvre.

One map/Two maps

Select to display one or two map images of the current area.

Surveillance ¹

Select **Surveillance.1, 2 or 3** to view previously set surveillances. see page 31.

– Detour

Avoid streets/roads

This function deselects streets or roads from an itinerary set up so that you do not have to drive through a known roadworks area, for example.

1. Select **Avoid** in the Diversion menu and press **ENTER**. A list of streets/roads included in the route outline is shown.
2. Scroll to the street/road to be avoided and press **ENTER**.

¹ Only in areas that can receive traffic information.



3. If several streets/roads are to be avoided, start by scrolling using **V** to the first street/road in the group to be avoided, then press **ENTER**. Then scroll to the last street/road in the group to be avoided and press **ENTER**.

The system then calculates a new route outline which leads back to the original route outline only once the stretches specified have been avoided and passed.

Avoid stretch within 1-80 km

This function deselects an entire area in the original itinerary so that you do not have to drive through a densely populated area in rush hour, for example.

- Select an option from the diversion menu 1- 80 km and press **ENTER**.

The system then calculates a new route outline which leads back to the original route outline only once the area specified has been avoided and passed.



– Traffic information ²

Choose to read information on traffic problems that are shown on the screen.

Read message

Scroll between different traffic messages.

Show selected

Select the type of traffic message to be shown on the map.

Show all

Show all messages.

Hide all

Show no messages.



– Facilities

Along the motorway

Select to search for e.g. rest areas and petrol stations that are easily accessible along the motorway.

If a calculated route outline extends over more than one motorway then the system only searches along the motorway currently being used.

Around the car

See page 35.

Along the route

See page 35.

² Not available in all areas/countries.



02 Get to know your navigation system

Main menu

Main menu

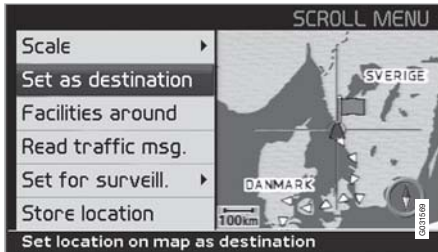


The Main menu is at the top of the menu tree and is the first menu to greet the user after the start-up map image.

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



Map scroll



In the Scroll mode a hairline cross is manoeuvred over the map image using the **navigation button**.

1. Activate Scroll mode by scrolling with the **navigation button**.
2. Press **ENTER** in Scroll mode to activate the Scroll menu.

Scale (Scale)

Change the scale of the current area.

Set as destination (Set as destination)

Add the location marked by the hairline cross as a destination in the itinerary.

Facilities around (Facilities around)

Search for the facilities available in the local area.

Read traffic msg. (Read traffic msg.)

Shows current traffic messages within the map area on screen.

Set for surveill. (Set for surveill.)¹

Select between **Surveillance 1, 2 or 3** and press **ENTER** to store a map view as a surveillance area, e.g. heavily trafficked roads that are often subject to traffic problems.

Activating the map: Select the Map/Route outline option from the Quick menu, then determine the required surveillance.

Store location (Store location)

Save a location that is then retrieved under **Set destination** → **Stored locations**.

¹ Only in areas that can receive traffic information.



Set destination.....	34
Itinerary.....	39
Store location.....	41
Next destination.....	42
Current position.....	43
Settings.....	44
Avoid area.....	45
Alternatives.....	47
Simulation.....	49

PLANNING YOUR TRIP



03

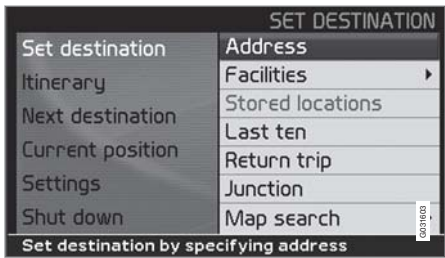


03 Planning your trip

03

Set destination

Address



Specify Country (Country)/City (City) or select from list

Set destination → Address → Country/ City

(Set destination → Address → Country/ City →)

Country can be preselected and then correspond to the position for the last input destination. For information on how the keyboard works, see page 21.

- Scroll to **Country** or **City** and press **ENTER** to select new, or with **>** to choose between the last selected.

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.

The lists of the five last input countries, cities and street names are deleted when the destinations in **Last ten** are deleted. Read more about the last ten destinations on page 36.

Specify street number (Number)

Set destination → Address →

The street number can be specified to give a more precise guidance.

1. Scroll to the line for **Number (Number)** after specifying the street address (**Street**), and press **ENTER** (or scroll

directly to **Set**). Existing street numbers are shown.

2. Scroll to **Set** after specifying the street number. If the street number is not specified then the system guides to the middle of the selected street.

Set
Confirms input number.

Cancel
Go back to previous screen.

Enter a street address (Street) or select from the list

Set destination → Address → Street →

A street can be selected even if no city is preselected.

No street addresses are stored in the system for small places - in this instance, select the centre of the place as your destination.

Start guidance

Set destination → Address →

1. Scroll to **Set** to add the input address to the itinerary.
2. Then scroll to **Start guidance** to start the guidance.



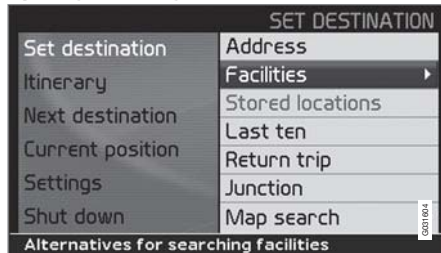
Set destination

Information

Provides information about the destination.

Facilities

Specify a facility as destination



Set destination → Facilities →

(Set destination → Facilities →)



Facilities is a collective name for petrol stations, hotels, restaurants, Volvo dealers, hospitals, car parks etc.

- Press **ENTER** to access a submenu with different search options.

It is also possible to search for facilities around the car, along the route and along the motorway via the Quick menu.

Facility by name (Facility by name)

Enter the name of a facility, or select from among the facilities from the list in the menu. The list only displays the facilities in the selected city/area.

Around the car (Around the car)

The system searches for facilities around the car (max. 160 km radius). The search is stopped after 100 facilities have been found.

Along the route (Along the route)

When a destination has been specified the system can search for facilities in an area along the route outline, (within 1 km from the route outline).

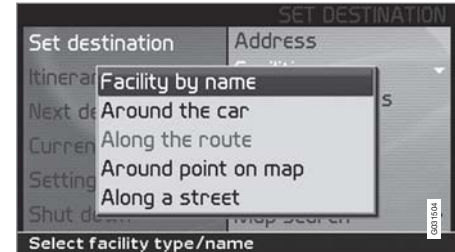
Around point on map (Around point on map)

The system searches in the same way as **Around the car**, but around a chosen point on the map.

Along a street (Along a street)

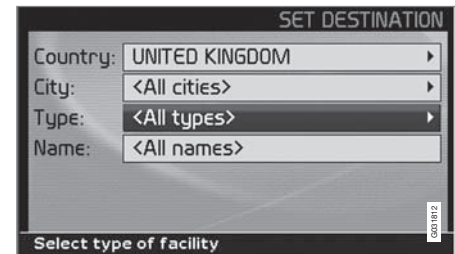
The system searches along a specified street.

Facility types/Different categories



Set destination → Facility → Facility by name →

(Set destination → Facilities → Facility by name →)





03 Planning your trip

Set destination

1. Scroll to **Name (Name)** and press **ENTER** to specify a facility name without specifying a city.
2. Scroll to **Type (Type)** and press **ENTER** to specify a facility type, or press **>** to choose between the latest selections.
3. Scroll to **Set** and press **ENTER**.
4. Then scroll to **Start guidance** and press **ENTER** for guidance to the destination.

To refine a search: Select **City** first and then scroll to **Name**.

i NOTE


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

Information on facility

The address, coordinates and telephone number of the facility, for example, are shown under Information. There are several ways of searching for information on a facility. The simplest and fastest method is as follows:

1. With a map image on screen, press **ENTER** to call up the Quick menu:



2. Scroll to  by pressing **<** or **>**, then press **ENTER**.
 - > Choose from the options **Around the car**, **Along the route** or **Along m.way**, then press **ENTER**.
3. Browse between the messages using **<** or **>**.
4. Then select a facility from the categories which appear and press **ENTER**.
5. Select **Facility info.** and press **ENTER**.
 - Select **Map** and press **ENTER** to view the facility placed on the map.

If the car is equipped with built-in phone then the function **Call** is also activated.

- Select the **Call** button and press **ENTER** for an immediate call.

Search by post code

Set destination → Address →

Destinations can be limited by selecting a post code area, after which an existing street or facility can be selected.

1. First a **Country** must be selected. Scroll there, select and press **ENTER**.
2. Then scroll to **City** and press **ENTER**.

3. There select **Post code** and press **ENTER**.
4. Select the characters and press **ENTER** or scroll with **V** and select directly from the list when the options are available.
 - > The scroll bar on the right-hand side shows that there are more options in the list than those displayed on the screen.
5. Scroll to **Street** to choose between addresses with selected post code.
6. Scroll to **Set** and then to **Start guidance** for guidance to the destination.

Locations stored previously

Set destination → Stored locations →

A stored location is a previously saved destination (home address, favourite restaurant, airport, Volvo dealer etc.). See page 41 for how to store a location.

- Scroll between the stored locations and press **>** or **ENTER** to access the sub-menu.

Add to itinerary

Adds the stored location to the itinerary.

Information

Provides information about the stored location.

**Set destination****Edit**

Change the name etc. of the stored location.

Sorting

Sort stored locations according to distance, icon or name.

Delete location

Deletes a stored location.

Delete all

Deletes all stored locations.

Destinations entered previously

Set destination → Last ten →

A list with the ten most recent destinations is displayed. The scroll bar on the right-hand side shows that there are more options in the list than those displayed on the screen.

- Scroll to the desired destination using **➤** or **ENTER** to access the submenu.

Add to itinerary

Adds the destination to the itinerary.

Information

Provides information about the destination.

Delete location

Deletes the location from the Last ten list.

Delete all

Deletes all addresses from the Last ten list.

Back to starting point

Set destination → Return trip →

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

The system then starts guidance back to the location where **Start guidance** was last selected.

Set destination via junctions

Set destination → Junction →

1. Specify **Street** and press **ENTER**.
 - > Existing junctions are shown under **Junction** if there are streets that connect/intersect along the route.
2. Scroll to the junctions you want to set as destinations.
3. Scroll to **Set** and press **ENTER**.
4. Then scroll to **Start guidance** and press **ENTER** for guidance to the destination.

NOTE

If combinations of junctions exist in more than one city, a city also has to be specified.

NOTE

It is only possible to search on junctions between major roads.

Search via point on map

Set destination → Map search →
Facilities →

1. Use the navigation button to move the hairline cross to the required destination and press **ENTER** to access the Scroll menu.
2. Scroll to **Set as destination** and press **ENTER**.

Scale

Change the scale temporarily during the search using the hairline cross.

Set as destination

Select a point on the map as destination or intermediate destination.

Facilities around

The system searches for facilities around a selected point on the map with a maximum 160 km radius. The search is cancelled if 100 facilities are found.

Read traffic msg.

Use the navigation button to choose between the traffic messages displayed on the screen.



03 Planning your trip

Set destination

Set for surveil.

Specify an area on the map which can then be easily be surveyed.

Store location

Store a location on the map.



NOTE

It is possible to search directly with the hair-line cross by using the navigation button in Map mode.

Search via latitude/longitude

Set as destination → Map search →
Latitude/longitude →

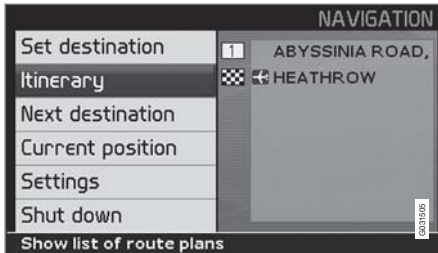
1. Select a destination by entering the coordinates for the destination.
2. Use the navigation button to enter the coordinates for latitude. Select **N** for northerly or **S** for southerly position.
3. Scroll to the next line and specify the coordinates for longitude. Select **E** for easterly or **W** for westerly position.
> **OK**
Shows the location of the specified coordinates on the map.
4. Press **ENTER** to reach the Scroll menu.

5. Scroll to **Set as destination** and press **ENTER** to select the location as a destination.
6. Press **BACK** to return to coordinate input.
> **Cancel**
Return to previous screen.



Itinerary

Enter an itinerary



Destination/intermediate destination

Itinerary →

(Itinerary →)

NOTE

The **Itinerary (Itinerary)** menu option is only available after a destination has been input.

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

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

**Start guidance (Start guidance)**

Starts guidance to the destination.

Add to itinerary (Add to itinerary)

Add a further destination.

Route options (Route options)

Route prioritising options.

Clear itinerary (Clear itinerary)

Deletes the whole itinerary.

Itinerary layout

Itinerary →

(Itinerary →)



- Select an input destination and press **ENTER** or **➤** to access the submenu.

Information (Information)

Provides information about the destination.

Delete (Delete)

Deletes the destination from the itinerary.

Move (Move)

Changes the location of the destination in the itinerary.

Adjust (Adjust)

Changes the location of the destination on the map.

Store (Store)

Saves the destination that will then be available under **Stored locations**.



03 Planning your trip

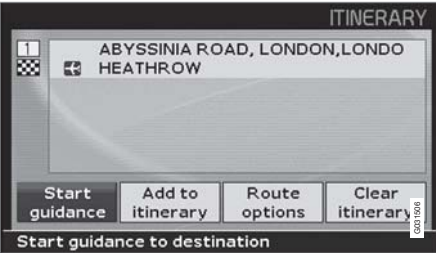
03

Itinerary

Start guidance

Itinerary → Start guidance →

(Itinerary → Start guidance →)



When you have input a destination and **Start guidance (Start guidance)** is selected the system starts to calculate the route outline and the distance to the destination (during which time **Please wait** is shown on the screen).

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

Delete in itinerary

Itinerary →

(Itinerary →)

Delete intermediate destination in the itinerary

1. Select one of the input intermediate destinations and press **ENTER** or **>** to access the submenu.
2. Scroll to **Delete** and press **ENTER**.

Delete the whole itinerary

- Scroll directly to **Clear itinerary** and press **ENTER**.



Store location

Store for re-use



Save a location on the map

1. Scroll using the navigation button in Map mode to the area you want to save as a destination and press **ENTER**.
2. Select **Store (Store)** in the submenu and press **ENTER**.

3. Scroll with the navigation button to the symbols in order to select the symbol to be shown on the map. Press **ENTER**.

4. Then scroll with **V** to input the required name.

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

Save a location that is in the itinerary

Itinerary →

1. Press **ENTER**.
2. Scroll to the destination in the itinerary you want to store and press **>**.
3. Scroll to **Store** and press **ENTER**.

Move the position of a stored location

Set destination → Stored locations

1. Select **Edit** and press **ENTER**.
2. Scroll with **>**, select **Adjust** and press **ENTER** to set a new position for the stored location on the map.
3. Use the navigation button to move the hair-line cross to the new position and press **ENTER**.
4. Then select **Store location** and press **ENTER** to save the location.

Add info about stored location

Set destination → Stored locations

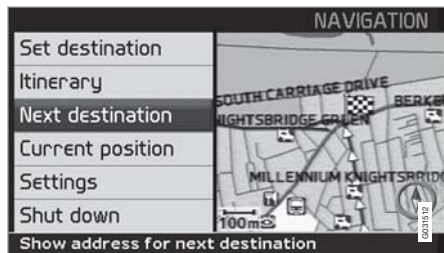
1. Select **Edit** and press **ENTER**.
2. Scroll with **>** to **Add info.** and press **ENTER** to enter further information on the stored location.



03 Planning your trip

Next destination

Next destination in itinerary



Next destination

To view the map image of the next destination in the itinerary:

1. In the Main menu, scroll down to **Next destination** (Next destination).
2. Press **ENTER** or **>** to view information on the destination such as the name, time to

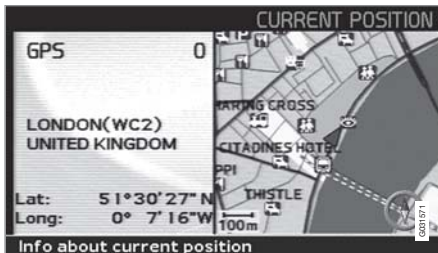
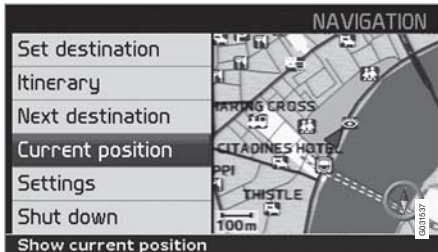
destination and distance from current position.

3. Press **ENTER** again when several destinations are specified in order to view information and map images for these too.
4. Scroll to **Map (Map)** at every destination, then press **ENTER** to view the map image of the destination across the entire screen.



Current position

Position just now



Current position

To view a map image showing the position of the car and information on the location, e.g. name and coordinates:

- In the Main menu, scroll down to **Current position** (**Current position**) and press **ENTER** or **>**.

The figure following **GPS** indicates the number of satellites that the system is in contact with.

Traffic information

Settings → Traffic information

See the chapter entitled Traffic information 54.

NOTE

Traffic information is not available in all areas/countries.



Settings

Route options

Settings → Route options

1. Scroll between the functions and select the required setting and press **ENTER** to save the settings.
2. Press **BACK** to cancel.

Route

Select fastest or shortest road when calculating the route outline.

Avoid motorways

Indicate whether motorways are to be avoided when calculating a route outline.

Avoid toll roads

Indicate whether toll roads are to be avoided when calculating a route outline.

Avoid ferries

Indicate whether car ferries are to be avoided when calculating a route.

Avoid traffic problems

Indicate whether the system should give consideration to traffic problems when calculating a route.

Avoid time-restr.roads

Indicate whether the system should give consideration to time-restricted roads when calculating a route outline.

NOTE

The correct zone time has to be set on the car's clock for this function to work.

Avoid car trains

Indicate whether car trains are to be avoided when calculating a route.

Avoid specified areas

Select the areas the system is to avoid when calculating the route outline and press **>**.
Select **Selected** and press **>** again to set the areas.

Reset to default

Restore factory settings for Route options.

- Press **>**, select **OK** and press **ENTER**.

NOTE

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

If **No** is selected for 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.



Avoid area

Avoid area

Specify areas to be avoided

Settings → Route options → Avoid specified areas

The function is intended for avoiding guidance through areas, cities or localities you never want to drive through. The system always ignores them when calculating the route outline. The exception is motorways which are used for calculating even in an area you have chosen to avoid.

1. Press **>** and select **Selected**.
2. Press **>** again to set areas.

None

Press **ENTER** to deactivate previously activated areas.

Selected

Press **>** to set new areas.

Press **ENTER** to activate the previously saved areas that are selected with a cross.

Refer to the next chapter, "Submenu Avoid area", to make settings from there.

Submenu Avoid area

Settings → Route options → Avoid specified areas → Selected

- Select the option in the submenu and press **ENTER**.

Map

Use the navigation button to indicate the area to be avoided directly on the map. Refer to the next chapter, "Specify an area on the map".

Address

Enter the address of the area to be avoided. The address constitutes the centre of the area.

Specify an area on the map

Settings → Route options → Avoid specified areas → Selected → Map

Use the navigation button to move the centre point of the hairline cross to the centre of the area to be avoided.

The name of the location that corresponds to the position of the centre of the hairline cross is shown at the bottom of the map. The rectangle shows the size of the area.

1. Press **ENTER** to reach the submenu.
2. Select the alternative and press **ENTER**.

Scale

Set the size to be shown on the map of the area to be avoided.

Set area to avoid

Save specified area.

Adjust area

- Change the size of the area using the navigation button.
- Press **BACK** to cancel the change.

Adjust area

- Move the area using the navigation button.
- Press **BACK** to cancel the move.

Save the areas to avoid

Settings → Route options → Avoid specified areas → Selected → Map

Select the previously saved areas to be avoided when calculating the route outline. These are selected with a cross.

1. Scroll using **▲** or **▼** in order to select among the areas.
2. Activate/deactivate using **>** or **<**.

OK

Activates areas selected with a cross. The activated areas are shown on the map image.



03 Planning your trip

Avoid area

Cancel

Deletes settings made and returns to **Route options**.

03



Alternatives

Map options

Settings → Map options

Select here what facilities are to be displayed in the map and how the map is to appear on screen.

1. Select a function to be adjusted using the **navigation button**.
2. Press **ENTER** to open the function.

Facility selection

- Press **>** to reach the submenu.
 - Select **Show all** to see all facility symbols on the map image.
 - Select **Hide all** if no symbols are to be displayed.
 - Select **Show selected** and press **>** to set which symbols should be shown on the map image. These are activated with a cross.
1. Scroll using **▲** or **▼** in order to select among the symbols.
 2. Activate/deactivate using **>** or **<**.
 3. Press **ENTER** to save.

Map

If the map is hidden, the system guides with an arrow.

Map orientation

Indicate whether North or Heading should be up when looking at the map.

Compass

Choose whether or not the compass is to be displayed on the screen.

Current location

Indicate whether the name of the street on which the car is currently driving should be shown at the bottom of the screen.

Reset to default

Restore factory settings for Map options.

- Press **>**, select **OK** and press **ENTER**.

Guiding options

Settings → Guidance options

Guidance voice

Set **Female/Male**.

Guidance volume

Select a value **1- 35** for volume or **Off** if no guidance voice is required.

The sound can also be adjusted using the sound system's volume control while voice direction is in progress.

Guidance volume check

Checks the set volume with a "pling".

Time/dist. to go

Select one of the alternatives **RTA/ ETA/ Hide**.

- **RTA** (Remaining Time to Arrival): Remaining time to arrival.
- **ETA** (Estimated Time of Arrival): Estimated time of arrival.

Time format

Select 12-hour system or 24-hour system.

Reset to default

Restore factory settings for Guiding options.

- Press **>**, select **OK** and press **ENTER**.

System options

Settings → System options

1. Scroll between the functions with the navigation button.
2. Press **ENTER** to save the settings.
3. Press **BACK** to cancel.

Language

Select the language to be used in the system.

Map Colour

Select between the options **Light, Contrast** or **Dark** for optimum colour reproduction.



Alternatives

Screen saver

Indicate whether the screen saver should be used (the screen goes out 30 seconds after the last keystroke).

The screen is activated automatically for guidance or when other information is provided.

Help

Indicate whether help texts should be displayed at bottom of the screen.

Distance unit

Indicate which unit of distance is to be shown (km or miles).

GPS Information

- Press **>** to see coordinates and address for the car's position, as well as the number of satellites the system is in contact with.

About

Shows information on the current map disc.

Reset to default

Restore factory settings for System options.

- Press **>**, select **OK** and press **ENTER**.



Start demo (simulation)

Settings → Start demo

Demo demonstrates the system when the car is stationary by simulating a journey to a specified destination.

Stop demo stops the simulation.

NOTE

A destination must be specified for the demonstration to work.



General.....	52
Avoiding traffic problems.....	53
Selecting information.....	54
Reading information.....	55
Transmitters/Map scale.....	56

TRAFFIC INFORMATION



04





04 Traffic information

General

Display and reception

Traffic information that is transmitted is always received and presented. It works even if no destination is specified.

How traffic information should be presented can be set and changed in **Settings**, see page 26.

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

Traffic problems are marked with symbols, lines and frames. These are coloured red or yellow.

Red - Important information

Yellow - General information

	Accident
	Slow traffic
	Slow traffic in both directions
	Extent
	Other information

The length of the line corresponds to the extent (distance) of the traffic problem.

Extent



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

Shown on all scales up to 5 km - apart from the symbol - is a red or yellow line along the route.



Avoiding traffic problems

Avoid traffic problems

Settings → Route options

Select whether or not the system should plan to bypass the traffic problem.

1. Browse to **Avoid traffic problems**
2. Select **Yes** or **No**

Yes

The system avoids roads with traffic problems when calculating a route.

No

The system does not avoid roads with traffic problems when calculating a route.

NOTE

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

Auto. notification

Settings → Traffic information → Auto. notification

Select whether or not transmitted traffic information should be shown.

Yes

The system provides the option to select an alternative route to bypass any traffic problems.

No

The system provides no information on traffic problems but instead plans the route through the areas with possible traffic problems.

New or original route

If the system calculates an alternative route in the event of a traffic obstruction then you have the option to select which route you want to take.



The display shows **Changed traffic situation. Use new route? (Changed traffic situation. Use new route?)** and shows alternatives provided, along with the fact that the new route is 5.4 km longer.

Yes (Yes)

The system guides along the new route, around and bypassing the problem.

No (No)

The system guides along the original route, up to and through the problem.

Show new route (Show new route)

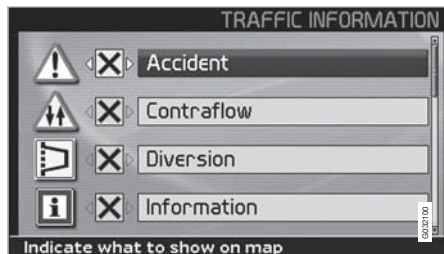
Shows detailed information on the alternative route.



04 Traffic information

Selecting information

Traffic-info. selection



Settings → Traffic information → Traffic-info. selection

Select which type of traffic information should be shown on the screen.

Show all

All traffic information is available.

Hide all

No traffic information is displayed.

Show selected

1. Press **>** to enable selection from symbols. Select the traffic information symbols (traffic messages) the system should show on the map, and take consideration of, when calculating the route.

2. Activate and deactivate respectively using **>** or **<**.

3. Confirm the settings with **ENTER**.

The scroll bar on the right-hand side shows that there are more options in the list than those displayed on the screen.

Signs on the map

	Accident
	Contraflow
	Diversion
	Information
	Narrow road
	Parking
	Congestion
	Roadwork

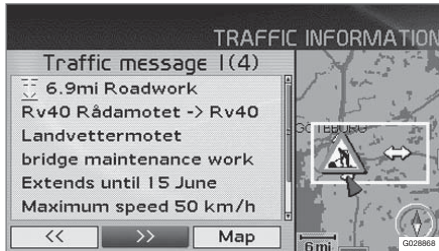
	Slippery road
	Other hazard
	Closed road



Reading information

Read traffic message

→ Read traffic msg. →



Detailed traffic information.

A traffic message is indicated by a symbol on screen. To read a traffic message:

1. Press **ENTER** to call up the Quick menu:



2. Scroll to  by pressing **<** or **>**, then press **ENTER**.
 - > Current messages are marked with a red or yellow frame.
3. Browse between the messages using **<** or **>**.
4. Press **ENTER** for detailed traffic information.

5. Press **BACK** to enable browsing between current messages again.

The traffic messages relevant to the map area are indicated on the screen.

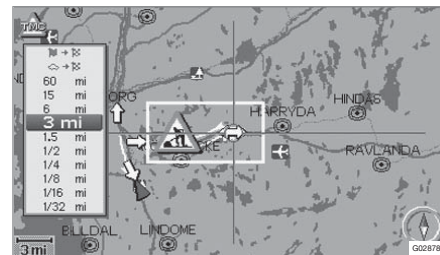
Detailed information on the traffic problem is also shown. The extent of the problem is shown at the top.

If details are available, the following are also displayed:

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

Size of area for traffic information

Read traffic msg. → Map → Scale



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.

1. To change the scale or zoom in on a specific traffic message on the map, select the scale for the area, then press **ENTER**.
2. Press **BACK** to return to the previous screen.



Transmitters/Map scale

Search/select station for traffic information

Settings → Traffic information → Search station

Search stations

- Press **ENTER** to search for existing stations transmitting traffic information.

Select station

1. Press **ENTER** to select from among existing stations.
2. Select station using **▲** or **▼** and press **ENTER**.
3. Press **BACK** to return to the previous screen.

Current station

Shows the current station for traffic information.

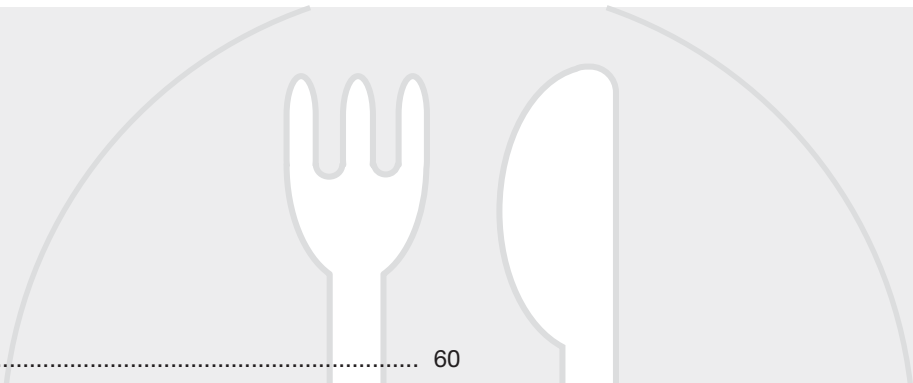
Reset to default

Restore factory settings for station settings.

- Press **➤**, select **OK** and press **ENTER**.



Facilities..... 60



0328760

SYMBOLS ON THE MAP



05





05 Symbols on the map

Facilities

The following symbols can be displayed on the screen for different facilities.

NOTE
Facility symbols may vary between different countries.

	Petrol Station
	Car Rental
	Cinema
	Bowling Centre
	Bus Station
	Town Centre
	Airport
	Ferry Port
	Liquid Petroleum Gas
	Golf Course

	Historical Monument
	Hotel
	Sports Centre
	Park & Ride
	Ice Skating Rink
	Railway Station
	Casino
	Community Centre
	Concert hall
	Shopping Centre
	Hamlet
	Museum
	Exhibition Centre

	Compressed Natural Gas
	Parking
	Park & Recreation
	Commuter railway station
	Motorway Service
	Restaurant
	Town Hall
	Ski Resort
	Hospital
	Theatre
	Tourist Attraction
	Tourist Information
	University/College

05



Facilities



Vineyard



Volvo Dealer



Frequently asked questions.....	64
EULA - License agreement.....	66
Copyright.....	68

QUESTIONS AND ANSWERS



06

Frequently asked questions

The position of the car on the map is wrong

The GPS system shows the position of the car with 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 five 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 from summer to winter tyres the system needs to "learn" the size of the new wheels.

To achieve the optimum functionality of the system it may therefore be necessary to drive

a number of kilometres including several significant turns.

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 digital map database is not always complete.

The information stored in the maps is constantly being developed and updated. A Volvo Dealer can provide further 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 **Return to basic settings** to restore the original settings.



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'm going to make a long journey but do not want to specify a special destination to the cities I am thinking of travelling through. How do I most easily 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.

What do I do to choose a destination/intermediate destination that is not on the disc?

Specify the destination as usual. If the required information is not shown, change to the DVD disc containing the required map area.

(The complete road network is available on all discs, but the detailed information is divided between the relevant discs.)

There are several map discs for the system. How do I know which to use?

Primarily use the disc containing the detailed information for your local area. This is indicated by the disc case and the disc printing.

If you are planning a journey abroad then you should have all discs available in the car.

Does my itinerary disappear when I change map disc?

No, the itinerary remains available until you delete it.

My map discs are not up-to-date

Contact your Volvo Dealer regarding the updating of map data.

See also www.volvocars.com/navi

Why are street addresses not available for destinations in another country?

Each map disc contains the same road network. Detailed information such as addresses, facilities etc. is divided onto the relevant map disc for the geographic area. In other respects the DVD discs are identical. Check that the correct DVD disc is loaded.

How can I easily check which DVD disc is used?

See **Settings** → **System options** → **About** for information on version and area covered by the disc.

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A

About	
information about the map disc.....	48
Activating the system.....	8
Address	
input.....	34
Adjust area.....	45
Adjust size of area to avoid.....	45
Antenna	
location.....	15, 17, 19
Arrow keys.....	8, 20
Auto. notification.....	53
Avoid	
area.....	45
car trains.....	44
ferries.....	44
motorways.....	44
specified area.....	45
specified areas.....	44
time-restr. roads.....	44
toll roads.....	44
traffic problems.....	44

B

BACKSPACE.....	8, 20
Back to starting point.....	37
Basic functions.....	8
Battery	
remote control.....	20

C

Change scale of traffic information.....	55
Changes in the manual.....	12
Compass.....	25, 47
Current position on the map.....	43
Current station for traffic information.....	56

D

Default settings.....	13
Delete itinerary.....	40
Demo.....	49
Destination	
set.....	34

Distance Unit.....	47, 48
Diversion	
quick menu.....	28
Do not disturb - symbol.....	20
DVD disc	
care.....	23
changing.....	22
contents Australia.....	22
contents Europe.....	22
contents Middle East.....	22
contents Russia.....	22
contents South Africa.....	22

E

ENTER.....	8, 20
Enter an itinerary.....	39
Extent.....	52

F

Facilities	
quick menu.....	28, 29
Symbols.....	60
Facilities as destination.....	35

Factory settings.....	13
Functions	
keypad and remote control.....	20

G

GPS information.....	48
GPS receiver.....	17
Guidance.....	40
quick guide.....	8
start.....	34
Guiding options.....	47

I

Intermediate destination.....	39
IR receiver and remote control.....	20

J

Junction.....	37
---------------	----

K

Keypad.....	20
location.....	15, 17, 19

L

Language.....	47
Last ten destinations.....	37

M

Main unit	
location.....	15, 17, 19
Map	
point on.....	37
Map colour.....	47
Map disc	
contents Australia.....	22
contents Europe.....	22
contents Middle East.....	22
contents Russia.....	22
contents South Africa.....	22
Map image.....	24
Map mode.....	13

Map options.....	47
Map orientation.....	47
Map scale/Current route in Quick menu....	28
Map scroll.....	31
Menus/Functions.....	26

N

Navigation button.....	20
Next destination in itinerary.....	42

O

On/Off.....	13
Overview S80.....	18
Overview V70/XC70.....	16
Overview XC60.....	14

P

Post code	
search.....	36

Q

 Quick menu..... 28
R

 Read traffic message..... 55

Remote control and IR receiver..... 20

Reset to default..... 44

Return trip..... 37

Route options settings..... 44

S

 Save a location..... 41

Saved destinations..... 36

Scale

change..... 37, 55

Scale/Current route in Quick menu..... 28

Screen

care..... 23

Screen saver..... 48

Search

general..... 21

post code..... 36

via point on map..... 37

Search paths described in the manual..... 12

Search stations for traffic information..... 56

Select station for traffic information..... 56

Select traffic information symbols..... 54

Set destination..... 34

Set for surveill..... 28, 31, 38

Simulation..... 49

Speakers

location..... 15, 17, 19

Start guidance..... 34, 40

Stations for traffic information

search/select..... 56

Store a location..... 41

Stored location

add information..... 41

Stored locations..... 36

System options..... 47

System settings..... 13

T

 TMC receiver..... 15, 17, 19

Traffic-info. selection..... 54

Traffic information..... 15, 17, 19

quick menu..... 28, 29

transmission..... 55

Traffic symbols on the map..... 52

Transporting the car..... 64

V

 Voice guidance

quick menu..... 28

Voice messages..... 25

Volume control for voice mes-

sages..... 15, 17, 19

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