



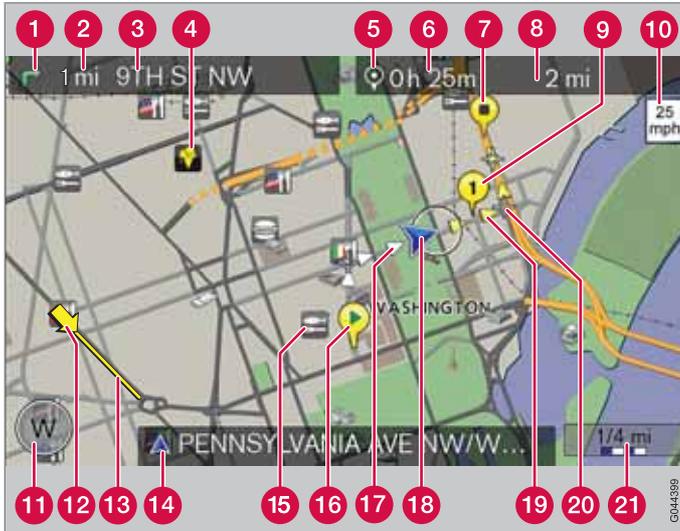
VOLVO S60 & XC60

VOLVO NAVIGATION SYSTEM (VNS)

Web Edition



OPERATING MANUAL



Text and symbols on the screen

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

Types of roads	Color
Freeways	Orange
Main roads	Red
Secondary main roads	Brown
Normal roads	Dark gray
Local roads	Dark green



VOLVO NAVIGATION SYSTEM (VNS) WITH RTT

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

RTT¹ (Real Time Traffic) is an information system developed by Volvo, which can detect roads/streets with traffic disruptions and make it possible to select an alternative route past the problem area.

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

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

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

NAVTEQ DATABASE End-User License Agreement

See the information on page 72.

¹ Option. Not available in all markets.



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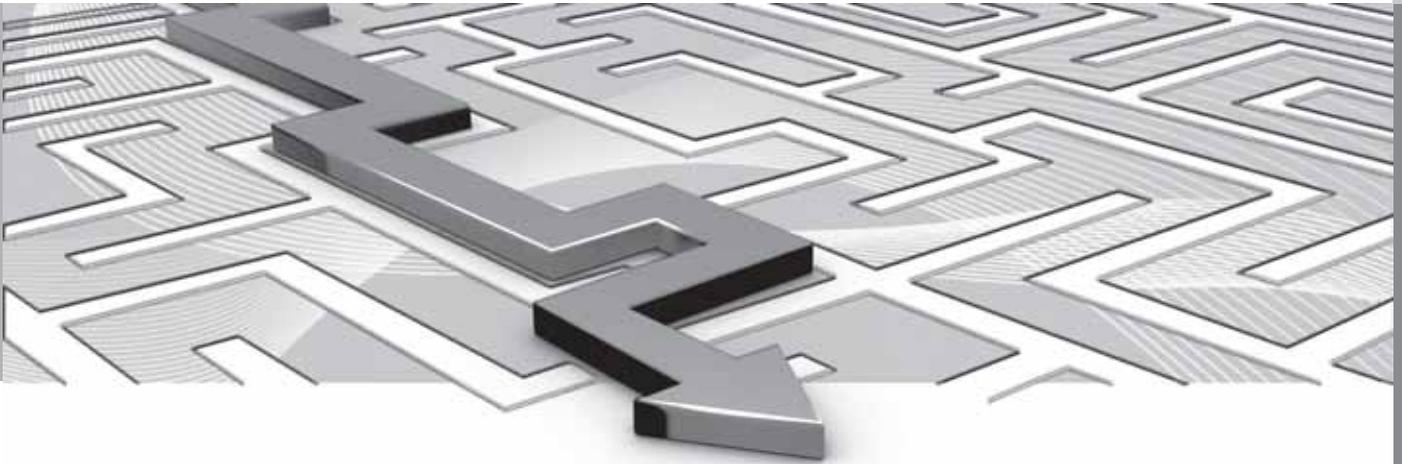


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01

QUICK GUIDE



Getting started

Activating the system

With the ignition switched on (see the section "Ignition modes" in the Owner's Manual):

1. Press the remote key fully into the ignition slot to activate ignition mode I.
2. If the navigation system does not start within a few seconds, press **NAV** on the center console control panel.

Disclaimer

When the system is started, it displays the following text, which must be confirmed:

- Press the **OK** button.

For additional information, see page 17.

NOTE

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

Navigation system options

The Volvo Navigation System can be operated in several ways:

- With the right-hand steering wheel keypad
- With the controls in the center console
- With voice commands

See page 23 for a description of the functions.

The navigation system also contains options for adjusting map, guidance, and system settings. For detailed information, see page 48.

Main commands

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



- Navigate and make selections by **turning** the **thumb wheel** (1).
- Confirm a selection by **pressing** the **thumb wheel** (written in the following examples as "+ **OK**").
- Go back in the menus or cancel by pressing **EXIT**.

Controls in the center console

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

Steering wheel keypad	Center console controls
Turn the thumb wheel	Turn TUNE
Press the thumb wheel	Press OK/MENU
Press EXIT	Press EXIT



Getting started

Guidance to a street address

Screen/menu	Action
Do as follows if a map is not displayed on the screen:	Press the NAV button on the center console.
Map	Press OK to display a menu.
Navigation menu	Scroll to Set destination + OK .
Set destination	Scroll to Address + OK .
Address:	Scroll to City : + OK .
Text wheel – see page 28.	Turn the thumb wheel to select characters and enter them by pressing OK . A list of alternatives will be displayed successively.
Text wheel	Select a destination from the list + OK .
Navigation menu	Scroll to Add to itinerary + OK .

Screen/menu	Action
Itinerary	Scroll to Start guidance + OK .
Map	The system will begin guiding you to your destination.

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

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

Guidance to Points of Interest (POI)

Screen/menu	Action
Do as follows if a map is not displayed on the screen:	Press the NAV button on the center console.
Map	Press OK to display a menu.
Navigation menu	Scroll to Set destination + OK .

Screen/menu	Action
Set destination	Scroll to Point of interest (POI) + OK .
Point of interest (POI)	Scroll to e.g., Near the car + OK .
Latest 5 POI types	Scroll to e.g., All types + OK .
All POI types	Scroll to e.g., Airport + OK .
Results list	Scroll to the desired alternatives in the list + OK .
Navigation menu	Scroll to Add to itinerary + OK .
Itinerary	Scroll to Start guidance + OK .
Map	The system will begin guiding you to your destination.



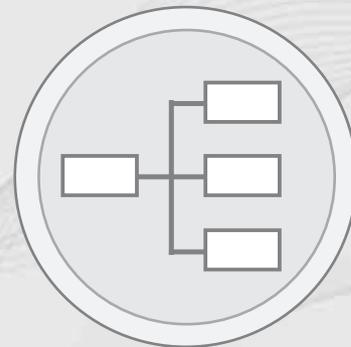
Getting started

Demo mode (simulated guidance)

The system has a Demonstration Mode that can be used as a learning tool, see page 54.

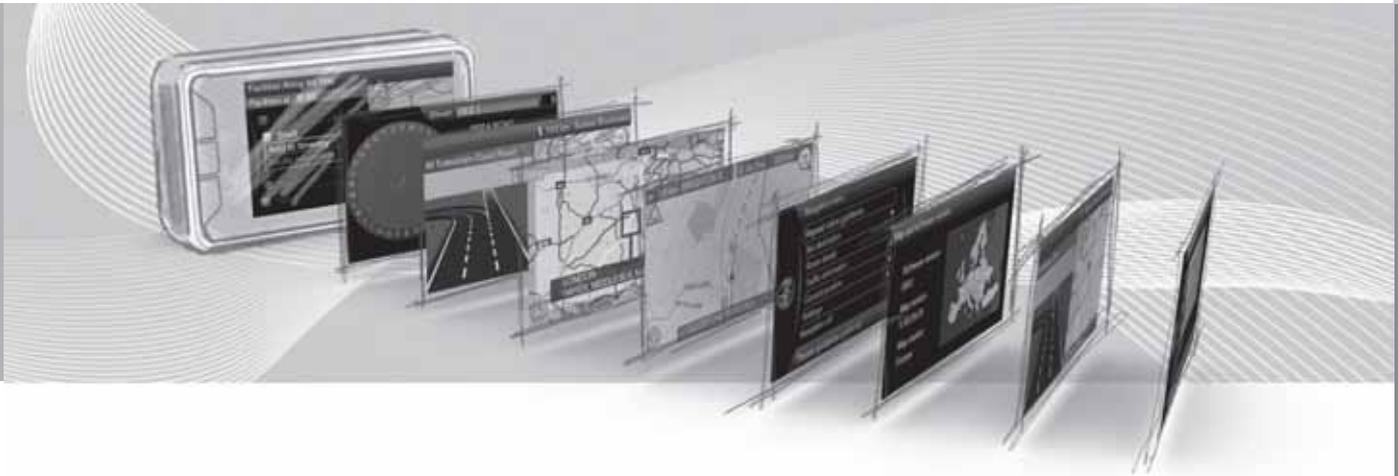


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02

GETTING TO KNOW YOUR NAVIGATION SYSTEM





This manual

Using this manual

A quick guide is available to help you get started with the basic functions as quickly as possible, see page 10.

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

Menu selections/Paths

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

Menu paths are written as follows:

Set destination → Address → Street:

or Set destination → Address → Street:

Footnotes

Certain pages of this manual contain information in the form of footnotes at the bottom of the page. This information supplements the text that the footnote number refers to (a letter is used if the footnote refers to text in a table).

Options and accessories

Optional or accessory equipment described in this manual is indicated by an asterisk (*).

Optional or accessory equipment may not be available in all countries or markets. Please note that some vehicles may be equipped dif-

ferently, depending on special legal requirements.

Contact your Volvo retailer for additional information.

Changes in the manual

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

We reserve the right to make modifications without prior notice.

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Before you begin

General information

The Volvo Navigation System uses the WGS84 reference system, which provides the vehicle's location in terms of longitude and latitude.

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

WARNING

- Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.
- Never use the navigation system or any other feature in your vehicle in a way that distracts you from the task of driving safely. Distraction can lead to a serious accident.
- Set and make changes in your navigation system only with the vehicle parked.
- Be aware of the current traffic situation.
- Always comply with relevant traffic regulations.

Map mode

When the system is started, it displays the following text, which must be confirmed by pressing the **OK/MENU** button:

- **This system provides route information to help you reach your destination. Due to road conditions, some recommendations may not be accurate. Obey all traffic laws and drive based on your own good judgment. Always concentrate on your driving by keeping your eyes and mind on the road.**

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

Settings

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

The system has a reset function that enables you to return to the default settings, see page 53.

On/Off

On

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

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

Off

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

Once activated, the navigation system cannot be switched off manually and is always active in the background after the start-up sequence. However, if you prefer to not start the system when the ignition is switched on:

- Press **EXIT** when the start-up text is displayed (see the previous section "Map mode").



Before you begin



NOTE

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

Demo (simulated guidance)

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

If the vehicle is at a standstill, guidance can be simulated to the specified destination, see page 54.

Contents of DVDs

New DVDs are issued regularly with updated maps and the most current information. The latest DVDs can be purchased from a Volvo retailer.

NOTE

The map information may not fully cover all areas/countries.

The area covered by the system is constantly being expanded, which is why occasional updates are required.

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

Map areas

The areas included in the system's maps varies according to market/country. The following main maps are available:

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

Map updates

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

1. Start the engine.
2. Insert the DVD in the media player. If the update is on more than one DVD, insert the discs in numbered order.
3. The display will show the contents of the update and the approximate time that it will take. Answer **Yes** or **No** when prompted to start the update.
4. After marking **Yes** and pressing **OK**, follow the instructions on the screen.

NOTE

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

Interrupted updates

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

NOTE

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

DVD care

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

Screen care

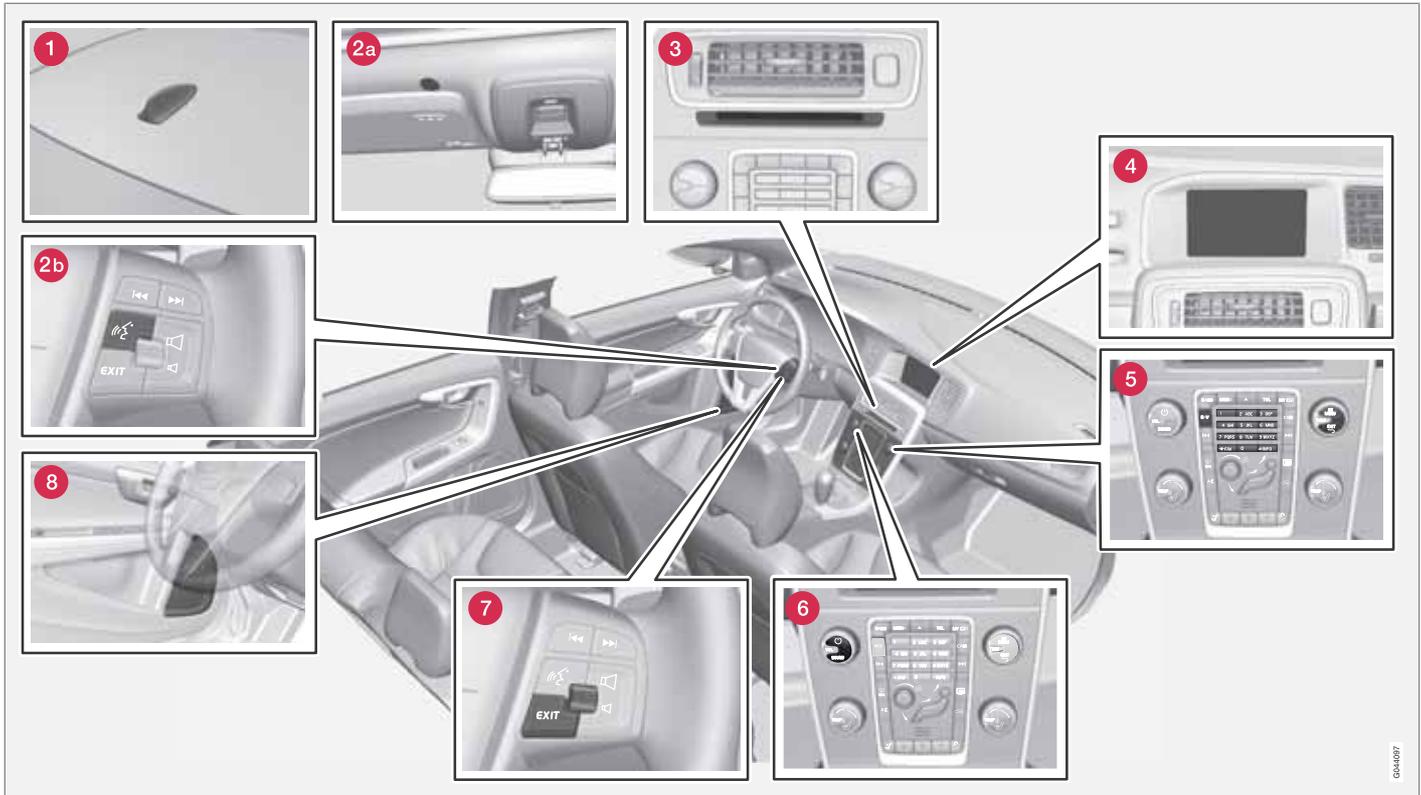
Clean the display screen with a soft, non-static cloth or a moist paper towel and a mild window cleaning agent.

Never use petroleum based solvents or abrasive substances when cleaning the screen.

CAUTION

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

System overview



The above illustration is schematic; certain details may vary, depending on the car model and market

0644027



System overview

1 Global Positioning System (GPS) antenna

The antenna is integrated into the roof module.

2 Voice control

A number of navigation system commands can be voice controlled. The microphone is near the driver's sun visor (2a) and the voice control button is located on the steering wheel keypad (2b). For additional information, see page 25.

3 Main unit

The main unit is located in and behind the center console and includes the following functions:

- Determining the vehicle's location.
- Calculating a route to the selected destination.
- Voice guidance.
- Processing traffic information.

The GPS and TMC receivers are integrated into the main unit.

Vehicle location

The navigation system uses signals from the Global Positioning System, the vehicle's speedometer and a gyroscopic sensor to cal-

culate the vehicle's current location and direction.

This also helps the system calculate direction and location if the GPS signal is temporarily interrupted, such as when driving through a tunnel.

Traffic information (TMC)*

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

i NOTE

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

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

4 Screen

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

For information about caring for the screen, see page 19.

5 Center console controls

The number keys in the center console can be used together with the **OK/MENU**, **TUNE** and **EXIT** buttons to navigate in menus, confirm selections or to go back in a menu, see page 23.

6 Volume control

Use the vehicle's audio system volume control during voice guidance to raise or lower the volume. See also page 31. The volume can also be adjusted in the **MY CAR** menu.

7 Steering wheel keypad

The thumb wheel on the steering wheel keypad can be **turned** to navigate in lists and menus and **pressed** to confirm a selection. Use the **EXIT** button to go back in a menu or to cancel a selection.

For additional information, see page 23.



02 Getting to know your navigation system

System overview

8 Speakers

Sound from the navigation system comes from the infotainment system's front speakers.



Navigation system controls

About Navigation system controls

The navigation system can be operated using the controls in the center console or the steering wheel keypad. Both alternatives offer access to the same functions but are operated differently.

The system can also be operated using voice commands.

Center console controls



- 1 **NAV:** activates the navigation system on the screen. Press to toggle between on/off and to also display e.g., climate system functions on the upper/lower sections of the screen.
- 2 **Number keys:** used to enter address and name information, and for map scrolling. See also pages 28 and 32.

- 3 Press **OK/MENU** to confirm or activate a selection. The button will be described in the manual as **OK** or "+ **OK**."
- 4 Turn **TUNE** to navigate through the menus.
- 5 Press **EXIT** to go back in the menu system or to cancel a selection.

Steering wheel keypad



- 1 **Turn** the thumb wheel to go up or down in a list of menu alternatives.
- 1 **Press** the thumb wheel to confirm or activate a selection.
- 2 Press **EXIT** to go back in the menu system or to cancel a selection.

Voice control

See the section "Voice control" beginning on page 25.

Additional information



In certain cases, more information may be available than is currently displayed on the screen. In this case, the line of text will end with





02 Getting to know your navigation system

Navigation system controls

the # sign. Press the **INFO** button to display all of the available information.

02

Introduction

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

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

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

WARNING

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

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

Since the microphone is positioned directly in front of the driver, voice commands given by other occupants of the vehicle may not be understood.

Getting started



Steering wheel keypad

- 1 Voice control button

Activating the system

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

While using the voice control system, keep the following points in mind:

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

See the "Tutorial" section on page 26 for additional information about using voice commands to control the navigation system.

NOTE

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

Voice control commands can be cancelled by:

- Saying "cancel"
- Not speaking
- Pressing and holding the voice control button
- Pressing **EXIT**
- Pressing any of the other mode buttons on the center console: **NAV, RADIO, MEDIA, MY CAR** or **CAM***.

Using voice commands

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



02 Getting to know your navigation system

Voice control

- The text on the screen will change to "**Repeat instruction/Navigation go to address/Itinerary.**" Say "**Itinerary.**"
- Continue as prompted.

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

NOTE

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

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

Commands can be given in several ways

For example, the command "**Navigation go to address**" can be spoken as:

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

or

- give the entire command at one time: "**Navigation go to address.**"

Useful tips

- When giving commands, speak at your usual speed and in a normal tone of voice after the tone
- Saying "**Help**" after the tone will prompt the system to provide a number of commands that can be used in a specific situation.
- A command dialogue with the system can be speeded up by interrupting a system prompt by pressing the voice control button briefly. Wait for the tone and begin to speak.
- If the driver is in a demanding driving situation, it is not necessary to respond to a system prompt immediately.
- The system will give a prompt 3 times. If the driver does not respond, the command dialogue will be cancelled.
- Avoid speaking during a system prompt to avoid missing information from the system.

Examples

Here are a few of the most common commands:

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

NOTE

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

Tutorial and settings

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

Tutorial

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

The tutorial feature can be started in two ways:

NOTE

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

Voice control

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

Voice training

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

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

NOTE

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

Other voice control settings found in MY CAR

- **Voice user setting:** Two user profiles can be set by pressing **MY CAR** and going to

Settings → Voice settings → Voice user setting. Select **User 1** or **User 2**.

- **Voice output volume:** Press **MY CAR** and go to **Settings → Voice settings → Voice output volume** and select the desired level.

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

Languages

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

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

To change languages, go to **Settings → System options → Language**.



The available languages have this icon in the list.

Language-dependent user profile

The voice control feature will only understand the languages set in **System options**.

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

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

On-screen keyboard

Entering text and making selections



Screen view showing the free-text field

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

Activating a selection

When the desired function/menu selection has been chosen by turning the **thumb wheel** on the steering wheel keypad or **TUNE** on the center console control panel, press the **thumb wheel/OK** to display the function/menu's next level.

Entering characters



The text wheel

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

Numeric keyboard

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

For example, press **9¹** to display all of the characters that can be entered by pressing this key, which can be for example: **w**, **x**, **y**, **z** and **9**. Press the button briefly to move the cursor to each available character.

- Stop on the desired character to select it and it will appear in the text field.
- Delete or cancel with **EXIT**.

Other characters

The inset menu in the text wheel shows other special characters or numbers. Note that grayed-out characters cannot be selected in the current context:

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

List of alternatives



A list matching the characters entered

¹ The characters for each respective key may vary, depending on the language selected and the market



On-screen keyboard

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

No list

An empty list and the characters ******* in the upper right corner indicates that there are over 1,000 alternatives containing the characters entered. If there are fewer alternatives, they will automatically be displayed.

To reduce the number of alternatives on the list, enter additional characters.



02 Getting to know your navigation system

Maps, types of roads and the compass

Map views



The above illustration is schematic; certain details may vary, depending on the car model and market

Maps, types of roads and the compass

Map views of the current location

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

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

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

- 1 Along a highway. The screen shows points of interest along the highway.
- 2 Detailed intersection information. The screen shows the direction in which you should turn at the next intersection. (Alternative lanes are only displayed for major roads.) Visual information is always accompanied by voice guidance.
- 3 Two maps. The screen shows the same map, but with two different scales. The map(s) can also be displayed in 2D or 3D, see page 50.
- 4 Map scroll mode, see page 32.

Voice guidance

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

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

To repeat guidance

- Press **OK** twice.

See also **Settings** → **Guidance options** → **Voice guidance**, see page 52.

NOTE

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

To select a male or female voice and a language

- Go into the **MY CAR** menu system (by pressing this button on the center console control panel). The volume for voice guidance can also be adjusted here. See your Owner's Manual for additional information.

Compass



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

Go to **Settings** → **Map options** → **Compass** to hide/show the compass. See also page 51 for more information.

Unverified roads

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

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

The system's default setting is to avoid unverified roads, and for this reason, no itineraries are planned on them. These settings can be changed under **Settings** → **Route options** → **Customize route**, see page 49.

The system provides information when an unverified road is added to an itinerary and when the vehicle begins to travel on one of these roads.

Main menu, Scroll menu

The menu system

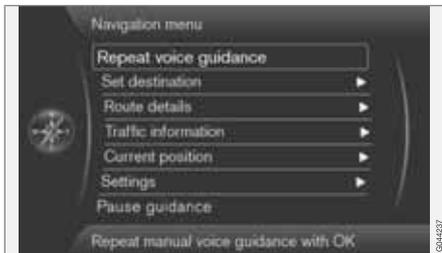
The various sections of this manual present all of the navigation system's menus and alternatives.

NOTE

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

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

Main menu



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

Display the main menu from the map view

- Press **OK**.

Return to the main menu from a sub-menu

- Press **NAV** followed by **OK**.

or

- Press **EXIT** repeatedly until the main menu is displayed.

Returning to the main menu

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

Returning to the map

There is a quick way to display the map on the screen again, regardless of where you are in the menu structure:

- Press and hold **EXIT** for several seconds.

Scroll menu



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

To activate the Scroll menu when the map is displayed

- Press one of the number keys (**0-9**).

To scroll

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

To zoom in/out

- Turn **TUNE**.

To exit the Scroll menu

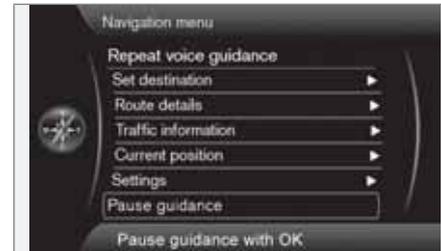
- Press **EXIT**.

The crosshairs

Pressing **OK** will display a menu for the point on the map that the crosshairs are currently pointing to. This menu contains the following alternatives:

- **Add to itinerary:** adds the marked position to the itinerary.
- **POIs nearby:** makes it possible to search for/see any points of interest that may be around the marked position.
- **Read traffic message:** makes it possible to search for/see any current traffic messages¹ around the marked position.
- **Information:** displays any information that may be available about the marked position.
- **Store:** makes it possible to store the marked position in the system's memory and opens the menu **Set destination** → **Stored location** → **Edit**, see page 41.

Pause guidance



Pause guidance

(Pause guidance)

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

To resume guidance

- Mark **Resume guidance** and press **OK**.

¹ This feature may not be available in all areas/states/markets



02 Getting to know your navigation system

Menu selections

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

02

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→ Point of interest (POI) By name Near the car Along the route Around point on map Along the street	p. 39

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→ Previous destination Add to itinerary Information Store Delete Delete all	p. 41
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→ Select point on map	p. 42
→ Latitude & longitude	p. 42

→ Postcode	p. 42
Route details	
→ Itinerary Start guidance Add to itinerary Edit itinerary	p. 44
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→ Route instructions	p. 46
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Menu selections

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^A Not available in all areas/countries.

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03

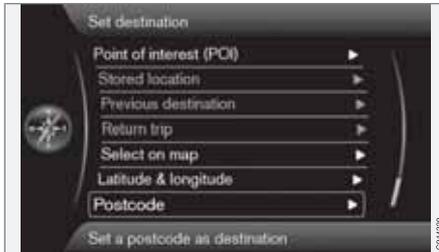
PLANNING YOUR TRIP





Setting a destination

Address



There are several different ways of programming a destination.

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

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

See page 28 for information about entering text/numbers in the system's various text fields.

NOTE

The definition of a city or area may vary from state to state, and also within the same state. It will sometimes be an entire city, or a particular section of a city.

City or street



Street is marked first

Set destination → Address

Searching for a destination:

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

3. Or select **City: + OK** and begin entering the name.

The following search criteria can be used:

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

NOTE

If the number entered does not exist for a street address, the system will provide information to this effect.



Setting a destination

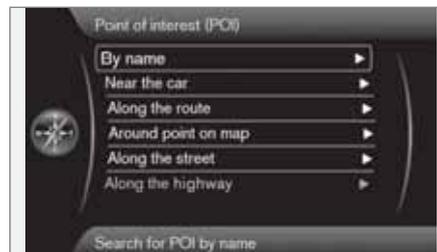
More about Information



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

- **Map:** displays a map of the location with additional information when available.
- **Call:** call the location if a phone number is given.
- **Related POI:** lists points of interest related to the selected location.
- **Parking nearby:** lists parking areas in the vicinity along with their distance from the destination.

Points of interest (POI)



Set destination → Point of interest (POI)

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

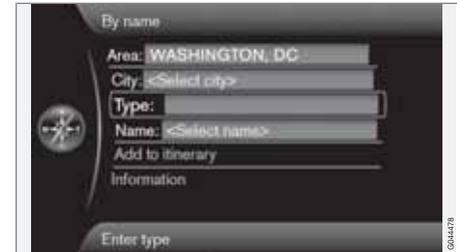
- Select **Type:** and specify the types of POIs to be included in the search.

To select the POIs to be permanently displayed on the map, go to the menu **Settings → POI on map** – see page 51.

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

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

By name



In addition to searching for a POI by general category (e.g., restaurants), the POI's name can be used. The procedure is the same as when searching by address, see page 38.

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

NOTE

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

Near the car

This performs a search of the area around the vehicle's current position.



Setting a destination

Along the route



This searches for POIs along a route in the itinerary.

Around point on map

This search is performed by scrolling the crosshairs on the map, see page 32.

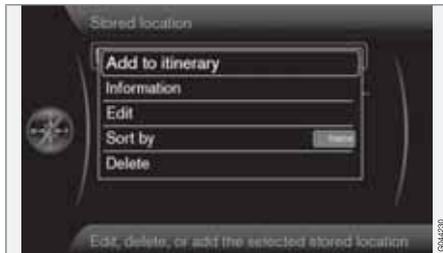
- The scroll map will be displayed. Move the crosshairs to the desired position and press **OK**.

Along the street



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

Stored locations



Set destination → Stored location

A large number of locations can be stored in the system, which can then be used to quickly set or change an itinerary.

Storing a location

To store the location of your choice:

1. Use the scroll function (see page 32) to select the location to be saved.
2. Press **OK** to open the crosshairs' menu.
3. Select **Store location + OK**. The location is now saved and will be added to the **Stored location** list.

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

Add to itinerary

This alternative opens the same window as for **Set destination → Address → Add to itinerary**, see page 44.

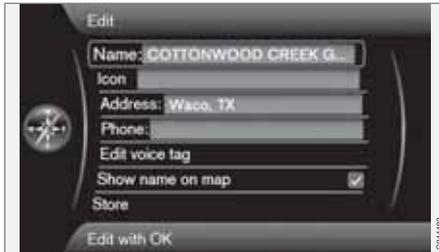
Information

This alternative opens the same window as for **Set destination → Address → Add to itinerary → Information**, see page 39.



Setting a destination

Edit



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

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

Sort by

Select to sort the entries in the list by:

- Name
- Icon
- Distance
- Chronological

Delete

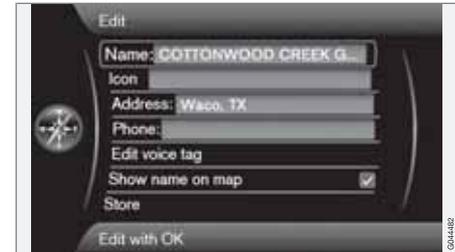
- Delete a stored location.

Previous destination



Existing destinations are stored here. Select one of them and then do one of the following:

- **Add to itinerary**
- **Facility information**
- **Store:** see the following illustration for more information.
- **Delete**
- **Delete all.**



Store displays this editing menu

Store displays the same editing menu as for **Stored location** → **Edit**.

For more information, see page 40.

- To supplement or change the information for a destination, select **Store + OK**.

Return trip

This alternative enables you to return to the itinerary's starting point and can be selected at any time during an itinerary.

Select among:

- **Start guidance**
- **Add to itinerary**
- **Edit itinerary:** select between **Clear itinerary** and **Route options**.



03 Planning your trip

Setting a destination

Searching for a location on the map



Set destination → Select point on map

This displays a map with the current location marked. See also "Scroll menu" on page 32.

- Turn **TUNE** to change the map scale.
1. Move the crosshairs using the number keys on the center console (6 to move right, 8 to move down, etc).
 2. When you have moved to the desired location, press **OK**.

Searching by latitude/longitude



Set destination → Latitude & longitude

Select a destination using its GPS coordinates:

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

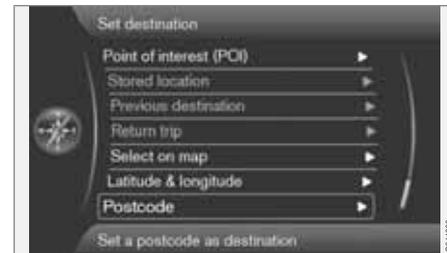
Add to itinerary

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

Information

This displays any available information about the location.

Zip code (post code)



Search for a destination using its zip code:



Setting a destination

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



NOTE

Zip codes/post codes may be presented differently, depending on the country/area.



Itinerary

Menu overview



Route details

(Route details)

The system can handle one Itinerary at a time with a maximum of 8 intermediate destinations.

The first destination entered becomes the final destination and any others are treated as intermediate destinations.

i NOTE

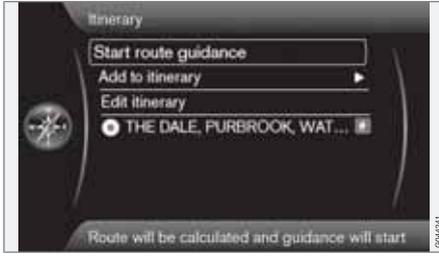
The menu selection **Itinerary** becomes accessible after a destination has been selected.

i NOTE

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

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

Setting an itinerary



Route details → Itinerary

(Route details > Itinerary)

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

Up to 8 intermediate destination can be set.

Start guidance

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



The result with "Itinerary 3" selected

If the setting to show 3 alternative itineraries is selected, one of them can be chosen, see the menu **Settings** → **Route options** → **Route proposals** on page 49.

Add to itinerary

Add an intermediate destination (uses the same menu as "Set destination.") See also page 38.

Editing an itinerary

The alternatives are:



Itinerary

- **Clear itinerary:** erase the current itinerary.
- **Route options:** opens a shortcut to **Settings** → **Route options**, see page 48.
- **Move in list:** change the order in which the intermediate destinations appear in the itinerary.
- **Adjust on map:** uses crosshairs on the map to mark a position. The crosshairs can be scrolled (moved) to another position, which can be selected by pressing **OK**. See page 32 for more information on the scroll function.
- **Store:** opens the menu **Set destination** → **Stored location** → **Edit**, see page 41.

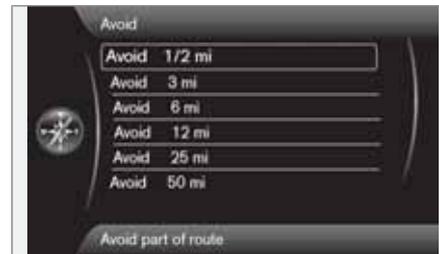
Intermediate destinations in an itinerary



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

- **Information:** complete name/address/ phone number (where applicable), and longitude and latitude. If a phone number is displayed, a call can be made through a Bluetooth®-enabled cell phone. See the section "Bluetooth® hands-free connection" in your Owners's Manual for additional information. Any POIs or parking areas near the destination or will be shown.
- **Delete:** remove the intermediate destination from the itinerary.

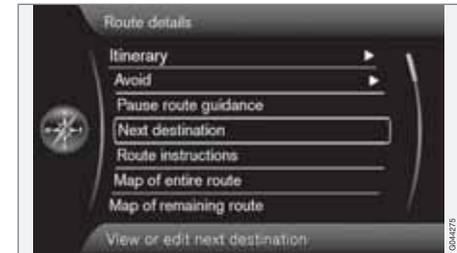
Avoiding areas



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

- Mark a selection and press **OK**.

Next destination



Route details → Next destination

(Route details > Next destination)



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



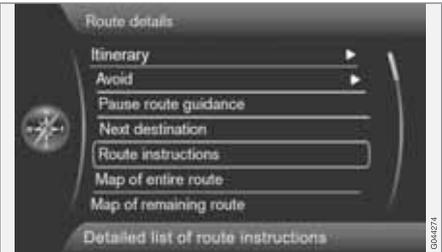
03 Planning your trip

03

Itinerary

- **Delete:** remove the current intermediate destination and show the next one.
- **Map:** show a position on the map with the Scroll menu, see page 32.
- **>>:** go to the next intermediate destination in the itinerary (at the end of the list, this will loop back to the beginning).
- **Call:** call the destination (where applicable).

Route instructions



Route details → Route instructions

(Route details > Route instructions)



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

Map of the entire route



Route details → Map of entire route

(Route details > Map of entire route)

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

Otherwise, the functions are the same as for the Scroll menu, see page 32.

Map of the remaining route

Route details → Map of remaining route

(Route details > Map of remaining route)

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

Otherwise, the functions are the same as for the Scroll menu, see page 32.

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

This feature displays a map with the vehicle's current location and information such as the location's name and coordinates.

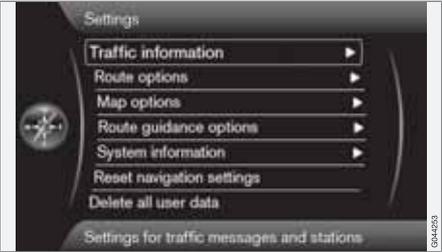


03 Planning your trip

03

Settings

Traffic information



Settings → Traffic information

(Settings > Traffic information)

Additional settings that can be made for Traffic information, see also page 60.

Traffic messages



Traffic message

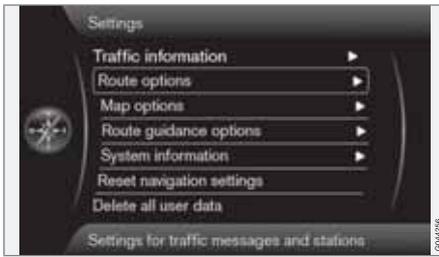
Traffic message (Traffic message)

Several selections can be made here for displaying traffic messages.

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

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

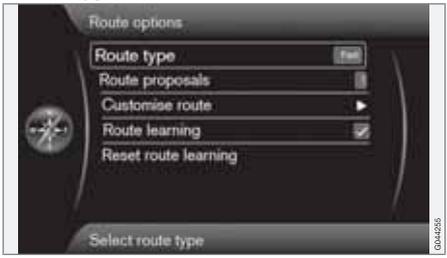
Route options



Settings → Route options

(Settings > Route options)

Route type



Route type (Route type)

The following types of routes can be selected:

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



Route proposal



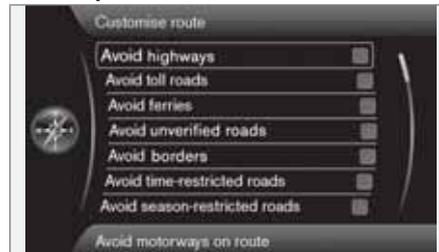
Route proposals (Route proposals)

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

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

See page 44 for more information.

Route options¹



Customize route (Customise route)

Select roads or other things that the system should avoid as far as possible when setting a route:

- **Avoid highways**
- **Avoid highways** (Avoid highways)
- **Avoid toll roads**
- **Avoid toll roads** (Avoid toll roads)
- **Avoid ferries**
- **Avoid ferries** (Avoid ferries)
- **Avoid time-restricted roads**
- **Avoid time-restricted roads** (Avoid time-restricted roads)
- **Avoid season-restricted roads**

- **Avoid season-restricted roads** (Avoid season-restricted roads)
- **Avoid unverified roads**
- **Avoid borders**

NOTE

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

Route learning

Route learning (Route learning)

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

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

¹ These options vary, depending on the area/market/state.



Settings

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

Reset route learning

This deletes the "learned" route.

Map options



Settings → Map options

(Settings > Map options)

Map colors

Map colors (Map colors)

Choose between:

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

Single map settings

Single map settings (Single map settings)

- **Map orientation:** select **Heading** or **North**.

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

Heading: the "car" symbol will be in the center of the map and will always point upward. The map will rotate under the symbol, depending on the direction of the road.

- **Map view:** select **2D** or **3D**².

2D: the "car" symbol and map will always be viewed from above.

3D: the "car" symbol and map will be viewed at an angle from above or from the side.

Show dual map mode



Show dual map mode (Show dual map mode)



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



Settings

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

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

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)

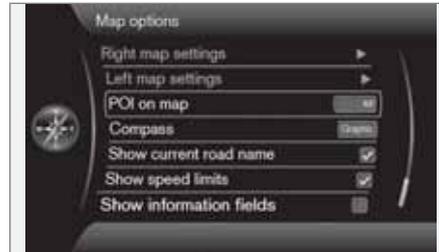
This is the same as for left map settings.

Map scale in dual map mode

To view each map in different scales:

1. From map view, turn **TUNE** clockwise or counter-clockwise to highlight the map on the right or left side of the screen.
2. Press **OK** to "activate" the highlighted side of the screen.
3. Turn **TUNE** to adjust the map scale.
4. Press **OK** again to confirm the new map scale and to "deactivate" that side of the screen.

Points of interest (POIs) on the map



Right map settings (Right map settings)

Mark the alternatives for displaying points of interest on the map:

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

For a list of POIs, see page 66.

Compass

Compass (Compass)

Choose how the compass will be shown on the map:

- **Graphic**

- **Text:** the compass heading (upward on the screen) will be indicated by a letter, for example **N** for "North."

- **None.**

See page 31 for more information about the compass.

Show the current road name

Show current road name (Show current road name)

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

Show the current speed limit

Show speed limits (Show speed limits)

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

Show information fields

Show information fields (Show information fields)

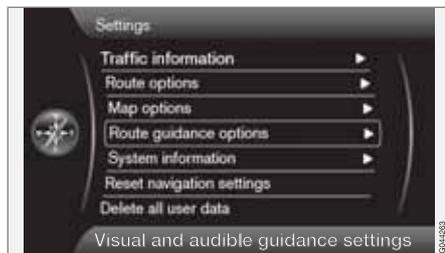
Mark this alternative to display any current traffic information at the top and bottom of the screen.

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



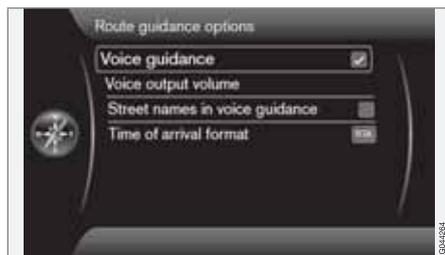
Settings

Guidance options



Settings → Guidance options

(Settings > Route guiding options)



Voice guidance

Voice guidance (Voice guidance)

Mark **Voice guidance** if you would like spoken instructions. See page 25 for additional information.

Voice volume

Voice guidance (Voice guidance)

This displays a volume control on the screen for setting the level for voice guidance.

- Adjust by turning **TUNE** and pressing **OK**. See page 21 for more information.

Street names in voice guidance

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

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

- Mark **Street names in voice guidance**.

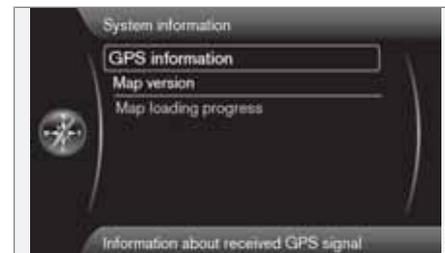
Time information

Time of arrival format (Time of arrival format)

Select the time-related information to be displayed:

- **ETA**³ (Estimated Time of Arrival)
- **RTA** (Remaining Time until Arrival)

System information



Settings → System information

GPS information



The screen shows:

- **Number of received satellites:**
- **Received position**

³ Default.



Settings

- Map-matched position
- Altitude:
- The geographic name of the current position.

Map version



The screen will display:

- **Software version:**
- **Map version:**
- **Map market:**

Map loading progress

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

Reset navigation settings



Settings → Reset navigation settings

This function returns all settings to the original (factory) system settings.

The menu alternative **Settings → Reset navigation settings + OK** displays: **Reset all navigation settings?**, Press **OK** to continue. Press **Exit** to cancel..

Delete all user data



Settings → Delete all user data

The menu alternative **Settings → Delete all user data + OK** displays: **Do you want to delete all navigation user data?**, Press **OK** to continue. Press **Exit** to cancel.

Pressing **OK** will delete the following information:

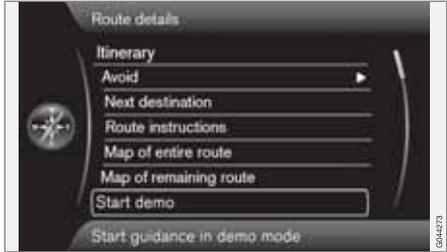
- all stored locations
- the **Last 5** locations
- previous destinations
- route learning information
- changes to factory settings



03 Planning your trip

Demo

Start the demo (system simulation)



Route details → Start demo

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

To interrupt the simulation:

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

NOTE

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

03



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0000000

04

TRAFFIC INFORMATION





04 Traffic information

Introduction

Display and reception

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

The way in which traffic information is presented can be set and changed in **Settings** → **Traffic information**, see page 48.

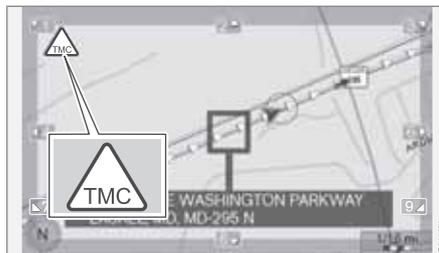
The way in which traffic information is presented is also affected by the way in which it is broadcast.

NOTE

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

The transmission range for traffic information is being increased continuously.

Traffic symbols on the map



Symbol for traffic information or problems

If there is at least one traffic message along the route, a TMC¹ symbol will be displayed in the upper left corner of the map.

Use the **scroll** function (see page 32) to scroll to the traffic problem to find its location and extent.

NOTE

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

Location on the map

Traffic problems are indicated by arrows, lines and boxes:

	Slow traffic
	Slow traffic in both directions
	Extent

Marker colors

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

Black	Road closed
Red	Traffic jam
Orange	Slow-moving traffic
Yellow	General information

Type of traffic disruption

The following table shows examples of the symbols² that may be used on the map to indicate different types of traffic disruptions:

¹ Traffic Message Channel

² These symbols may vary, depending on the state/market.



	Accident
	Contraflow (two-way traffic, single lanes in each direction)
	Detour (diversion)
	Information
	Narrow road
	Parking information
	Traffic jam
	Road work
	Slippery road
	Other hazard
	Road closed

Extent



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

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

Scale of the area for traffic information

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



04 Traffic information

Reading information

Read traffic message



A traffic problem and the area affected, marked by arrows



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

In order to read the traffic information:

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

Traffic information



Main menu

Traffic information

Read traffic message



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



1. Move the crosshairs to the traffic disruption (indicated by a colored line or arrows parallel with the road) that you would like information about. A traffic symbol with a box will begin to flash on the map.
2. Press **OK** and information similar to the illustration will be displayed:



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

**Reading information**

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

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

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

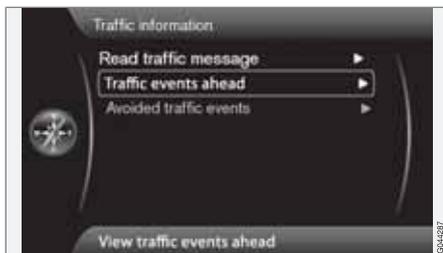
- Return to the map screen by pressing **EXIT**.



Dealing with traffic problems

Avoiding traffic disruptions

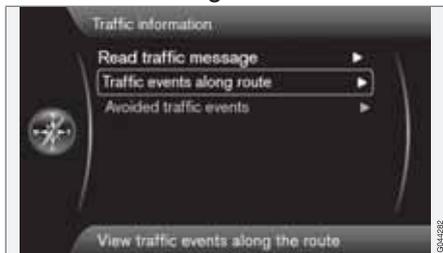
Traffic events ahead



Menu row 2 when **no** itinerary has been set.

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

Traffic events along route



Menu row 2 **with** a set itinerary.

This is the same menu row as in the previous section, but **with** a set itinerary. The text then

changes from **Traffic events ahead** to **Traffic events along route**. You can opt to have the system guide you around the traffic disruption on another route.

Press **OK** to list the traffic disruptions along the route.



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

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

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

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

To get detailed information about a listed traffic disruption:

- Select one from the list and press **# INFO** (on the center console control panel) to display the information.

Avoided traffic events



The marked traffic problems are listed here.



Dealing with traffic problems



A list with one alternative that can be edited.

The following can be done:

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



Detailed information, return to the menu by pressing **EXIT**.

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

Points of interest (POIs)..... 66



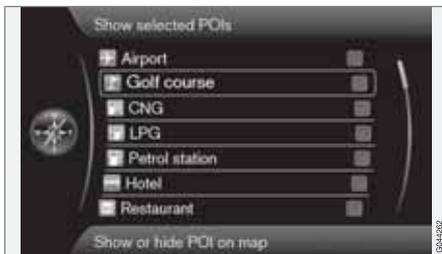
05

SYMBOLS ON THE MAP



Points of interest (POIs)

Specify individual POIs to be shown on the map or select **All** or **None**, see page 51.



Marked POIs will be shown on the map

Settings → Map options → POI on map
→ Selected

To do so:

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

NOTE

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

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

	Gas station
	Gas station with CNG (biogas)
	Gas station with LPG (liquid petroleum gas)
	Car wash
	Auto service & maintenance
	Rental Car Agency
	Car race track

	Volvo dealer
	Parking
	Parking garage
	Parking for large vehicles
	Tourist information
	Historical monument
	Tourist attraction
	Hockey rink
	Sports complex
	Exercise area
	Ski resort
	Movie theater
	Amusement park



Points of interest (POIs)

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

	Park & Recreation
	Rest area
	Hotel
	Convention/exhibition center
	Train/commuter train station
	Airport
	Bus station
	Ferry terminal
	Marina
	Municipal/government office
	Higher education/university
	City center
	Police station
	Fire station

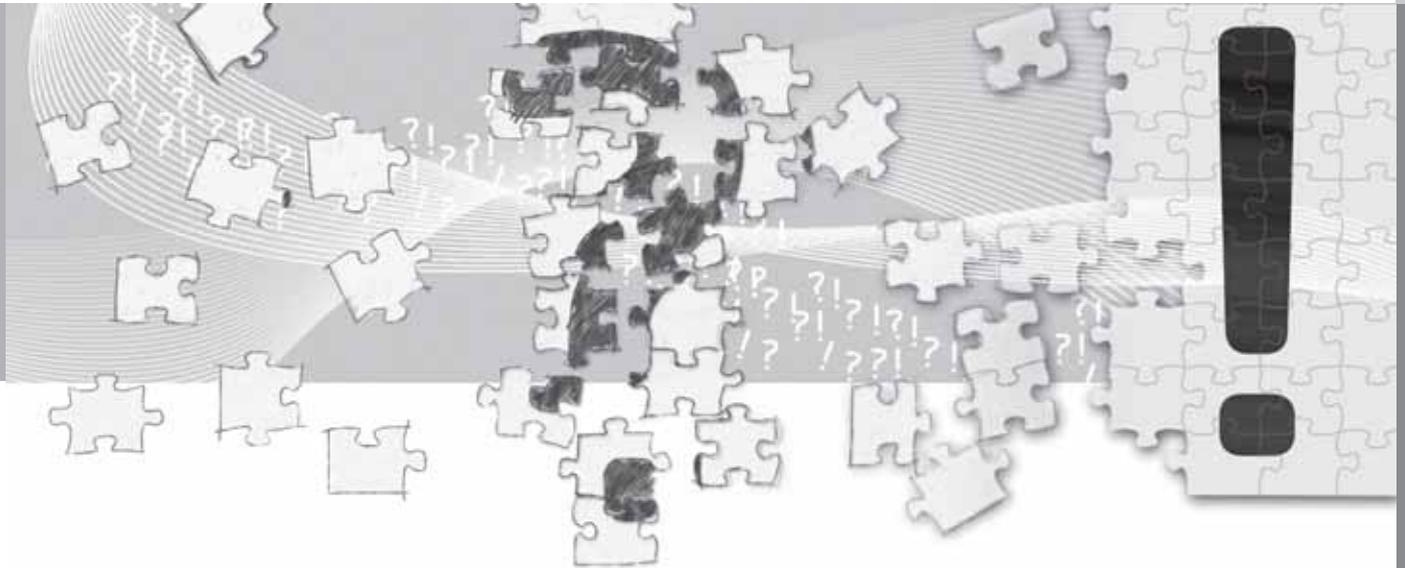
	Library
	Hospital
	Pharmacy
	Bank ATM
	Post
	School/daycare center
	Campground

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06

QUESTIONS & ANSWERS



Frequently asked questions

The vehicle's position on the map is incorrect.

The Global Positioning System (GPS) indicates the car's position with an accuracy of about 65 feet (20 meters).

Accuracy may be even less when driving on roads lying parallel to another road, winding roads, roads on several levels, and also after driving a long distance without making any distinct turns.

Tall buildings and mountains, tunnels, viaducts, over/underpasses etc., also have a negative affect on the reception of GPS signals, which means that the estimation of the car's position may not be precise.

VNS does not always calculate the fastest/shortest route.

Parameters such as distance, width of road, type of road, number of right or left turns, traffic circles etc., are all taken into account when calculating the best theoretical route. Experience and local knowledge may, however, lead to a better choice of route.

The VNS system chooses toll roads, freeways, and ferries even though I have opted to avoid them.

When calculating routes over longer distances, for technical reasons the system can only use major roads. If you select **NO** for toll roads and

freeways, they will be avoided as much as possible, but will be used if no other reasonable alternative is available.

After being transported, the car's position on the map is incorrect.

If the car is transported, for example by ferry or train, or in such a way as to impede the reception of GPS signals, it can take up to 5 minutes to calculate the car's new position correctly.

The vehicle's position on the map is incorrect after its battery has been disconnected.

If power has been cut from the GPS antenna, it can take more than 5 minutes for the GPS signals to be received correctly and the car's position to be calculated.

The car symbol on the map moves erratically after a tire change

In addition to the GPS receiver, the vehicle's speedometer and an onboard gyro are also used to calculate the vehicle's current location and direction of travel. If the spare tire is put on the vehicle, or is a change is made from summer to winter tires (or vice versa), the navigation system must "learn" the new dimensions of the tire(s). Therefore, it may be necessary to drive for several miles, including a number of turns, for the system to make this adjustment.

The map image does not correspond to actual conditions.

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

The maps and data on the DVDs are static. They will not automatically update to reflect real-life changes to road and traffic patterns. Updated DVDs are produced periodically. Please contact your Volvo retailer for more information about availability.

The map scale sometimes changes.

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

Certain menu options are not available.

Check the settings that you have made. Select **Reset to default** for the particular option to return to the default settings.

The car symbol on screen jumps forward or spins.

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

1. Switch off the VNS system and the ignition.



Frequently asked questions

2. Switch on the ignition again and restart VNS, but remain at a standstill for a short time before driving off.

I am planning a long trip but do not want to specify destinations in the cities that I will be passing through. What is the easiest way to set up an itinerary?

Select the final destination directly on the map using the cross hairs. The system will automatically guide you to the final destination even if you drive past intermediate destinations.

The system's map information is not up-to-date

Contact your Volvo retailer for updated map information.

**WARNING****Navigating safely**

Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.

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

What is the easiest way to check the current map version?

See **Settings** → **System information** → **Map version**: for information about the map version and which geographic area it covers.



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