

VOLVO C70 OWNERS MANUAL

Web Edition





DEAR VOLVO OWNER

THANK YOU FOR CHOOSING VOLVO

We hope you will enjoy many years of driving pleasure in your Volvo. The car has been designed for the safety and comfort of you and your passengers. Volvo is one of the safest cars in the world. Your Volvo has also been designed to satisfy all current safety and environmental requirements. In order to increase your enjoyment of the car, we recommend that you familiarise yourself with the equipment, instructions and maintenance information contained in this owner's manual.



Table of contents

00 Introduction

Important information	8
Volvo and the environment	12



Ø

01 Safety

Seatbelts	16
Airbag system	19
Airbags	20
Activating/deactivating the airbag*	22
Side airbags (SIPS bags)	24
Inflatable Curtain (DMIC)	26
WHIPS	27
Roll-Over Protection System (ROPS)	29
When the systems deploy	30
Crash mode	32
Child safety	33



02 Instruments and controls

Overview, left-hand drive cars	44
Overview, right-hand drive cars	46
Driver's door control panel	48
Combined instrument panel	49
Indicator and warning symbols	50
Information display	54
Electrical socket	56
Lighting panel	57
Left-hand stalk switch	61
Right-hand stalk switch	64
Cruise control*	66
Keypad in the steering wheel*	68
Steering wheel adjustment, hazard warn-	
ing flashers	69
Parking brake	70
Power windows	71
Windows, rearview and door mirrors	73
Personal preferences	77
HomeLink [®] *	80

Table of contents





03 Climate control

General information on climate control	86
Electronic climate control, ECC*	88
Air distribution	91
Fuel-driven engine block heater and pas- senger compartment heater*	92
Fuel-driven auxiliary heater* (diesel)	95



04 Interior

Front seats	98
Electrically operated roof	103
Wind deflector*	106
Interior lighting	107
Storage spaces in the passenger com- partment.	110
Cargo area	114



05 Locks and alarm

Remote control key with key blade	120
Active locks	123
Privacy locking*	124
Keyless drive*	126
Battery in remote control key	129
Locking and unlocking	130
Alarm*	134





06 Starting and driving

General	140
Refuelling	142
Alcolock*	146
Starting the engine	150
Keyless drive*	152
Manual gearbox	153
Automatic gearbox	154
Brake system	157
DSTC - Stability and traction control sys-	
tem*	159
Park Assist*	161
BLIS* – Blind Spot Information System	163
Towing and recovery	166
Start assistance	169
Driving with a trailer	170
Towing equipment*	172
Detachable towbar*	174
Loading	178
Adjusting headlamp pattern	179



07 Wheels and tyres

General	182
Tyre pressure	186
Warning triangle* and spare wheel *	187
Changing wheels	190
Emergency puncture repair*	192





08 Car care

Cleaning	198
Touching up paintwork	202
Rustproofing	203

Table of contents



(01 10 (00 11



09 Maintenance and service

Volvo service	206
Self-maintenance	207
Bonnet and engine compartment	208
Oils and fluids	210
Wiper blades	216
Battery	217
Replacing bulbs	219
Fuses	225



10 Infotainment system

General	234
Audio functions	236
Radio functions	241
CD functions	246
Menu structure – audio system	249
Phone functions*	250
Menu structure – phone*	257
Bluetooth handsfree*	260



11 Specifications

Type designation	268
Dimensions and weights	270
Engine specifications	273
Engine oil	274
Fluids and lubricants	276
Fuel	278
Wheel and tyres, dimensions and pres-	
sure	279
Electrical system	280
Type approval	282
Symbols in the display	283



Table of contents



12 Alphabetical Index



Table of contents(1)



Important information

Reading the Owner's Manual

Introduction

A good way of getting to know your new car is to read the owner's manual, ideally before your first journey. This will give you the opportunity to familiarise yourself with new functions, to see how best to handle the car in different situations, and to make the best use of all the car's features. Please pay attention to the safety instructions contained 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

Option

All types of option/accessory are marked with an asterisk*.

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

The equipment described in the owner's manual is not available in all cars - they have different equipment depending on adaptations for the needs of different markets and national or local laws and regulations. In the event of uncertainty over what is standard or an option/accessory, contact a Volvo dealer.

Special texts

🚹 WARNING

Warning texts advise of a risk of personal injury.

IMPORTANT

Important texts advise of a risk of material damage.

i note

NOTE texts give advice or tips that facilitate the use of features and functions for example.

Footnote

There is footnote information in the owner's manual that is located at the bottom of the page. This information is an addition to the text that it refers to via a number. If the footnote refers to text in a table then letters are used instead of numbers for referral.

Message texts

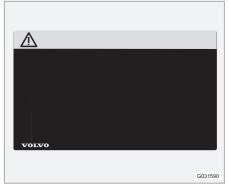
There are displays in the car that show text messages. These text messages are high-

lighted in the owner's manual by means of the text being slightly larger and printed in grey. Examples of this are in menu texts and message texts on the information display (e.g. AUDIO SETTINGS).

Decals

The car contains different types of decal which are designed to convey important information in a simple and clear manner. The decals in the car have the following descending degree of importance for the warning/information.

Warning for personal injury



Black ISO symbols on yellow warning field, white text/image on black message field. Used to indicate the presence of danger which, if the

Important information

warning is ignored, may result in serious personal injury or fatality.

Risk of property damage



White ISO symbols and white text/image on black or blue warning field and message field. Used to indicate the presence of danger which, if the warning is ignored, may result in damage to property. VOLVO

White ISO symbols and white text/image on black message field.

i) NOTE

Information

The labels shown in the owner's manual are not provided as exact reproductions of those in the car. The purpose is to show their approximate appearance and location in the car. The information that applies to your car in particular is available on the label in question in your car.

Procedure lists

Procedures where action must be taken in a certain sequence are numbered in the owner's manual.

- When there is a series of illustrations for step-by-step instructions each step is numbered in the same way as the corresponding illustration.
- A There are numbered lists with letters adjacent to the series of illustrations where the order of the instructions is not significant.
- Arrows appear numbered and unnumbered and are used to illustrate a movement.

If there is no series of illustrations for step-bystep instructions then the different steps are numbered with normal numbers.

Position lists

1 Red circles containing a number are used in overview images where different components are pointed out. The number recurs in the position list featured in connection with the illustration that describes the item.

Bulleted lists

A bulleted list is used when there is a list of points in the owner's manual.

Important information

- Coolant
- Engine oil

To be continued

>> This symbol is located furthest down to the right when a section continues on the following page.

Recording data

Your vehicle contains a number of computers whose function is to continuously check and monitor the vehicle's operation and functionality. Some of the computers can record information during normal driving if they detect an error. In addition, information is recorded in the event of a crash or incident. Parts of the recorded information are required so that technicians can diagnose and rectify faults in the vehicle during servicing and maintenance and so that Volvo can fulfil legal requirements and other regulations. In addition to this, the information is used for research purposes by Volvo in order to continually develop quality and safety, as the information can contribute to a better understanding of the factors that cause accidents and injuries. The information includes details of the status and functionality of various systems and modules in the vehicle with regard to engine, throttle, steering and brake systems, amongst other things. This information may include details regarding the

way the driver drives the vehicle, such as vehicle speed, brake and accelerator pedal use, steering wheel movement and whether or not the driver and passengers have used their seatbelts. For the reasons given this information may be stored in the vehicle's computers for a certain length of time, but also as a result of a collision or incident. This information may be stored by Volvo as long as it can help to further develop and further enhance safety and quality and as long as there are legal requirements and other regulations that Volvo needs to consider.

Volvo will not contribute to the above-described information being disclosed to third parties without the vehicle owner's consent. However, due to national legislation and regulations Volvo may be required to disclose such information to authorities such as police authorities, or others who may assert a legal right to have access to it.

To be able to read and interpret the information recorded by the computers in the vehicle requires special technical equipment that Volvo, and workshops that have entered into agreements with Volvo, have access to. Volvo is responsible that the information, which is transferred to Volvo during servicing and maintenance, is stored and handled in a secure manner and that the handling complies with applicable legal requirements. For further information - contact a Volvo dealer.

Accessories and extra equipment

The incorrect connection and installation of accessories can negatively affect the car's electrical system. Certain accessories only function when their associated software is installed in the car's computer system. We therefore recommend that you always contact an authorised Volvo workshop before installing accessories which are connected to or affect the electrical system.

Change of ownership for cars with Volvo On Call *

Volvo On Call is a supplemental service that consists of safety, security and comfort services. If the car has Volvo On Call and there is a change of owner, it is very important that these services are discontinued so that the former owner cannot access the services in the car. Contact the call centre by pressing the **ON CALL** button in the car or contact an authorised Volvo workshop. See also "Changing the security code" in the owner's manual for Volvo On Call.

î

Important information

Information on the Internet

At www.volvocars.com there is further information concerning your car.

Volvo and the environment

Volvo Cars' environmental philosophy



Environmental care is one of Volvo Car Corporation's core values which influence all operations. We also believe that our customers share our consideration for the environment.

Your Volvo complies with strict international environmental standards and is also manufactured in one of the cleanest and most resourceefficient plants in the world. Volvo Car Corporation has global ISO certification, which includes the environmental standard ISO 14001 covering all factories and several of our other units. We also set requirements for our partners so that they work systematically with environmental issues.

Fuel consumption

Volvo cars have competitive fuel consumption in each of their respective classes. Lower fuel consumption generally results in lower emission of the greenhouse gas, carbon dioxide.

It is possible for the driver to influence fuel consumption. For more information read under the heading, **Reducing environmental impact**.

Efficient emission control

Your Volvo is manufactured following the concept "Clean inside and out" – a concept that encompasses a clean interior environment as well as highly efficient emission control. In many cases the exhaust emissions are well below the applicable standards.

Clean air in the passenger compartment

A passenger compartment filter prevents dust and pollen from entering the passenger compartment via the air intake.

A sophisticated air quality system, IAQS* (Interior Air Quality System) ensures that the incoming air is cleaner than the air in the traffic outside.

The system consists of an electronic sensor and a carbon filter. The incoming air is monitored continuously and if there is an increase in

Volvo and the environment

the level of certain unhealthy gases such as carbon monoxide then the air intake is closed. Such a situation may arise in heavy traffic, queues and tunnels for example.

The entry of nitrous oxides, ground-level ozone and hydrocarbons is prevented by the carbon filter.

Interior

The interior of a Volvo is designed to be pleasant and comfortable, even for people with contact allergies and for asthma sufferers. Extreme attention has been given to choosing environmentally-compatible materials.

Volvo workshops and the environment

Regular maintenance creates the conditions for a long service life and low fuel consumption for your car. In this way you contribute to a cleaner environment. When Volvo's workshops are entrusted with the service and maintenance of your car it becomes part of our system. We make clear demands regarding the way in which our workshops are designed in order to prevent spills and discharges into the environment. Our workshop staff have the knowledge and the tools required to guarantee good environmental care.

Reducing environmental impact

You can easily help reduce environmental impact - here are a few tips:

- Avoid letting the engine idle switch off the engine when stationary for longer periods. Pay attention to local regulations.
- Drive economically think ahead.
- Perform service and maintenance in accordance with the owner's manual's instructions - follow the Service and Warranty Booklet's recommended intervals.
- If the car is equipped with an engine block heater*, use it before starting from cold - it improves starting capacity and reduces wear in cold weather and the engine reaches normal operating temperature more quickly, which lowers consumption and reduces emissions.
- High speed increases consumption considerably due to increased wind resistance
 a doubling of speed increases wind resistance 4 times.
- Always dispose of environmentally hazardous waste, such as batteries and oils, in an environmentally safe manner. Consult a workshop in the event of uncertainty about how this type of waste should be discarded - an authorised Volvo workshop is recommended.

Following this advice can save money, the planet's resources are saved, and the car's durability is extended. For more information and further advice, see the pages 140 and 278.

Recycling

As a part of Volvo's environmental work, it is important that the car is recycled in an environmentally sound manner. Almost all of the car can be recycled. The last owner of the car is therefore requested to contact a dealer for referral to a certified/approved recycling facility.

The owner's manual and the environment

The Forest Stewardship Council[®] symbol shows that the paper pulp in this publication comes from FSC[®] certified forests or other controlled sources.



Seatbelts	16
Airbag system	19
Airbags	20
Activating/deactivating the airbag*	22
Side airbags (SIPS bags)	24
Inflatable Curtain (DMIC)	26
WHIPS	27
Roll-Over Protection System (ROPS)	29
When the systems deploy	
Crash mode	32
Child safety	33





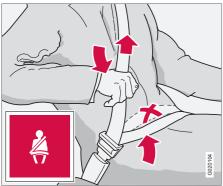
(

SAFETY



Seatbelts

General information



Tensioning the hip strap. The belt must be positioned low down.

Heavy braking can have serious consequences if the seatbelts are not used. Ensure that all passengers use their seatbelts. It is important that the seatbelt lies against the body so it can provide maximum protection. Do not lean the backrest too far back. The seatbelt is designed to protect in a normal seating position.

Putting on a seatbelt

 Pull the seatbelt out slowly and secure it by pressing the buckle into the lock. A loud "click" indicates that the seatbelt has locked.

Releasing the seatbelt

 Press the red lock button and then let the seatbelt retract. If the seatbelt does not retract fully, feed the seatbelt in by hand so that it does not hang loose.

The seatbelt locks and cannot be withdrawn:

- if it is pulled out too quickly
- during braking and acceleration
- if the car leans heavily.

Keep in mind the following

- do not use clips or anything else that can prevent the seatbelt from fitting properly
- ensure that the seatbelt is not twisted or caught on anything
- the hip strap must be positioned low down (not over the abdomen)
- tension the hip strap over the lap by pulling the diagonal shoulder belt as illustrated.

🔥 WARNING

The seatbelts and airbags interact. If a seatbelt is not used or is used incorrectly, this may diminish the protection provided by the airbag in the event of a collision.

\Lambda WARNING

Each seatbelt is designed for only one person.

🚹 WARNING

Never modify or repair the seatbelt yourself. Volvo recommends that you contact an authorised Volvo workshop. If the seatbelt has been subjected to a major load, such as in conjunction with a collision, the entire seatbelt must be replaced. Some of the seatbelt's protective properties may have been lost even if the seatbelt does not appear damaged. The seatbelt must also be replaced if it shows signs of wear or damage. The new seatbelt must be typeapproved and designed for installation at the same location as the replaced seatbelt.

🚹 WARNING

The rear seat is designed for a maximum of two passengers.

01



01

Seatbelts and pregnancy



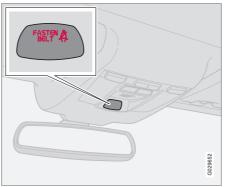
The seatbelt should always be worn during pregnancy. But it is crucial that it be worn in the correct way. The diagonal section of the seatbelt should wrap over the shoulder then be routed between the breasts and to the side of the abdomen.

The lap section of the seatbelt should lay flat over the thighs and as low as possible under the abdomen. – It must never be allowed to ride upward. Remove the slack from the seatbelt and ensure that it fits as close to the body as possible. In addition, check that there are no twists in the seatbelt.

As a pregnancy progresses, pregnant drivers should adjust their seats and steering wheel

such that they can easily maintain control of the vehicle as they drive (which means that they must be able to easily operate the foot pedals and steering wheel). They should strive to position the seat with as large a distance as possible between their abdomen and the steering wheel.

Seatbelt reminder



Unbelted occupants will be reminded to fasten their seatbelts by means of an audio and visual reminder. The audio reminder is speed dependent, and in some cases time dependent. The visual reminder is located in the roof console and the combined instrument panel. Child seats are not covered by the seatbelt reminder system.

Rear seat

The seatbelt reminder in the rear seat has two subfunctions:

- Provides information on which seatbelts are being used in the rear seat. A message is shown in the information display when the seatbelts are used. The message is cleared automatically after driving for approximately 30 seconds or after pressing the indicator stalk's **READ** button.
- Provides a warning if one of the rear seatbelts is unfastened during a journey. This warning takes the form of a message on the information display along with the audio/visual signal. The warning ceases when the seatbelt is re-fastened or when acknowledged manually by pressing the **READ** button.

The message on the information display showing which seatbelts are in use is always available. Press the **READ** button to see stored messages.

Certain markets

An audio signal and indicator lamp remind the driver if not wearing a seatbelt to use one. At low speed, the audio reminder will sound for the first 6 seconds.



Seatbelts

01

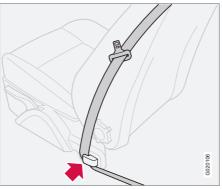
Seatbelt tensioner

All the seatbelts are equipped with seatbelt tensioners. A mechanism in the seatbelt tensioner tightens the seatbelt in the event of a sufficiently violent collision. The seatbelt then provides more effective restraint for occupants.

\Lambda WARNING

Never insert the tongue of the passenger's seatbelt into the buckle on the driver's side. Always insert the tongue of the seatbelt into the buckle on the correct side. Do not make any damages on seatbelts nor insert any foreign objects into a buckle. The seatbelts and buckles would then possibly not function as intended in the event of a collision. There is a risk of serous injury.

Seatbelt guide

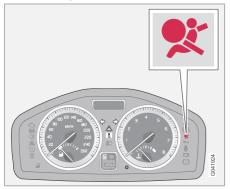


The seatbelt guide is fitted on both the driver's seat and passenger seat.

The seatbelt guide is an aid for providing better access to the seatbelt. When getting into and out of the rear seat, remove the seatbelt from the seatbelt guide and position it furthest back on the seatbelt bar. Refit the seatbelt into the seatbelt guide afterwards.

Airbag system

Warning symbol on the combined instrument panel



The warning symbol in the combined instrument panel illuminates when the remote control key is turned to key position **I**, **II** or **III**. The symbol goes out after approx. 6 seconds provided the airbag system is fault-free.



As well as the warning symbol, a message may appear on the display in appropriate cases. If the warning symbol malfunctions, the warning triangle illuminates and the message SRS AIRBAG SERVICE REQUIRED or SRS AIRBAG SERVICE URGENT appears in the display. Volvo rec-

ommends that you contact an authorised Volvo workshop immediately.

🚹 WARNING

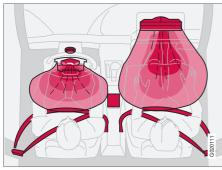
If the warning symbol for the airbag system remains illuminated or illuminates while driving, it means that the airbag system does not have full functionality. The symbol indicates a fault in the seatbelt tensioner system, SIPS, SRS or the IC system. Volvo recommends that you contact an authorised Volvo workshop immediately.



01

Airbags

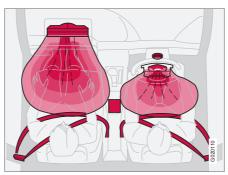
Airbag system



SRS system, left-hand drive

The system consists of airbags and sensors. A sufficiently violent collision trips the sensors and the airbag(s) are inflated with hot gas. To cushion the impact, the airbag deflates when compressed. When this occurs, smoke escapes into the car. This is completely normal. The entire process, including inflation and deflation of the airbag, takes place within tenths of a second.

Volvo recommends that you contact an authorised Volvo workshop for repair. Defective work in the airbag system could cause malfunction and result in serious personal injury.



SRS system, right-hand drive

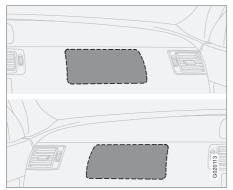
The sensors react differently depending on the course of the collision and whether or not the seatbelts on the driver's side and passenger side are used.

It is therefore possible that only one (or none) of the airbags may inflate in a collision. The airbag system senses the force of the collision on the car and adapts accordingly so that one or more airbags is deployed.

The capacities of the airbags are also adapted to the collision force to which they are subjected.

Airbags

01



Location of the passenger airbag in left-hand drive and right-hand drive cars.

\Lambda WARNING

Do not put objects in front of or above the instrument panel where the passenger airbag is located.

Airbag on the driver's side

The car has an airbag to supplement the protection afforded by the seatbelt on the driver's side. It is folded up into the centre of the steering wheel. The steering wheel is marked **SRS AIRBAG**.

🚹 WARNING

The seatbelts and airbags interact. If a seatbelt is not used or is used incorrectly, this may diminish the protection provided by the airbag in the event of a collision.

Passenger airbag

The car has an airbag to supplement the protection afforded by the seatbelt on the passenger side. It is folded up into a compartment above the glovebox. The cover panel is marked **SRS AIRBAG**.

To minimise the risk of injury if the airbag deploys, passengers must sit as upright as possible with their feet on the floor and back against the backrest. Seatbelts must be secured.

\Lambda WARNING

Never place a child in a child seat or on a booster cushion in the front seat if the airbag is activated.¹

Never allow anybody to stand or sit in front of the front passenger seat. Children under 140 cm must never sit in the front passenger seat if the airbag is activated.

Failure to follow the advice given above can endanger life.

¹ For information on activated/deactivated airbag, see page 22.



Activating/deactivating the airbag*

Key switch off - PACOS*

General information

The airbag for the front passenger seat can be deactivated if the car is equipped with a switch, PACOS (Passenger Airbag Cut Off Switch). For information on how to activate/deactivate, see under the heading Activating/deactivating.

Key switch off/switch

The switch for the passenger airbag (PACOS) is located on the passenger end of the instrument panel and is accessible when the passenger door is open, (see under the heading below, Activating/deactivating).

Check that the switch is in the required position. Volvo recommends that the key blade is used to change position.

For information on the key blade, see page 121.

🔥 WARNING

Failure to follow the advice given above can endanger life.

🛕 WARNING

If the car is equipped with a front passenger airbag, but does not have a switch (PACOS), then the airbag will always be activated.

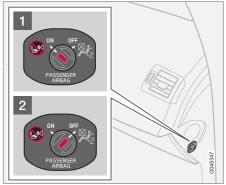
📐 WARNING

Never place a child in a child seat or on a booster cushion in the front seat if the airbag is activated and the symbol \bigcirc in the roof console is illuminated. Failure to follow this advice could endanger the life of the child.

🚹 WARNING

Do not allow anyone to sit in the front passenger seat if the text message in the roof console indicates that the airbag is deactivated, and if the warning symbol for the airbag system is also displayed on the combined instrument panel. This indicates that there has been a severe malfunction. Volvo recommends that you visit an authorised Volvo workshop as soon as possible.

Activating/deactivating



Switch location

- The airbag is activated. With the switch in this position, children taller than 140 cm can sit in the front passenger seat, but never children in a child seat or on a booster cushion.
- 2 The airbag is deactivated. With the switch in this position, children in a child seat or on a booster cushion can sit in the front passenger seat, but never persons taller than 140 cm.

Activating/deactivating the airbag*

🚹 WARNING

Activated airbag (passenger seat):

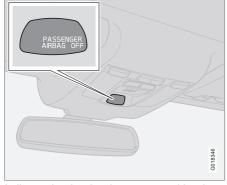
Never place a child in a child seat or on a booster cushion on the front passenger seat when the airbag is activated. This applies to everyone shorter than 140 cm.

Deactivated airbag (passenger seat):

No one taller than 140 cm should ever sit in the front passenger seat when the airbag is deactivated.

Failure to follow the advice given above can endanger life.

Messages



Indicator showing that the passenger airbag is deactivated.

A text message and a symbol in the roof console indicate that the airbag for the front passenger seat is deactivated (see preceding illustration).

DDDA4

Indicator showing that the passenger airbag is activated.

A warning symbol in the roof console indicates that the airbag for the front passenger seat is activated (see preceding illustration).

ΝΟΤΕ

When the remote control key is turned to key position **II** or **III** the warning symbol for the airbag is displayed on the combined instrument panel for approx. 6 seconds, see page 19.

Following which, the indicator in the roof console is illuminated showing the correct status for the front passenger seat airbag. For more information about the different key positions, see page 150.

01

Side airbags (SIPS bags)

Side airbag



Side airbag locations.

In a side impact collision a large proportion of the collision force is transferred by the SIPS (Side Impact Protection System) to beams, pillars, the floor, the roof and other structural parts of the body. The side airbags at the driver's and front passenger seats protect the chest area and are an important part of the SIPS. The side airbags are located in the front seat backrests.

WARNING

- Volvo recommends that repairs are only carried out by an authorised Volvo workshop. Defective work in the SIPSbag system could cause malfunction and result in serious personal injury.
- Do not place any objects in the area between the outside of the seat and the door panel, since this area is required by the side airbag.
- Volvo recommends the use only of car seat covers approved by Volvo. Other seat covers may impede the operation of the side airbags.
- Side airbags are a supplement the seatbelts. Always use a seatbelt.

Child seats and side airbags

The protection provided by the car to children seated in a child seat or on a booster cushion is not diminished by the side airbag.

A child seat or booster cushion can be placed on the front passenger seat provided that the car does not have an activated¹ passenger airbag.

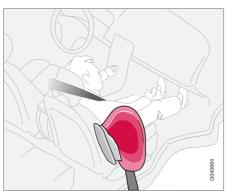
Location



Driver's seat, left-hand drive.

¹ For information on activated/deactivated airbag (SRS), see page 22.





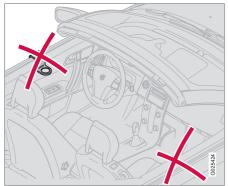
Front passenger seat, left-hand drive.

The SIPS bag system consists of side airbags and sensors. A sufficiently violent collision trips the sensors and the side airbags are inflated. The airbag inflates between the occupant and the door panel and thereby cushions the initial impact. The airbag deflates when compressed by the collision. The side airbag is normally only deployed on the side of the collision.

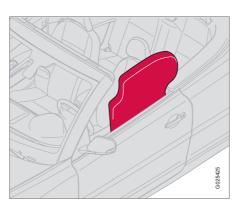


Inflatable Curtain (DMIC)

Properties



The inflatable curtain, DMIC (Door Mounted Inflatable Curtain), is a supplement to the SIPS system. It is fitted along the inside of the driver's and passenger doors and protects both front seat occupants. The inflatable curtain is activated by sensors in the event of a sufficiently violent collision or if the car is at risk of overturning. When deployed, the inflatable curtain inflates. The inflatable curtain helps to prevent the driver and front seat passenger from striking their heads on the inside of the car during a collision. The inflatable curtain is deployed irrespective of whether the roof is open or closed.



🚹 WARNING

Do not screw or install anything onto the car's headlining or side panels. This could compromise the intended protection. Volvo recommends that you only ever use Volvo genuine parts that are approved for placement in these areas.

🚹 WARNING

The inflatable curtain is a supplement to the seatbelts.

Always use a seatbelt.

There is a risk of personal injury if the driver or passenger is leaning against the door panel when the inflatable curtain deploys. This could also compromise the intended protection.

WHIPS

01

Protection against whiplash injury - WHIPS





The whiplash protection system (WHIPS) consists of energy absorbing backrests and specially designed head restraints for the front seats. The system is actuated by a rear-end collision, where the angle and speed of the collision, and the nature of the colliding vehicle all have an influence.

🚹 WARNING

The WHIPS system is a supplement to the seatbelts. Always use a seatbelt.

Properties of the seat

When the WHIPS system is deployed, the front seat backrests are lowered backward to alter the seating position of the driver and front seat passenger. This reduces the risk of whiplash injury.

020347

\Lambda WARNING

Never modify or repair the seat or WHIPS system yourself. Volvo recommends that you contact an authorised Volvo workshop.

WHIPS system and child seats/booster cushions

The protection provided by the car to children seated in a child seat or on a booster cushion is not diminished by the WHIPS system.

Correct seating position

For the best possible protection, the driver and front seat passenger should sit in the centre of the seat with as little space as possible between the head and the head restraint.



WHIPS

01 Safety

01

Do not obstruct the WHIPS system



Do not leave any objects on the floor behind the driver's seat/passenger seat that may prevent the WHIPS system from functioning.

WARNING

Do not squeeze rigid objects between the rear seat cushion and the front seat backrest. Make sure you do not to obstruct the function of the WHIPS system.

\wedge WARNING

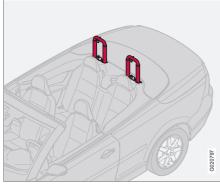
If a seat has been subjected to extreme forces, such as due to a rear-end collision, the WHIPS system must be checked. Volvo recommends that it is checked by an authorised Volvo workshop.

Part of the WHIPS system's protective capacity may have been lost even if the seats appear to be undamaged.

Volvo recommends that you contact an authorised Volvo workshop to have the system checked even after a minor rear-end collision.

Roll-Over Protection System (ROPS) 01

ROPS function



\Lambda WARNING

Do not carry out any work on the ROPS system.

Do not place any objects on the ROPS system or behind the passengers' head restraints.

Roll bars in raised position.

The ROPS system consists of strong roll bars which are located behind the passengers' head restraints, as well as sensors. In the event of a situation where the car is at risk of overturning, or in the event of a sufficiently violent collision from behind, the sensors detect this and the roll bars rise up behind the passengers' heads. The roll bars are deployed irrespective of whether the roof is open or closed.

Volvo recommends that you always contact an authorised Volvo workshop if the ROPS system has deployed.



When the systems deploy

Activating the systems

System	Triggered
Seatbelt tensioner, front seat	In a frontal collision and/or side-impact accident and/or rear-end collision and/or overturning.
Seatbelt tensioner, rear seat	In a frontal collision and/or side-impact accident and/or overturning.
Airbags	In a frontal collision ^A
Side airbags (SIPS)	In a side-impact accident ^A
Inflatable Curtain DMIC	In a side-impact accident and/or overturning ^A
Whiplash protection WHIPS	In a rear-end collision.
Roll-Over Protection System (ROPS)	In the event of overturning and/or collision from behind.

A The bodywork of the car could be greatly deformed in a collision without airbag deployment. A number of factors such as the rigidity and weight of the object hit, the speed of the car, the angle of the collision etc. affects how the different safety systems of the car are activated.

If the airbags have been deployed, the following is recommended:

- Recovering the car. Volvo recommends that you have it conveyed to an authorised Volvo workshop. Do not drive with deployed airbags.
- Volvo recommends that you engage an authorised Volvo workshop to handle the replacement of components in the car's safety systems.
- Always contact a doctor.

NOTE

The airbag, SIPS, DMIC, belt tensioner and ROPS systems are deployed only once during a collision.

\Lambda WARNING

The airbag system's control module is located in the centre console. If the centre console is drenched with water or other liquid, disconnect the battery cables. Do not attempt to start the car since the airbags may deploy. Recovering the car. Volvo recommends that you have it conveyed to an authorised Volvo workshop.

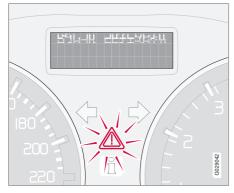


\Lambda WARNING

Never drive with deployed airbags. They can make steering difficult. Other safety systems may also be damaged. The smoke and dust created when the airbags are deployed can cause skin and eye irritation/ injury after intensive exposure. In case of irritation, wash with cold water. The rapid deployment sequence and airbag fabric may cause friction and skin burns.

Crash mode

Driving after a collision



If the car is involved in a collision, the text **CRASH MODE SEE MANUAL** may appear on the information display. This means that the car has reduced functionality. Crash mode is a protective state that is enforced when the collision may have damaged any of the car's vital functions, such as the fuel lines, sensors for one of the safety systems, or the brake system.

Attempting to start the car

First, check that no fuel is leaking from the car. There must be no smell of fuel either.

If everything seems normal and you have checked for indications of fuel leakage, you may attempt to start the car. Firstly, remove the remote control key and then reinsert it. The car's electronics will then try to reset themselves to normal mode. Then try to start the car. If **CRASH MODE SEE MANUAL** is still shown on the display then the car must not be driven or towed. Even if the car appears to be driveable, hidden damage may make the car impossible to control once moving.

Moving the car

If NORMAL MODE is shown after CRASH MODE SEE MANUAL has been reset, the car can be moved carefully out of a dangerous position. Do not move the car further than necessary.

\Lambda WARNING

Never attempt to repair your car or reset the electronics yourself if the car has been in crash mode. This could result in personal injury or the car not functioning as normal. Volvo recommends that you always engage an authorised Volvo workshop to check and restore the car to NORMAL MODE after CRASH MODE SEE MANUAL has been displayed.

\Lambda WARNING

Never, under any circumstances, attempt to restart the car if it smells of fuel when the **CRASH MODE SEE MANUAL** message is displayed. Leave the car at once.

If the car is in crash mode it must not be towed. It must be transported from its location. Volvo recommends that you have it conveyed to an authorised Volvo workshop.

01

Child safety

01

Children should sit comfortably and safely

Volvo recommends that children travel in rearfacing child seats until as late an age as possible, at least until 3-4 years of age, and then front-facing booster cushions/child seats until up to 10 years of age.

The position of a child in the car and the choice of equipment are dictated by the child's weight and size, for more information, see page 35.

i note

Regulations regarding the placement of children in cars vary from country to country. Check what does apply.

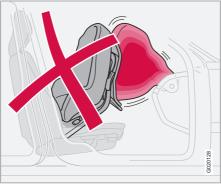
Children of all ages and sizes must always sit correctly secured in the car. Never allow a child to sit on the knee of a passenger.

Volvo has child safety equipment (child seats, booster cushions & attachment devices) which is designed for your particular car. Using Volvo's child safety equipment provides you with optimum conditions for your child to travel safely in the car. Furthermore, the child safety equipment fits and is easy to use.

I) NOTE

In the event of questions when fitting child safety products, contact the manufacturer for clearer instructions.

Child seats



Child seats and airbags are not compatible.

i) NOTE

When using child safety products it is important to read the installation instructions included with the product. Do not attach the straps for the child seat to the horizontal adjustment bar, springs, rails or beams under the seat. Sharp edges can damage the straps.

Look in the installation instructions for the child seat for the correct fitting.

Location of child seats

You may place:

- a child seat/booster cushion on the front passenger seat, provided the passenger airbag is not activated¹.
- one or more child seats/booster cushions in the rear seat.

Always fit child seats/booster cushions in the rear seat if the passenger airbag is activated. A child in the front passenger seat could suffer serious injury if the airbag deploys.

¹ For information on activated/deactivated airbag, see page 22.



01

Child safety

Never place a child in a child seat or on a booster cushion in the front seat if the airbag is activated².

No one shorter than 140 cm should ever sit in the front passenger seat if the airbag is activated.

Failure to follow the advice given above can endanger life.

MARNING

Booster cushions/child seats with steel braces or some other design that could rest on the seatbelt buckle's opening button must not be used, as they could cause the seatbelt buckle to open accidentally.

Do not allow the upper section of the child seat to rest against the windscreen.

Label Airbag



Label fitted on the end face of the instrument panel on the passenger side, see the illustration on page 22.

² For information on activating/deactivating the airbag (SRS), see page 22.

01 Safety

 \otimes

01

Child safety

Recommended child seats³

Weight	Front seat ^A	Rear seat
Group 0		Volvo infant seat (Volvo Infant Seat) - rear-facing child seat,
max. 10 kg		secured with the ISOFIX fixture system. Type approval: E1 04301146
Group 0+		(L)
max. 13 kg	Volvo infant seat (Volvo Infant Seat) - rear-facing child seat, secured with the car's seatbelt.	Volvo infant seat (Volvo Infant Seat) - rear-facing child seat, secured with the car's seatbelt.
	Type approval: E1 04301146	Type approval: E1 04301146
	(U)	(U)
	Rear-facing child seat (Child Seat) - rear-facing child seat, secured with the car's seatbelt and straps. Use a protective	Rear-facing child seat (Child Seat) - rear-facing child seat, secured with the car's seatbelt, straps and support legs.
	cushion between the child seat and the dashboard.	Type approval: E5 03135
	Type approval: E5 03135	(L)
	(L)	
	Child seats which are universally approved.	Child seats which are universally approved.
	(U)	(U)

³ With regard to other child seats the car should be included in the manufacturer's enclosed list of vehicles or be universally approved in accordance with the ECE R44 legal requirement.



01 Safety

Child safety	Child safety					
Weight	Front seat ^A	Rear seat				
Group 1 9 – 18 kg	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - rear-facing child seat, secured with the car's seatbelt and straps. Type approval: E5 04192 (L)	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - rear-facing child seat, secured with the car's seatbelt and straps. ^B Type approval: E5 04192 (L)				
	Rear-facing child seat (Child Seat) - rear-facing child seat, secured with the car's seatbelt and straps. Use a protective cushion between the child seat and the dashboard. Type approval: E5 03135 (L)	Rear-facing child seat (Child Seat) - rear-facing child seat, secured with the car's seatbelt, straps and support legs. ^B Type approval: E5 03135 (L)				
		Britax Fixway – rear-facing child seat, secured with the ISOFIX fixture system and straps. ^B Type approval: E5 03171 (L)				
	Child seats which are universally approved. (U)	Child seats which are universally approved. (U)				

01 Safety

 (\mathbf{S})

01

Child safety

Weight	Front seat ^A	Rear seat
Group 2 15-25 kg	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - rear-facing child seat, secured with the car's seatbelt	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - rear-facing child seat, secured with the car's seatbelt
	and straps. Type approval: E5 04192	and straps ^B Type approval: E5 04192
	(L)	(L)
	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - front-facing child seat, secured with the car's seatbelt.	Volvo rear-facing/turnable child seat (Volvo Convertible Child Seat) - front-facing child seat, secured with the car's seatbelt.
	Type approval: E5 04191	Type approval: E5 04191
	(L)	(L)



01 Safety

Child safe	ty	
Weight	Front seat ^A	Rear seat
Group 2/3	Volvo booster seat with backrest (Volvo Booster Seat with	Volvo booster seat with backrest (Volvo Booster Seat with
15 – 36 kg	backrest).	backrest).
	Type approval: E1 04301169	Type approval: E1 04301169
	(UF)	(UF)
	Booster cushion with and without backrest (Booster Cushion with and without backrest).	Booster cushion with and without backrest (Booster Cushion with and without backrest).
	Type approval: E5 03139	Type approval: E5 03139
	(UF)	(UF)

L: Suitable for specific child seats. These child seats may be intended for use in a special car model, limited or semi-universal categories.

U: Suitable for universally approved child seats in this weight class.

UF: Suitable for front-facing universally approved child seats in this weight class.

A For information on activated/deactivated airbag, see page 22.

^B To install a rear-facing child seat in the rear seat, Volvo recommends that you contact an authorised Volvo dealer to have the mounting points installed.

Never place a child in a child seat or on a booster cushion in the front seat if the airbag is activated⁴.

No one shorter than 140 cm should ever sit in the front passenger seat if the airbag is activated.

Failure to follow the advice given above can endanger life.

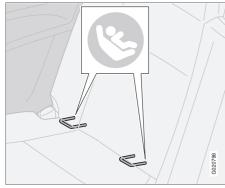
⁴ For information on activating/deactivating the airbag (SRS), see page 22.

01 Safety

Child safety

01

ISOFIX fixture system for child seats



Mounting points for the ISOFIX fixture system are concealed behind the lower section of the rear seat backrest, in the outer seats.

The location of the mounting points is indicated by symbols in the backrest upholstery (see illustration above).

Press the seat cushion down to access the mounting points.

Always follow the manufacturer's installation instructions when connecting a child seat to the ISOFIX mounting points.

Size classes

Child seats are in different sizes – cars are in different sizes. This means that not all child seats are suitable for all seats in all car models.

Consequently, there is a size classification for child seats using the ISOFIX fixture system in order to assist users in choosing the correct child seat (see the following table).

Size class	Description
А	Full size, front-facing child seat
В	Reduced size (alt. 1), front- facing child seat
B1	Reduced size (alt.2), front- facing child seat
С	Full size, rear-facing child seat
D	Reduced size, rear-facing child seat
Е	Rear-facing infant seat

Size class	Description
F	Transverse infant seat, left- hand
G	Transverse infant seat, right- hand

🚹 WARNING

Never place a child in the passenger seat if the car is equipped with an activated airbag.

i) NOTE

If an ISOFIX child seat has no size classification then the car model must be included on the child seat's vehicle list.

I) NOTE

Volvo recommends that you contact an authorised Volvo dealer for recommendations about which ISOFIX child seats Volvo recommends.



01 Safety

01

Child safety

Types of ISOFIX child seat

Type of child seat	Weight	Size class	Passenger seats for ISOFIX installation of child seats		
			Front seat	Outer rear seat	
Infant seat transverse	max. 10 kg	F	Х	Х	
		G	Х	Х	
Infant seat, rear-facing	max. 10 kg	E	Х	OK	
				(IL)	
Infant seat, rear-facing	max. 13 kg	Е	Х	OK	
				(IL)	
		D	Х	OK ^A	
				(IL)	
		С	Х	OK ^A	
				(IL)	
Child seat, rear-facing	9-18 kg	9-18 kg	D	Х	OK ^A
				(IL)	
		С	Х	OK ^A	
				(IL)	

Child safety

Type of child seat	Weight	Size class	Passenger seats for ISOFIX installation of child seats		
			Front seat	Outer rear seat	
Front-facing child seat	9-18 kg	В	Х	OK ^B	
				(IUF)	
		B1	Х	OK ^B	
				(IUF)	
		А	X OK ^b	OK ^B	
				(IUF)	

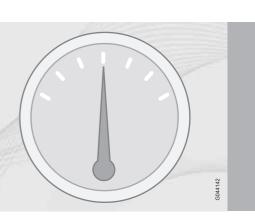
X: The ISOFIX position is not suitable for ISOFIX child seats in this weight class and/or size class.

IL: Suitable for specific ISOFIX child seats. These child seats may be intended for use in a special car model, limited or semi-universal categories.

IUF: Suitable for front-facing ISOFIX child seats that are universally approved in this weight class.

A In order to be able to fit the infant/child seat in the rear seat, the front passenger seat has been adjusted to a location in front of centre position. B Volvo recommends rear-facing child seats for this group.

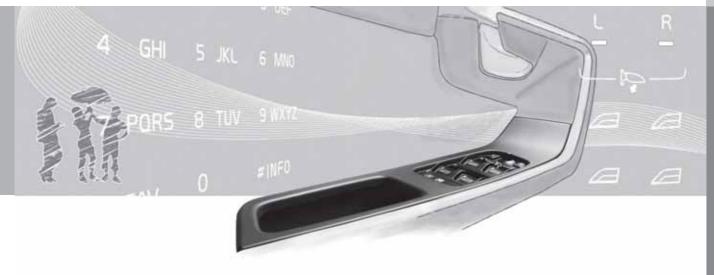
Overview, left-hand drive cars	44
Overview, right-hand drive cars	46
Driver's door control panel	48
Combined instrument panel	49
Indicator and warning symbols	50
Information display	54
Electrical socket	
Lighting panel	
Left-hand stalk switch	61
Right-hand stalk switch	64
Cruise control*	66
Keypad in the steering wheel*	68
Steering wheel adjustment, hazard warning flashers	69
Parking brake	
Power windows	71
Windows, rearview and door mirrors	73
Personal preferences	77
HomeLink [®] *	80



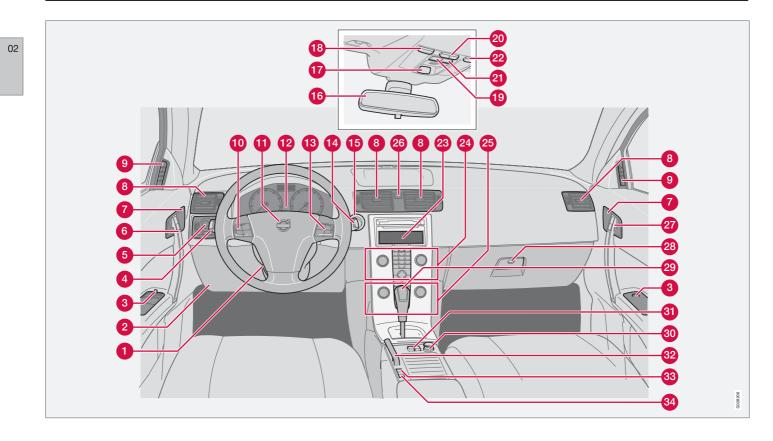


 \bigcirc

INSTRUMENTS AND CONTROLS



Overview, left-hand drive cars



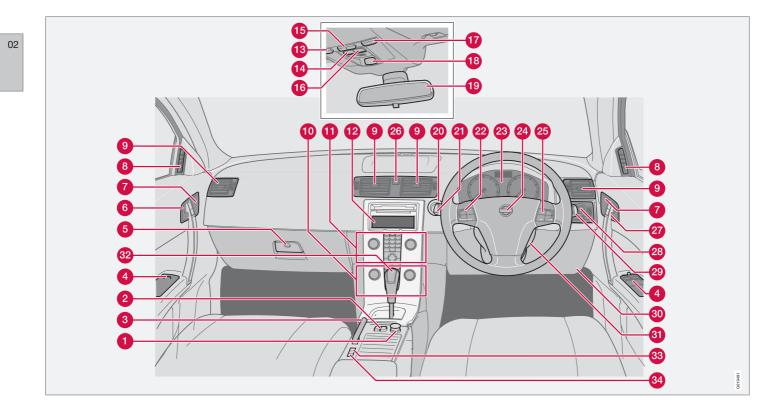


Overview, left-hand drive cars

- 1 Steering wheel adjustment
- Opening handle, bonnet
- 3 Control panel, windows and door mirrors
- Oirection indicators, main beam, trip computer
- **(5)** Lighting panel and fuel filler flap opener
- 6 Door handle and lock button.
- Indicator lamp, locking
- 8 Air vents, dashboard
- O Air vent for side window
- Cruise control
- Horn and airbags
- 12 Combined instrument panel
- 13 Keypad for infotainment system
- Windscreen wipers and washer, headlamp washers
- Ignition switch
- 16 Rearview mirror, interior
- Seatbelt reminder and passenger seat airbag indicator
- B Switch, interior lighting, left-hand side

- Switch, optional equipment
- Switch, passenger compartment automatic lighting
- 2 Switch, optional equipment
- Switch, passenger compartment lighting, right-hand side
- 28 Display, car settings/audio system etc.
- 24 Controls, car settings/audio system etc.
- 🕗 Climate control
- Indicator lamp, hazard warning flashers
- 2 Door handle and lock button
- 28 Glovebox
- Gear lever (manual)/gear selector (automatic)
- 30 Electrical socket and cigarette lighter
- 3 Switch, roof control
- 😳 Parking brake
- 8 Blind Spot Information System, BLIS
- 34 Switch, optional equipment

Overview, right-hand drive cars





Overview, right-hand drive cars

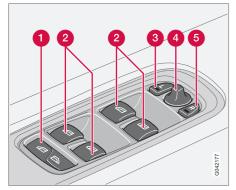
- 1 Electrical socket and cigarette lighter
- 2 Switch, roof control
- 8 Parking brake
- 4 Control panel, windows and door mirrors
- 6 Glovebox
- 6 Door handle and lock button
- Indicator lamp, locking
- 8 Air vent for side window
- 9 Air vents in dashboard
- Climate control
- Controls, car settings/audio system etc.
- Display, car settings/audio system etc.
- (B) Switch, interior lighting, left-hand side
- 14 Switch, optional equipment
- Switch, passenger compartment automatic lighting
- 16 Switch, optional equipment
- Switch, passenger compartment lighting, right-hand side
- B Seatbelt reminder and passenger seat airbag indicator

- Rearview mirror, interior
- Ignition switch
- Stalk switch, left
- Keypad, steering wheel, left
- Combined instrument panel
- 24 Horn and airbags
- 2 Keypad, steering wheel, right
- 🙆 Indicator lamp, hazard warning flashers
- 🧭 Door handle and lock button
- 28 Lighting panel and fuel filler flap opener
- 🥸 Stalk switch, right
- Opening handle, bonnet
- 3 Lever, steering wheel adjustment
- Gear lever (manual)/gear selector (automatic)
- Blind Spot Information System, BLIS
- 34 Switch, optional equipment



Driver's door control panel

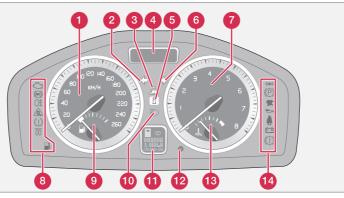
Driver's door control panel



- 1 Power windows, all windows down/up
- 2 Power windows
- 3 Door mirror, left-hand side
- 4 Door mirrors, setting
- 5 Door mirror, right-hand side

02 Instruments and controls

Combined instrument panel



- Speedometer.
- 2 Direction indicators, left.
- 3 Warning symbol.
- Information display Shows information or warning messages, outside temperature and clock. When the outside temperature is between +2 °C to -5 °C a snowflake illuminates on the display. This warns of icy roads. The outside temperature gauge may show a slightly high reading after the car has been stationary.
- Information symbol.
- 6 Direction indicator, right.

- 7 Tachometer Indicates engine speed in thousands of revolutions per minute (rpm).
- 8 Indicator and warning symbols.
- 9 Fuel gauge, see also trip computer, pag e 62.
- 🔟 Main beam indicator.
- Display Display for automatic gear position, rain sensor, odometer, trip meter and cruise control.
- Button for trip meter Used to measure short distances. Short presses on the button switches between the two trip meters T1 and T2. A long press (more than 2 seconds) resets an active trip meter to zero.
- Temperature gauge Used for the engine cooling system. A message will appear on the display if the temperature becomes too high and the gauge goes into the red zone. Bear in mind that extra lights placed in front of the air intake, for example, reduce the cooling capacity at high outside temperatures and high engine loads.
- Indicator and warning symbols.

Indicator and warning symbols

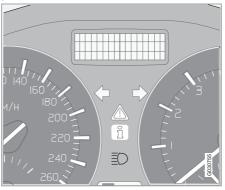
Functionality check, symbols

All indicator and warning symbols¹ illuminate when the remote control key is turned to position **II** before starting. This is to check that the symbols are working. When the engine starts, all the symbols should go out except the parking brake symbol, which only goes out when the brake is disengaged.



If the engine does not start within five seconds, all symbols extinguish except the symbols for a fault in the car's emissions system and for low oil pressure. Certain symbols may have no function, depending on the car's specifications.

Symbols in the centre of the instrument panel





The red warning symbol illuminates when a fault has been indicated which could affect the safety and/or driveability of the car. An explanatory text is shown on the

information display at the same time. The symbol remains visible until the fault has been rectified but the text message can be cleared with the **READ** button, see page 54. The warning symbol can also illuminate in conjunction with other symbols. When the symbol illuminates:

- 1. Stop in a safe manner. Do not drive the car further.
- 2. Read the information on the information display. Implement the action in accordance with the message in the display. Clear the message using **READ**.



The yellow information symbol illuminates and a text appears on the information display. The message text is cleared using the **READ** button, see page 54, or disappears

automatically after a period of time (time depending on which function is indicated).

The yellow information symbol can also illuminate in conjunction with other symbols.

ΝΟΤΕ

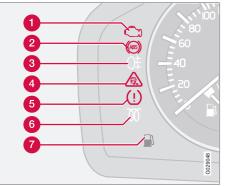
When a service message is shown, the symbol and message are cleared using the **READ** button, or disappear automatically after a time.

¹ For certain engine variants, the symbol for low oil pressure is not used. Warnings are given via display text, see page 54.



Indicator and warning symbols

Indicator symbols - left-hand side



- Fault in car's emissions system
- 2 ABS fault
- 8 Rear fog lamp
- 4 Stability system DSTC
- 6 No function
- 6 Engine preheater (diesel)
- 7 Low level in fuel tank

Emissions system



If the symbol illuminates then it may be due to a fault in the car's emissions system. Volvo recommends that you seek assistance from an authorised Volvo work-

shop for inspection.

ABS fault



If this symbol illuminates then the system is not working. The car's regular brake system continues to work, but without the ABS function.

- 1. Stop the car in a safe place and turn off the engine.
- 2. Restart the engine.
- Drive to a workshop to have the ABS system checked if the symbol remains lit. Volvo recommends that you seek assistance from an authorised Volvo workshop.

Rear fog lamp



This symbol is lit when the rear fog lamp is on.

Stability system DSTC*



For information on the system's functions and symbols, see page 159.

Engine preheater (diesel)



This symbol illuminates during engine preheating. Preheating occurs when the temperature is below -2 °C. The car can be started once the symbol goes out.

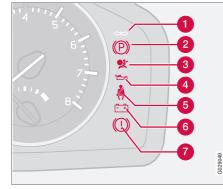
Low level in fuel tank



When the symbol illuminates the level in the fuel tank is low, refuel as soon as possible.

Indicator and warning symbols

Indicator symbols – right-hand side



- Indicator symbol for trailer
- 2 Parking brake applied
- 3 Airbags SRS
- 4 Low oil pressure
- 6 Seatbelt reminder
- 6 Alternator not charging
- 7 Fault in brake system

Indicator symbol for trailer



faulty.

This symbol flashes when the direction indicators are used and the trailer is connected. If the symbol does not flash then one of the lamps on the trailer or the car is

5

Parking brake applied



The symbol illuminates when the parking brake is applied. Always pull the parking brake lever to the end position.

I) NOTE

The symbol illuminates irrespective of how hard the parking brake is applied.

Airbags – SRS



If this symbol remains illuminated or illuminates while driving, it means a fault has been detected in the seatbelt buckle, SRS, SIPS or IC system. Volvo recommends that

drive directly to an authorised Volvo workshop for inspection.

Low oil pressure²



If this symbol illuminates during driving then the engine's oil pressure is too low. Stop the engine immediately and check the engine oil level, top up if necessary. If the

symbol illuminates and the oil level is normal Volvo recommends that you contact an authorised Volvo workshop.

Seatbelt reminder



This symbol illuminates if someone in a front seat has not put on their seatbelt or if someone in a rear seat has taken off their seatbelt.

Alternator not charging



If this symbol illuminates while driving, a fault has occurred in the electrical system. Volvo recommends that you visit an authorised Volvo workshop.

Fault in brake system



If this symbol illuminates, the brake fluid level may be too low.

² For certain engine variants, the symbol for low oil pressure is not used. Warnings are given via display text, see page 54.



Indicator and warning symbols

 Stop the car in a safe place and check the level in the brake fluid reservoir, see page 214. If the reservoir level is below
 MIN then the car should not be driven further. Volvo recommends that the car is transported to an authorised Volvo workshop to have the brake system checked.



If the BRAKE and ABS symbols illuminate at the same time, there may be a fault in the brake force distribution system.



- 1. Stop the car in a safe place and turn off the engine.
- 2. Restart the engine.
- If both symbols extinguish, continue driving.
- 4. If the symbols remain illuminated, check the level in the brake fluid reservoir, see page 214.
- If the brake fluid level is normal but the symbols are still illuminated, the car can be driven, with great care, to a workshop to

have the brake system checked. Volvo recommends that you seek assistance from an authorised Volvo workshop.

 If the level in the reservoir is below MIN then the car should not be driven any further. Have the car transported to a workshop to have the brake system checked. Volvo recommends that you seek assistance from an authorised Volvo workshop.

\Lambda WARNING

If the BRAKE and ABS symbols are lit at the same time, there is a risk that the rear end will skid during heavy braking.

Reminder – doors not closed

If one of the doors, the bonnet³ or the boot lid is not properly closed, the driver will be reminded of this.

Low speed



If the car moves at a speed less than 5 km/h, the information symbol illuminates and DRIVER DOOR OPEN, PASSENGER DOOR OPEN or BONNET OPEN

is shown on the display. Stop the car safely as soon as possible and close the door or bonnet.

High speed



If the car is moving faster than 10 km/h, the symbol illuminates and one of the texts indicated in the preceding paragraph appears on the display.

Boot lid reminder

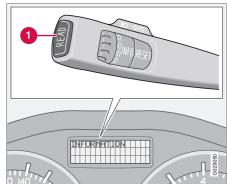


If the boot lid is open, this information symbol will illuminate and **BOOT LID OPEN** will appear on the display.

³ Only cars with alarm.

Information display

Messages



When a warning or indicator symbol illuminates the information display shows a supplementary message.

- Press the **READ** button (1).

Switch between messages with the **READ** button. Fault messages are stored in the memory until the fault is rectified.

(i) NOTE

If a warning message appears while you are using the trip computer, the message must be read (press **READ**) before the previous activity can be resumed.

Message	Specification		Message	Specification	
STOP SAFELY ^A	SAFELY ^A Stop the car in a safe manner and turn off the engine. Serious risk of damage.		TIME FOR REGU- LAR SERVICE	Time for regular service. Volvo rec- ommends that an authorised Volvo	
SERVICE URGENT ^A	Volvo recommends that an authorised Volvo workshop checks the car immediately.			workshop carries out the service. The timing is determined by the number of kil- ometres driven, number of months	
SEE MANUAL ^A	SEE MANUAL ^A Read the Owner's Manual.			since the last serv- ice, engine running time and oil grade.	
SERVICE Volvo recommends REQUIRED ^A volvo workshop checks the car as soon as possible.	Volvo workshop checks the car as		SERVICE OVER- DUE	If the service inter- vals are not followed then the warranty does not cover any damaged parts.	
HIGH ENGINE TEMP STOP ENGINE	Stop the car in a safe manner and turn off the engine. Serious risk of damage.			Volvo recommends that an authorised Volvo workshop car- ries out the service.	
BOOK TIME FOR SERVICE			TRANSMISSION OIL CHANGE NEE- DED	Volvo recommends that an authorised Volvo workshop checks the car as soon as possible.	

Information display

Message	Specification		Message	Specification	
REMINDER CHECK OIL LEVEL	DIL LEVEL The message is shown every 10 000 km (certain engine variants). For information on checking the oil		TRANSMISSION OIL TEMP HIGH	Drive more smoothly or stop the car in a safe manner. Disen- gage the gear and run the engine at idling speed until the message clears.	
SOOT FILTER FULL SEE OWNER MANUAL	level, see page 210. Diesel particle filter requires regenera- tion, see page 144.		r	TRANSM OIL TEMP STOP SAFELY	Critical fault. Stop the car immediately in a safe manner. Volvo recommends
DSTC SPIN CON- TROL OFF	The function of the stability and traction control system is			that an authorised Volvo workshop is contacted.	
	reduced, see page 160 for more variants.		A Part of message, shown toge the problem has arisen.	other with information on where	
TRANSMISSION PERFORMANCE LOW	The gearbox cannot handle full capacity. Drive with care until the message clears.				
	If shown repeatedly then Volvo recom- mends that an authorised Volvo workshop is contac- ted.				



Electrical socket

12 V electrical socket



Electrical socket and cigarette lighter.

The electrical socket can be used for various accessories designed for 12 V, e.g. TV screens, music players and mobile phones. For the socket to supply current, the remote control key must be in at least position I, see page 150.

IMPORTANT

Max. socket is 10 A (120 W).

\Lambda WARNING

Always leave the plug in the socket when the socket is not in use.

NOTE

Optional equipment and accessories - e.g. TV screens, music players and mobile phones - which are connected to one of the passenger compartment's 12V electrical sockets, could be activated by the climate control system, even when the remote control key has been removed or when the car is locked, for example, when the parking heater is activated at a preset time.

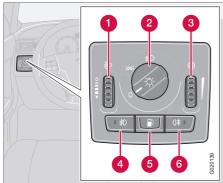
For this reason remove the plugs from the electrical sockets for optional equipment or accessories when not in use because the battery could be drained in the event of such an occurrence!

Cigarette lighter*

Activate the lighter by pushing in the button. The button pops out when the lighter is hot. Pull out the lighter and light a cigarette on the heated coils.

Lighting panel

General



- Thumbwheel for headlamp levelling
- 2 Light switches
- 3 Thumbwheel for adjusting display and instrument lighting
- 4 Front fog lamps*
- Opening the fuel filler flap
- 6 Rear fog lamp

Posi- tion	Specification
0	Automatic/deactivated dipped beam. Only main beam flash.
ED DE	Position/parking lamps
١	Automatic dipped beam. Main beam and main beam flash work in this position.

Headlamp levelling

The load in the car changes the vertical alignment of the headlamp beam, which could dazzle oncoming motorists. Avoid this by adjusting the height of the beam.

- 1. Turn the remote control key to position II.
- 2. Turn the headlamp control (2) to one of the end positions.
- 3. Roll the control (1) up or down respectively to raise or lower beam alignment.

Cars with active Xenon headlamps - ABL* have automatic headlamp levelling, so there is no control (1).

Position/parking lamps

Position/parking lamps can be switched on irrespective of remote control key position.

Turn the headlamp control (2) to the centre position.

When the remote control key is in position **II** the position/parking lamps and number plate lighting are always on.

Headlamps

Automatic dipped beam*

Dipped beam comes on automatically when the remote control key is turned to position **II**, except when the headlamp control (2) is in the centre position. If necessary, the automatic dipped beam can be deactivated. Volvo recommends that this is performed by an authorised Volvo workshop.

Automatic dipped beam, main beam

- 1. Turn the remote control key to position II.
- 2. Dipped beam is activated by means of turning the headlamp control (2) clockwise to the end position.
- Main beam is activated by means of moving the left-hand stalk switch towards the steering wheel to the end position and releasing it, see page 61.



Lighting panel

The lamps are switched off automatically when the remote control key is turned to position I or **0**.

Instrument lighting

The instrument lighting is switched on when the remote control key is in position **II** and the headlamp control (2) is in one of the end positions. The lighting is automatically dimmed during the day and can be controlled manually at night.

 Roll the control up or down (3) for brighter or dimmer lighting.

Enhanced display lighting

To facilitate reading the odometer, trip meter, clock and outside temperature gauge, these illuminate when the car is unlocked and when the remote control key is removed from the ignition switch. The displays extinguish when the car is locked.

Fog lamps

i) NOTE

Regulations for use of fog lamps vary from country to country.

Front fog lamps*

The front fog lamps can be switched on along with the headlamps or the position lamps/parking lamps.

Press the button (4).

The light in the button (4) illuminates when the front fog lamps are switched on.

Rear fog lamp

The rear fog lamp can only be switched on with the headlamps or the front fog lamps.

Press the button (6).

The rear fog lamp indicator symbol on the combined instrument panel and the light in the button (6) illuminate when the rear fog lamp is switched on.

Fuel filler flap

Press button (5) to open the fuel filler flap when the car is unlocked, see page 130.

Active Xenon headlamps*



Lighting panel, for active Xenon headlamps

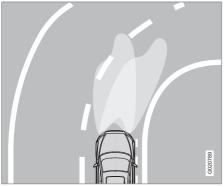
If the car is equipped with active Xenon headlamps (Active Bending Lights, ABL) the light from the headlamps follows the steering wheel movement in order to provide maximum lighting in bends and junctions and so provide increased safety.

The LED 😁 illuminates when the function is activated. The LED flashes and an error message is shown on the information display in the

Lighting panel

event of a malfunction. The function is only active in twilight or darkness and only when the car is moving.

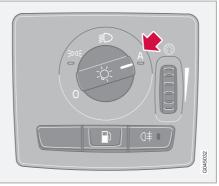
The function can be deactivated/activated with the headlamp control.



Headlamp pattern with function deactivated (left) and activated (right) respectively.

Daytime running lights - DRL*

To save fuel, daytime running lights (Daytime Running Light) can be selected during the day instead of the more energy-intensive dipped beam. The daytime running lights mounted in the spoiler use bright, low-energy diode technology.



Position **A** automatically gives DRL daytime running lights during the day.

Posi- tion	Specification
0	Daytime running lights
ED DE	Daytime running lights when the car is being driven. Automatic switching to parking lights when the car is parked.
١	Headlamps and position lamps
	Daytime running lights during daytime driving. Automatic switching to headlamps and position lamps in poor light con- ditions and when windscreen wipers or rear fog lamps are activated.
	If the car is equipped with active Xenon headlamps (Active Bending Lights, ABL) then this function is also activated.

With the light switch in position **A**, the daytime running lights are activated automatically during the day. This is regulated by a light sensor which switches from daytime running lights to dipped beam off the main headlamps at dusk or when the daylight becomes too weak.



Lighting panel

i NOTE

To achieve minimal energy consumption, the rear lights are also switched off when switching automatically from dipped beam to DRLs.

\Lambda WARNING

This system help to save energy - it cannot determine in all situations when daylight is too weak or sufficiently strong, e.g. in mist and rain.

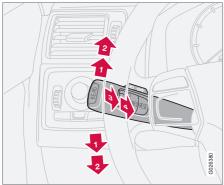
The driver is always responsible for ensuring that the car is driven with its lights in a correct state and in accordance with applicable traffic regulations.

Brake light

The brake light automatically comes on during braking. For information on the Emergency brake lights and automatic hazard warning flashers, see page 158.

Left-hand stalk switch

Stalk switch positions



- Direction indicators short flash sequence
- Direction indicators continuous flash sequence
- Main beam flash
- Home safe lighting and switching between main and dipped beam.

Direction indicators

Short flash sequence

- Move the stalk switch up or down to position (1) and release.
 - > The direction indicators flash 3 times and the stalk switch returns to its original position.

Continuous flash sequence

- Move the stalk switch up or down to end position (2).
 - > The stalk switch remains in its end position and is moved back manually, or automatically by steering wheel movement.

Main beam flash

- Move the stalk switch gently towards the steering wheel to position (3).
 - > Main beam comes on until the stalk switch is released.

Main beam flash only works when the remote control key is inserted into the ignition switch.

Switching between main and dipped beam

Move the stalk switch to the end position
 (4) and release.

The remote control key must be in position **II** and the headlamp control in end position, see page 57, for main beam to be switched on.

Home safe lighting

Some of the exterior lighting can be kept switched on to work as home safe lighting after the car has been locked. The standard delay is 30¹ seconds, but can be changed to 60 or 90 seconds, see page 78.

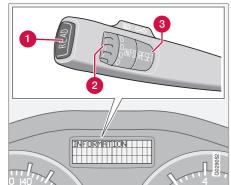
- 1. Remove the remote control key from the ignition switch.
- 2. Move the stalk switch towards the steering wheel to position (3) and release.
- 3. Get out of the car and lock the door.

¹ Factory settings.



Left-hand stalk switch

Trip computer*



- READ confirms
- 2 Thumbwheel² browse between menus and options in the trip computer list.
- 8 RESET² resets

Controls

To scroll through trip computer information turn the thumbwheel either up or down in steps. The menus are in an infinite loop.

NOTE

If a warning message interrupts while you are using the trip computer, this message must be acknowledged. Acknowledge by pressing the **READ** button and revert to the trip computer function.

Functions

The trip computer displays the following information:

- --- KM/H AVERAGE SPEED
- --.- KM/L INSTANTANEOUS
- --.- L/100 KM AVERAGE
- --- KILOMETRES TO EMPTY TANK
- DSTC ON *, see page 159
- --- MPH ACTUAL SPEED ³

AVERAGE SPEED

Average speed is calculated from the latest reset, which is performed with the **RESET** button.

INSTANTANEOUS

Current fuel consumption is calculated every second. The information on the display is updated every couple of seconds. When the car is stationary, "----" appears on the display.

During the period for regeneration⁴ fuel consumption may increase, see page 144.

AVERAGE

Average fuel consumption is calculated from the latest reset, which is performed with the **RESET** button.

) ΝΟΤΕ

There may be a slight error in the reading if a fuel-driven heater is used.

KILOMETRES TO EMPTY TANK

The range to empty is calculated based on the average fuel consumption over the last 30 km. No guaranteed range remains when the display shows "--- KILOMETRES TO EMPTY TANK ". Refuel as soon as possible.

ΝΟΤΕ

There may be a slight error in the reading if fuel consumption is changed due to a change in driving style or if a fuel-driven heater is used for example.

MPH ACTUAL SPEED³ Current speed is displayed in mph.

² No function in cars without trip computer, fuel-driven parking heater as well as stability and traction control system.

³ Certain markets.

⁴ Only applies to diesel cars with particle filter.



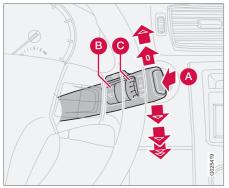
Left-hand stalk switch

Resetting

- 1. Select --- KM/H AVERAGE SPEED or ---- L/100 KM AVERAGE
- 2. Reset with one press of the RESET button.
- One long press of the **RESET** button (at least 5 seconds) resets both average speed and average consumption simultaneously.

Right-hand stalk switch

Windscreen wipers



Windscreen and headlamp washers

- Rain sensor On/Off
- Thumbwheel

Windscreen wipers off



The windscreen wipers are off when the stalk switch is in position 0

Single sweep

Raise the stalk switch to make a single sweep.

Intermittent wiping

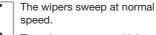


You can adjust and set a suitable speed for intermittent wiping. Turn the thumbwheel (C) up for a shorter interval between sweeps. Turn it

Continuous wiping



down to increase the delay.



The wipers sweep at high speed.

IMPORTANT

Before activating the wipers during winter ensure that the wiper blades are not frozen in, and that any snow or ice on the windscreen is scraped away.

IMPORTANT

Use plenty of washer fluid when the wipers are cleaning the windscreen. The windscreen must be wet when the windscreen wipers are operating.

Windscreen/headlamp washer

Move the stalk switch toward the steering wheel to start the windscreen and headlamp washers. The wipers will make several more sweeps once the stalk switch is released.

High-pressure headlamp washing*

High-pressure headlamp washing consumes a large quantity of washer fluid. To save fluid, the headlamps are washed as follows:

Dipped beam selected with the switch on lighting panel:

The headlamps are washed the first time the windscreen is washed. Within the next ten minutes, they are washed every fifth wash cycle of the windscreen. In the event of a longer interval the headlamps are washed each time.

Parking/position lamps selected with the switch on the lighting panel:

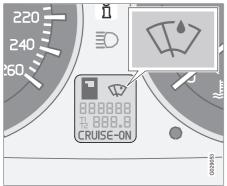
- Active Xenon headlamps are only washed every fifth wash cycle irrespective of the time that elapses.
- Halogen headlamps are not washed. •

The switch on the lighting panel is in position 0:

- Active Xenon headlamps are only washed • every fifth wash cycle irrespective of the time that elapses.
- Halogen headlamps are not washed.

Right-hand stalk switch

Rain sensor*



The rain sensor automatically activates the windscreen wipers based on how much water it detects on the windscreen. The sensitivity of the rain sensor can be adjusted using the thumbwheel (C), see page 64.

Turn the thumbwheel upwards for higher sensitivity and downwards for lower sensitivity, (an extra sweep is made when the thumbwheel is turned upwards).

On/Off

When activating the rain sensor, the remote control key must be in position I or II and the windscreen wiper stalk switch must be in position **0** (not activated).

Activating the rain sensor:

 Press the button (B), see page 64. A display symbol shows that the rain sensor is active.

To turn the rain sensor off, either:

- 1. Press button (B)
- 2. Press the stalk switch downward to another wiper program. If the stalk switch is raised, the rain sensor will remain active, the wipers make an extra sweep and then return to rain sensor mode when the stalk is released to position **0** (not activated), see page 64.

The rain sensor is automatically deactivated when the remote control key is removed from the ignition switch or five minutes after the ignition is switched off.

IMPORTANT

At an automatic car wash: Deactivate the rain sensor by pressing the button (B) while the remote control key is in position I or II. Otherwise, the windscreen wipers could start swiping and become damaged.

Thumbwheel

Use the thumbwheel to adjust the frequency of wiper sweeps when intermittent wiping is

selected, or the sensitivity to rain when the rain sensor is selected.



Cruise control*



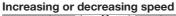


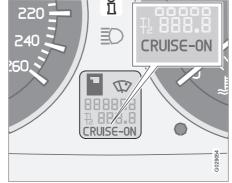
The controls for cruise control are to the left of the steering wheel.

Setting the desired speed:

- 1. Press the **CRUISE** button. **CRUISE** is shown on the combined instrument panel.
- Touch + or to lock the vehicle speed. CRUISE-ON appears in the combined instrument panel.

Cruise control cannot be engaged at speeds below 30 km/h or above 200 km/h.





 Increase or decrease the speed by pressing and holding + or -. The speed of the car when the button is released is set as the new speed.

A brief press (less than half a second) on + or - changes the speed by 1 km/h or 1 mph¹.

ΝΟΤΕ

A temporary increase in speed (less than one minute) using the accelerator, such as while overtaking, does not affect the cruise control setting. When you release the accelerator, the car will return to the programmed speed.

Temporary disengagement

 Press 0 to disengage the cruise control temporarily. CRUISE will be shown on the combined instrument panel. The speed set earlier is stored in the memory.

The cruise control is also temporarily disengaged when:

- the brake pedal or clutch pedal is depressed
- speed falls below 25-30 km/h¹ when travelling uphill
- the gear selector is moved to position N
- wheel spin or wheel lock-up occurs
- a temporary increase in speed lasts longer than one minute.

¹ Depending on engine type.

02 Instruments and controls



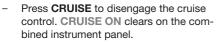
Cruise control*

Return to the set speed



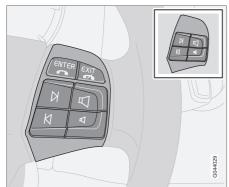
 Press this button to resume the previously set speed. CRUISE
 ON appears on the combined instrument panel.

Disengaging



Keypad in the steering wheel*

Button functions



in order to enable control of the phone system with the arrow keys.

To return to Audio only, press **EXIT.** To return to the phone menu, press **EXIT** once again.

With the **ENTER** button you can select, activate and deactivate options in menus. The button can also be used to access the folder structure and start the playback of audio files if a disc with audio files is inserted in the CD player/ CD changer*. For more information, see page 246.

The keypad is available in two versions depending on the equipment in the car.

The four buttons at the bottom of the steering wheel keypad control the radio and the phone. The function of a button depends on which system is active. The steering wheel keypad can be used to scroll between preset stations, change CD tracks and adjust the volume.

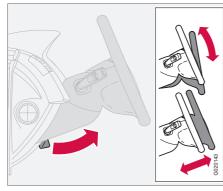
 Press and hold one of the arrow keys to fast forward/reverse or search for the next station.

The phone must be active to make settings in the phone system. Activate the phone function with the **PHONE** button in the centre console



Steering wheel adjustment, hazard warning flashers

Steering wheel adjustment



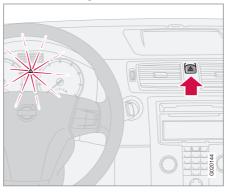
The steering wheel can be adjusted for both height and reach.

- 1. Pull the lever towards you to release the steering wheel.
- 2. Adjust the steering wheel to the position that suits you best.
- 3. Push back the lever to fix the steering wheel in place. If the lever is stiff, press the steering wheel lightly at the same time as you push the lever back.

🚹 WARNING

Adjust the steering wheel before driving off, never while driving. Before driving, check that the steering wheel is fixed in position.

Hazard warning flashers



Use the hazard warning flashers (all direction indicators flash) when the car is stopped where it could be a traffic hazard or obstruction. Press the button to activate the function.

A sufficiently violent collision or heavy braking activates the hazard warning flashers automatically, see page 158. The function can be deactivated with the button.

) NOTE

Regulations regarding the use of hazard warning flashers vary from country to country.



Parking brake

General



Instrument panel warning symbol and warning label for risk of crushing.

The lever is located between the front seats.

Make sure that children, other passengers or objects are not in danger of becoming trapped in any way when the parking brake is applied or released by the driver.

Applying the parking brake

- 1. Press the foot brake pedal down firmly.
- 2. Pull the lever firmly.

> The instrument panel's warning symbol is illuminated.

i) NOTE

The warning lamp symbol in the combined instrument panel illuminates irrespective of how hard the parking brake is applied.

- 3. Release the foot brake pedal and make sure that the car is at a standstill position.
- 4. If the vehicle moves then the parking brake lever must be pulled up a little bit further.
- When parking the vehicle, always engage 1st gear (for manual gearbox) or put the gear selector in position P (for automatic gearbox).

Parking on a hill

If the car is parked facing uphill:

• Turn the wheels **away from** the kerb.

If the car is parked facing downhill:

• Turn the wheels towards the kerb.

🔥 WARNING

Get into the habit of always applying the parking brake when parking on a slope - leaving the car in gear, or in \mathbf{P} if it has automatic transmission, is not sufficient to hold the car in all situation.

Disengaging the parking brake

- 1. Press the foot brake pedal down firmly.
- 2. Pull the parking brake lever up slightly, press the button, lower the parking brake lever and release the button.
 - > The instrument panel's warning symbol is switched off.

Power windows

Operation

The power windows are operated using the controls in the doors. The key position must be I or II for the power windows to operate.

The windows continue to work for a limited amount of time when the car is stopped and after the remote control key is removed, provided none of the doors is opened. Operate the windows with caution.

To open a window:

- Depress the front of the control.

To close a window:

Raise the front of the control.

i NOTE

One way to reduce the pulsating wind noise when the rear windows are open is to also open the front windows slightly.

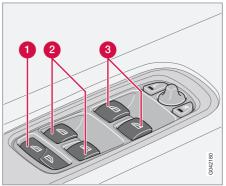
Remote control

To operate the power windows with remote control, see page 120.

🚹 WARNING

Make sure that children and other passengers cannot be trapped in any way when closing the windows. Pay close attention if the rear windows are controlled from the driver's door or if the windows are closed with the remote control.

Driver's door



Driver's door control panel.

Controls, all windows



Front window controls

The driver can operate all of the power windows from the driver's seat.

The windows can be opened and closed in two ways:

Manual operation

Depress one of the controls (2) or (3) gently or raise it gently. The power window opens or closes as long as the switch is actuated.

Automatic operation

Fully depress one of the controls (3) or raise it, then release. The side window will then open or close automatically. If the window is obstructed by an object, the movement will stop. Only the front windows can be closed automatically.

The control on the passenger door is operated in the same way as on the driver's door.

All windows simultaneously

All windows can be opened and closed simultaneously using button (1). The windows are opened automatically with a short press on the right-hand side of the button. Close by keeping the left-hand side of the button pressed in.



Power windows

\Lambda WARNING

The function that interrupts the movement of the windows in the event of them being blocked works with both automatic and manual closing, although not with pinch protection deployed.

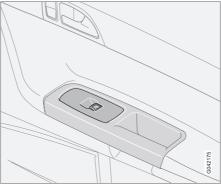
🚹 WARNING

If there are children in the car:

Remember to switch off the supply to the power windows by removing the remote control key if the driver leaves the car.

Make sure that children and other passengers cannot be trapped in any way when closing the windows.

Passenger seat

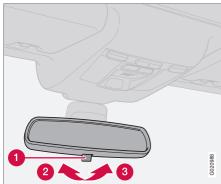


Passenger seat.

The control in the front passenger door operates that window only.

Windows, rearview and door mirrors

Interior rearview mirror



Bright light from behind could be reflected in the rearview mirror and dazzle the driver. Use dimming when disturbed by light from behind.

Dipping

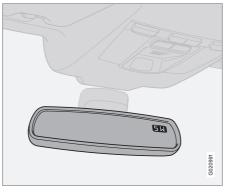
1 Control for dimming

- 2 Normal position
- 3 Dimmed position.

Automatic dimming*

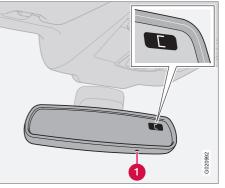
Bright light from behind is automatically dimmed by the rearview mirror. The control (1) is not available in mirrors with automatic dimming.

Interior rearview mirror with compass*



The upper right-hand corner of the rearview mirror has an integrated display that shows the compass direction in which the front of the car is pointing. Eight different directions are shown with English abbreviations: **N** (north), **NE** (north east), **E** (east), **SE** (south east), **S** (south), **SW** (south west), **W** (west) and **NW** (north west).

Calibrating the compass

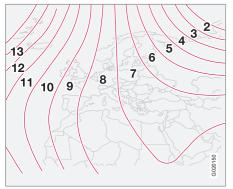


The earth is divided into 15 magnetic zones. The compass is set for the geographical area to which the car was delivered. The compass should be calibrated if the car is moved across several magnetic zones.

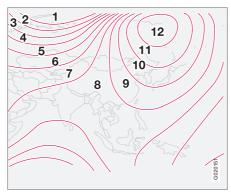
- 1. Stop the car in a wide open area with the engine running at idling speed.
- Press and hold button (1) for at least 6 seconds. Following which, the character C is shown (the button is concealed so use a paper clip for example to press it in).
- 3. Press and hold button (1) for at least 3 seconds. The number for the current magnetic zone is displayed.

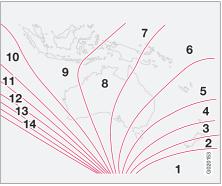
Windows, rearview and door mirrors

- Press the button (1) repeatedly until the number for the required magnetic zone (1– 15) is shown, refer to the map of magnetic zones for the compass.
- 5. Wait until the display returns to showing the character **C**.
- Following which, press and hold the button in for 9 seconds and select L for left-hand drive cars and R for right-hand drive.
- Drive slowly in a circle with a maximum speed of 10 km/h until a compass direction is shown on the display, which indicates that the calibration is complete.

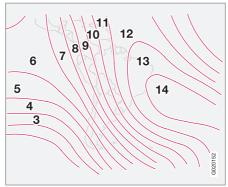


Magnetic zones, Europe.



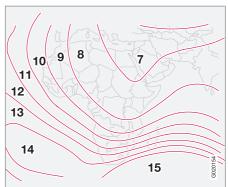


Magnetic zones, Asia.



Magnetic zones, South America.

Magnetic zones, Australia.

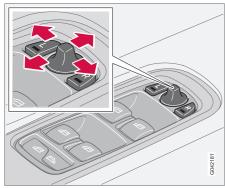


Magnetic zones, Africa.



Windows, rearview and door mirrors

Door mirrors



The controls for adjusting the two door mirrors are at the front of the driver's door armrest. The rearview mirrors can be operated in key position I and II.

- Press the L button for the left-hand door mirror or the R button for the right-hand door mirror. The light on the button illuminates.
- 2. Adjust the position with the joystick in the centre.
- 3. Press the L or R button again. The light goes out.

Retractable power door mirrors*

The mirrors can be retracted for parking/driving in narrow spaces. This can be carried out in key position I and II.

Retracting the mirrors

- 1. Press the ${\bm L}$ and ${\bm R}$ button at the same time.
- 2. Release the buttons. The mirrors automatically stop in the fully retracted position.

\Lambda WARNING

The door mirror on the driver's side is the wide-angled type to provide optimal vision. Objects may appear further away than they actually are.

Folding out the mirrors

- 1. Press the L and R button at the same time.
- 2. Release the buttons. The mirrors automatically stop in the fully extended position.

Automatic retracting/extending When the car is locked/unlocked with the remote control or using the Keyless-system, see page 126, the door mirrors are automatically retracted/extended.

ΝΟΤΕ

The door mirrors will not be extended automatically during unlocking if they were retracted using the controls in the door.

If the car is locked with the remote control and is then started, the door mirrors will still be extended.

The function can be activated/deactivated under Car settings... → Mirror fold on locking, see page 78 for a description of the menu system.

Resetting to neutral

Mirrors that have been moved out of position by an external force must be reset to the neutral position for electric retracting and extending to work.

- 1. Use the L and R buttons to retract the mirrors.
- Extend the mirrors again with the L and R button. The mirrors are now reset to the neutral.

Home safe and approach lighting

The light* on the door mirrors illuminates when the approach lighting or home safe lighting is activated.



Windows, rearview and door mirrors

Blind Spot Information System, BLIS*

BLIS is an information system that under certain conditions can help to draw the driver's attention to vehicles moving in the same direction in the so-called "blind spot", see page 163.

Storing door mirror positions

The positions of the mirrors are stored when the car is locked with the remote control. When the car is unlocked with the same remote control the mirrors and the driver's seat adopt the stored positions.

Water and dirt-repellent coating*



The front side windows are treated with a coating which improves the view

in poor weather conditions. For information on maintenance, see page 200.

IMPORTANT

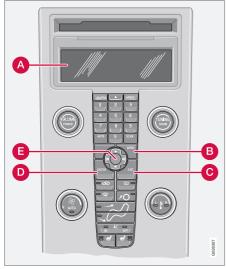
Do not use a metal ice scraper to remove ice from the windows. The water and dirt-repellent coating could be damaged.

Personal preferences

Possible settings

Personal preferences can be set for some of the car's functions. This applies to locks, climate control and audio functions. For audio functions, see page 236.

Control panel



Control panel.

) Display

3 MENU

ENTER

Navigation

Use

The settings are shown on the display (A).

Open the menu to enter settings:

- 1. Press MENU (B).
- 2. Scroll, for example, to **Car settings...** with the navigation button (E).
- 3. Press ENTER (D).
- 4. Select an alternative with the navigation button (E).
- 5. Press ENTER to activate the selection.

Activated function is shown in the display with \square . Deactivated function is shown in the display with \square .

Close the menu:

 Press EXIT (C) for approximately one second.

Clock, adjustment

The hour and minute are each adjusted separately.

- Use the numbers on the keypad or "arrow up" or "arrow down" on the navigation button (E).
- 2. Select the number for adjustment using "arrow right" or "arrow left" on the navigation button.
- 3. Press ENTER to start the clock.

NOTE

If the car has a 12-hour clock then **AM/PM** is selected using "arrow up" or "arrow down" after the final minute number has been adjusted.

Climate settings

Automatic blower adjust

The fan speed can be set to **AUTO** mode in cars equipped with ECC:

- Select from Low, Normal and High.

Recirculation timer

When the timer is active, the air recirculates for 3-12 minutes, depending on the outside air temperature.



Personal preferences

 Select On/Off depending on whether or not you wish the recirculation timer to be active.

Reset all

Resets the climate function options to the factory settings.

Car settings

Retract mirrors when locking*

When the car is locked/unlocked with the remote control the door mirrors can be retracted/extended automatically. The On/Off option is available.

Reduced guard*

The deadlocks function can be temporarily deactivated and the alarm level reduced if someone wishes to remain in the car and the doors have to be locked from the outside. The **Activate once** and **Ask on exit** options are available, see pages 132 and 135.

Unlock confirm. light

The hazard warning flashers can provide feedback when the car is unlocked with the remote control. The On/Off option is available.

Lock confirm. light

The hazard warning flashers can provide feedback when the car is locked with the remote control. The On/Off option is available.

Doors – auto lock

When the speed of the car exceeds 7 km/h the doors and boot lid can be locked automatically. The On/Off option is available. Pulling the door handle twice unlocks and opens the doors from the inside.

Doors unlock

There are two alternatives for unlocking:

- All doors one press of the remote control unlocks both doors and the boot lid.
- Driver door, then all one press of the remote control unlocks the driver's door. A second press then unlocks the passenger door and the boot lid.

Keyless entry*

- All doors both doors and the boot lid are unlocked simultaneously¹.
- Both front doors both front doors are unlocked simultaneously.
- Any door any door or the boot lid can be unlocked separately.

Simultaneous opening of all windows

This function can be selected for the unlock button on the remote control:

• Auto. open all windows – all windows are opened simultaneously with one long press on the unlock button.

Approach lighting

Select the time the car's lights should remain switched on when the approach lighting button is pressed - see page 120.

The following alternatives are available:

- 30 seconds
- 60 seconds
- 90 seconds

Home safe lighting

Select the time the car's lights should remain on when the left-hand stalk switch is pulled back after the remote control key has been removed - see page 61.

The following alternatives are available:

- 30 seconds
- 60 seconds
- 90 seconds

¹ Both doors and the boot lid can also be locked simultaneously



Personal preferences

Information

- VIN number... (Vehicle Identification Number) is the car's unique identity number.
- Number of keys... The number of keys registered for the car is shown.

HomeLink[®] *

General



HomeLink[®] is a programmable remote control which can control up to three different devices (e.g. garage door, alarm system, outdoor lighting and indoor lighting etc.) and in doing so replace their remote controls. HomeLink[®] is supplied built into the left-hand sun visor.

The HomeLink $^{\ensuremath{\mathbb{R}}}$ panel consists of three programmable buttons and one indicator lamp.

NOTE

HomeLink[®] is designed not to work if the car is locked from the outside.

Save the original remote controls for future programming (e.g. when switching to another car).

Delete the button programming when the car is to be sold.

Metallic sun visors should not be used in cars fitted with HomeLink®. This may have an adverse effect on its function.

Operation

When HomeLink[®] is fully programmed it can be used in place of the separate original remote controls.

Depress the programmed button to activate the garage door, alarm system etc. The indicator lamp illuminates for the time that the button is kept depressed.

i) NOTE

If the ignition is not activated, HomeLink[®] will work for 30 minutes after the driver's door has been opened.

The original remote controls can of course be used in parallel with HomeLink[®].

If HomeLink[®] is used to operate a garage door or gate, ensure that nobody is in the vicinity of the door or gate while it is in motion.

Do not use the HomeLink® remote control for any garage door that does not have safety stop and safety reverse. The garage door must react immediately when it detects that something is preventing its movement, and stop directly and reverse. A garage door without these characteristics could cause personal injury. For further information - contact the supplier via the Internet: www.homelink.com.

Programming for the first time

The first step erases the memory in HomeLink[®] and must not be carried out when only one individual button is being reprogrammed.

- Depress the two outer buttons and do not release until the indicator lamp starts to flash after approx. 20 seconds. The flashing indicates that HomeLink[®] is set in "learn mode" and is ready to be programmed.
- 2. Position the original remote control 5-30 cm from HomeLink[®]. Monitor the indicator lamp.

HomeLink[®] *

02

••

The particular distance that is required between the original remote control and HomeLink[®] depends on the programming of the device in question. Perhaps several attempts will be required at different distances. Maintain each position for approx. 15 seconds before trying a new one.

- Depress the button for the original remote control and the button to be programmed on HomeLink[®] simultaneously. Do not release the buttons until the indicator lamp has changed over from slow to rapid flashing. The rapid flashing indicates successful programming.
- Test the programming by depressing the programmed button on HomeLink[®] and watching the indicator lamp:
 - **Constant glow:** The indicator lamp illuminates with a constant glow when the button is kept depressed, this indicates that the programming is complete. The garage door, gate or similar should now be activated when the programmed HomeLink[®] button is depressed.
 - Glow not constant: The indicator lamp flashes quickly for approx. 2 seconds and then changes over to a constant glow for approx. 3 seconds. This proc-

ess is repeated for approx. 20 seconds and indicates that the device has a "rolling code". The garage door, gate or similar is not activated when the programmed HomeLink[®] button is depressed. Continue the programming in accordance with the following.

- 5. Locate the "programming button¹" on the receiver for the garage door for example, normally located close to the antenna's bracket on the receiver. If you have difficulty in finding the button - consult the supplier's manual, or contact the supplier via the Internet: www.homelink.com.
- Depress and release the "programming button". The button flashes for approx. 30 seconds and the next step must be carried out within this period.
- Depress the programmed button on HomeLink[®], while the "programming button" is still flashing, keep it depressed for approx. 3 seconds and then release. Repeat the press/hold/release sequence up to 3 times to conclude the programming.

Programming individual buttons

To reprogram an individual button, proceed in accordance with the following:

- Depress the required button on HomeLink[®] and do not release until step 3 has been completed.
- When the indicator lamp on HomeLink[®] starts to flash, after approx. 20 seconds, position the original remote control 5-30 cm from HomeLink[®]. Monitor the indicator lamp.

The particular distance that is required between the original remote control and HomeLink depends on the programming of the device in question. Perhaps several attempts will be required at different distances. Maintain each position for approx. 15 seconds before trying a new one.

- 3. Depress the button on the original remote control. The indicator lamp will start to flash. When the flashing has changed over from a slow to a rapid flashing release both buttons. The rapid flashing indicates successful programming.
- 4. Test the programming by depressing the programmed button on HomeLink and watching the indicator lamp:

¹ Button designation and colour vary depending on manufacturer.

02 Instruments and controls

HomeLink[®] *

- **Constant glow:** The indicator lamp illuminates with a constant glow when the button is kept depressed, this indicates that the programming is complete. The garage door, gate or similar should now be activated when the programmed HomeLink[®] button is depressed.
- Glow not constant: The indicator lamp flashes quickly for approx. 2 seconds and then changes over to a constant glow for approx. 3 seconds. This process is repeated for approx. 20 seconds and indicates that the device has a "rolling code". The garage door, gate or similar is not activated when the programmed HomeLink[®] button is depressed. Continue the programming in accordance with the following.
- 5. Locate the "programming button²" on the receiver for the garage door for example, normally located close to the antenna's bracket on the receiver. If you have difficulty in finding the button consult the supplier's manual, or contact the supplier via the Internet: www.homelink.com.
- Depress and release the "programming button". The button flashes for approx. 30 seconds and the next step must be carried out within this period.

 Depress the programmed button on HomeLink[®], while the "programming button" is still flashing, keep it depressed for approx. 3 seconds and then release. Repeat the press/hold/release sequence up to 3 times to conclude the programming.

Erasing programming

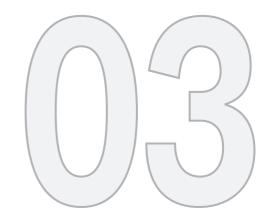
It is only possible to erase the programming for all the buttons on HomeLink[®], not for individual buttons.

- Depress the two outer buttons and do not release until the indicator lamp starts to flash after approx. 20 seconds.
 - HomeLink[®] is now set in so-called "learn mode" and is ready to be programmed once more, see page 80.

 $^{^{2}\,}$ Button designation and colour vary depending on manufacturer.



			-30 -20 -10
General information on climate control	86		
Electronic climate control, ECC*	88		
Air distribution	91	11	
Fuel-driven engine block heater and passenger compartment heater*	92		
Fuel-driven auxiliary heater* (diesel)	95		



CLIMATE CONTROL



General information on climate control

Air conditioning

The climate control system cools or heats as well as dehumidifies the air in the passenger compartment. The car is equipped with either manual (AC) or electronic climate control (ECC, Electronic Climate Control).

i) NOTE

The air conditioning system can be switched off, but to ensure the best possible air in the passenger compartment and prevent the windows from misting, it should always be on.

Misting windows

Remove misting on the insides of the windows by first using the defroster function.

To reduce the risk of misting, clean the windows with a normal window cleaning agent.

Ice and snow

Remove ice and snow from the climate control air intake (the grille between the bonnet and the windscreen).

Fault tracing and repair

Volvo recommends that you only entrust fault tracing and repair of the climate control system to an authorised Volvo workshop.

Refrigerant

The air conditioning system contains R134a refrigerant. This refrigerant contains no chlorine, which means that it is harmless to the ozone layer. The system must only be charged with R134a refrigerant, see also page 276. Volvo recommends that an authorised Volvo workshop carries out this work.

Passenger compartment filter

All air entering the car's passenger compartment is only cleaned with one filter. This must be replaced at regular intervals. Follow the Volvo Service Programme for the recommended replacement intervals. If the car is used in a severely contaminated environment, it may be necessary to replace the filter more often.

i) NOTE

There are different types of passenger compartment filter. Make sure that the correct filter is fitted.

Display

There is a display above the climate control panel. This displays climate control settings.

Personal preferences

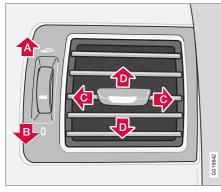
You can set preferences for two climate control functions:

- Fan speed in **AUTO** mode (applies only to cars with ECC).
- Recirculation timer for passenger compartment air.

For information about these settings, see page 77.

General information on climate control

Air vents in the dashboard



- A Open
- Closed
- Lateral airflow
- Vertical airflow

Aim the outer vents towards the side windows to remove misting from the front side windows.

During cold weather - Close the centre vents for optimum comfort and best demisting.

ECC

Actual temperature

The temperature you select corresponds to the physical experience with reference to factors such as air speed, humidity and solar radiation in and around the car.

The system includes a sun sensor which detects the side from which the sun is shining into the passenger compartment. This means that the temperature can differ between the right and left-hand air vents despite the controls being set for the same temperature on both sides.

Sensor location

- The sun sensor is on the top side of the dashboard.
- The temperature sensor for the passenger compartment is behind the climate control panel.
- The outside temperature sensor is located on the door mirror.
- The humidity sensor is located in the interior rearview mirror.

i) note

Do not cover or block the sensors with clothing or other objects.

Side windows and sunroof

To ensure that the air conditioning works satisfactorily, close all side windows and the roof.

Acceleration

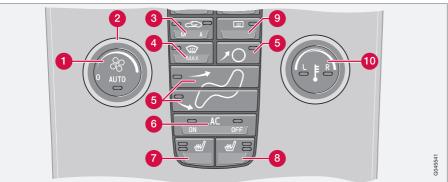
The air conditioning system switches off temporarily at full throttle. You may briefly feel a temporary rise in temperature.

Condensation

In warm weather, condensation from the air conditioning may drip under the car. This is normal.

Electronic climate control, ECC*

Control panel



- 2 Fan
- 8 Recirculation/Air quality system
- 4 Defroster
- 6 Air distribution
- 6 AC ON/OFF Air conditioning On/Off
- Heated front left seat
- 8 Heated front right seat
- 9 Rear window and door mirror defrosters
- Temperature selector

Functions

1. AUTO



The **AUTO** function automatically regulates climate control and maintains the selected temperature. The AUTO function controls heating, air conditioning, fan speed, recirculation, and air

distribution.

When the roof is open more air and heat/cold is directed down in the passenger compartment, and the output of the climate control is limited if it is not possible to compensate for the outside temperature If you select one or more manual functions, the other functions continue to be controlled automatically. All manual settings are switched off when **AUTO** is switched on. The display shows **AUTO CLIMATE**.

2. Fan



Turn the knob to increase or decrease fan speed. If **AUTO** is selected then fan speed is regulated automatically. The previously set fan speed is disengaged.

Electronic climate control, ECC*

i note

If the knob is turned anticlockwise and the fan indicator in the display goes out, the fan and the air conditioning are switched off. The display shows the fan symbol and **OFF**.

3. Recirculation



The function is selected to shut out bad air, exhaust gases etc. from the passenger compartment. The air in the passenger compartment is recirculated, i.e. no outside air is taken into the car when

this function is activated. If the air in the car recirculates for too long, there is a risk of misting on the insides of the windows.

Timer

The timer function reduces the risk of icing, misting and bad air (if recirculation is selected). To activate/deactivate the function see page 77.

i note

When Defroster (4) is selected, recirculation is always deactivated.

3. Air quality system*

Same button as recirculation.

The air quality system consists of a multi-filter and a sensor. The filter separates gases and particles to reduce the levels of odours and pol-

lution in the passenger compartment. When the sensor detects polluted outside air, the air intakes are closed and the air in the passenger compartment is recirculated. A green light (**A**) illuminates in the button when the air quality sensor is active.

Activating the air quality sensor:

Press AUTO (1) to activate the air quality sensor (normal setting).

Or:

- Switch between three functions by pressing repeatedly the recirculation button.
- Air quality sensor engaged the light (A) illuminates.
- No recirculation engaged, provided it is not required for cooling in hot weather – light not illuminated.
- Recirculation engaged the light (M) illuminates.

Keep the following in mind:

- As a rule, the air quality sensor should always be engaged.
- Recirculation is limited in cold weather to avoid misting.
- The defroster functions for the front, side and rear windows can be used to demist the windows.

4. Defroster



Used to quickly remove misting and ice from the windscreen and side windows. Air flows to the windows at high fan speed. The light in the defroster button illuminates when the function is active.

The following also takes place when the defroster function is activated in order to provide maximum dehumidification in the passenger compartment:

- the air conditioning (AC) is automatically switched on (can be switched off with the AC button (6)
- recirculation is automatically disengaged.

When the defroster is switched off the climate control returns to the previous settings.

Electronic climate control, ECC*

5. Air distribution



The airflow can be distributed to the windows, dashboard vents or floor by pressing the air distribution buttons.

A symbol on the display above the climate control

panel and an illuminated light in the relevant button indicate which function has been selected.

Refer to the table on page 91.

6. AC - On/Off (ON/OFF)



ON: The air conditioning is on. It is controlled by the system's AUTO function. This way, incoming air is cooled and dehumidified.

OFF: Off

When the defroster function is activated the air conditioning is automatically switched on (can be switched off with the **AC** button).

i note

The climate control system's demisting function with humidity sensor is significantly reduced with the air conditioning in deactivated mode (**OFF**), as well as with manually selected air distribution and fan speed. 7 and 8. Heated front seats* To activate front seat heating:



Higher heat:

 Press the button once – both lights illuminate.

Lower heat:

 Press the button once – one light illuminates.

Heat off:

- Press the button three times light not illuminated.
- 9. Rear window and door mirror defrosters

111

Heating is used to quickly remove misting and ice from the rear window and door mirrors. Press the button once to start simultaneous rear window and rearview mirror defrosting. The function is

active if one lamp is illuminated in the button.

The function is switched off manually or automatically. Switch off manually with one press on the button. Automatic switching off disconnects the rear window and door mirrors after 12 – 20 minutes depending on outside temperature.

During cold weather the defrosting* also continues after 20 minutes in order to keep the rear window and door mirrors free of ice and mist. The intensity of the defrosting can be adapted to the outside temperature. This function must be switched off manually.

10. Temperature selector



The temperatures on the driver and passenger sides can be set independently.

Press the button once to activate one side only. Press again to activate the other

side. Press the button a third time to activate both sides.

The active side is indicated by the button's light and in the display above the climate control panel.

When the car is started, the most recent setting is resumed.

NOTE

Heating or cooling cannot be hastened by selecting a higher or lower temperature than the actual desired temperature.

Air distribution

	Air distribution	Use:	Air distribution	Use:
MAX	Air to windows. Some air flows from the air vents. The air is not recirculated. Air conditioning is always engaged.	to remove ice and misting quickly.	Air to the floor and windows. Some air flows from the dash- board air vents.	to ensure comfortable conditions and good demisting in cold or humid weather.
	Air to windscreen and side windows. Some air flows from the air vents.	to prevent misting and icing in a cold and humid climate. (Not for low fan speed.)	Air to floor and from dash- board air vents.	in sunny weather with cool outside tempera- tures.
	Airflow to windows and from dashboard air vents.	to ensure good com- fort in warm, dry weather.	Air to floor. Some air flows to the dashboard air vents and windows.	to warm the feet.
	Airflow to the head and chest from the dashboard air vents.	to ensure efficient cooling in warm weather.	Airflow to windows, from dashboard air vents and to the floor.	to provide cooler air for the feet or warmer air to the upper body in cold weather or hot, dry weather.

Fuel-driven engine block heater and passenger compartment heater*

General information about heaters

The parking heater heats the engine and passenger compartment and can be started directly or with the timer.

Two different times can be selected using the timer. Here, time refers to the time when the car is heated and ready. The car's electronic system calculates when heating should be started based on the outside temperature.

At -10 °C or lower the maximum running time of the parking heater is 50 minutes.

🚹 WARNING

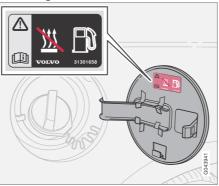
03

The car must be outdoors when the petrol or diesel heater is used.

i note

When the parking heater is active there may be smoke from underneath the car, which is perfectly normal.

Refuelling



Warning decal on fuel filler flap.

<u> M</u> WARNING

Fuel which spills out could be ignited. Switch off the fuel-driven heater before starting to refuel.

Check on the information display that the parking heater is switched off. When it is running, the information display shows **PARK HEAT ON**.

Parking on a hill

If the car is parked on a steep hill, the front of the car should point downhill to ensure that there is a supply of fuel to the parking heater.

Battery and fuel

If the battery has insufficient charge or the fuel level is too low, the parking heater is switched off automatically and a message appears on the information display.

 Acknowledge the message by pressing the indicator stalk **READ** button once.

IMPORTANT

Repeated use of the parking heater combined with short journeys may discharge the battery and impair starting.

The car should be driven for the same time as the heater is used to ensure that the car's battery is recharged adequately to replace the energy consumed by the heater when it is used on a regular basis.

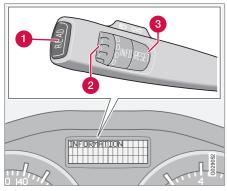
Fuel-driven engine block heater and passenger compartment heater*

Activating the heater

READ button

Thumbwheel¹

RESET button¹



Symbols and display messages



D

ΤI EI

When one of the timer's settings or Direct start is activated, the information symbol in the combined instrument panel illuminates and the information display shows an explanatory text.

isplay	Specification
JEL HEATER ON	The heater is switched on and running.
MER IS SET FOR JEL HEATER	Reminder that the heater will start at the set time after the car has been left, when the remote control key is removed from the ignition switch.

Display	Specification
HEATER STOP- PED LOW BAT- TERY	The heater has been stopped by the car's electronics in order to facilitate starting the engine.
HEATER STOP- PED LOW FUEL LEVEL	The heater has been stopped by the car's electronics in order to facilitate starting the engine as well as 50 km driving.

Direct start and immediate stop

- 1. Scroll with the thumbwheel to DIRECT START PARK HEAT OFF or DIRECT START PARK HEAT ON.
- 2. Long presses on the **RESET** button change between the two alternatives.

DIRECT START PARK HEAT ON: Parking heater switched on manually or with programmed timer.

DIRECT START PARK HEAT OFF: Parking heater switched off.

••

¹ No function in cars without trip computer, fuel-driven parking heater as well as stability and traction control system.

Fuel-driven engine block heater and passenger compartment heater*

With the direct start of the heater it will be activated for 50 minutes.

Heating of the passenger compartment will begin as soon as the engine coolant has reached the correct temperature.

i NOTE

03

The car can be started and driven while the parking heater is running.

Setting the timer

The time when the car shall be used and heated is specified with the timer.

Select between TIMER 1 and TIMER 2.

- 1. Scroll with the thumbwheel to PARK HEAT TIMER --:-- ON.
- 2. Give a long press (approx. 2 seconds) on the **RESET** button in order to access the flashing time setting.
- 3. Select the required hour using the thumbwheel.
- 4. Briefly press **RESET** to move to the flashing minutes setting.
- 5. Select the required minute using the thumbwheel.
- 6. Briefly press RESET to confirm the setting.

7. Press RESET to activate the timer.

After setting **TIMER 1** a second start time can be programmed with **TIMER 2** by scrolling with the thumbwheel.

Set the alternative time in the same way as **TIMER 1**.

Deactivating a timer-started heater

A timer-started heater can be switched off manually before the set time has elapsed. Proceed as follows:

- 1. Press the READ button.
- 2. Use the thumbwheel to scroll to the text PARK HEAT TIMER 1 or PARK HEAT TIMER 2.

The text **ON** flashes on the display.

3. Press RESET.

The text **OFF** is shown with a constant glow and the heater is switched OFF.

A timer-started heater can be switched off in accordance with the instructions in the section "Direct start and immediate stop".

Clock/timer

The heater's time is connected to the car's clock.

ΝΟΤΕ

All timer programming will be cleared if the car's clock is reset.



Fuel-driven auxiliary heater* (diesel)

Auxiliary heater (diesel)

In diesel-engined cars the auxiliary heater may be required for achieving the correct temperature in the engine and passenger compartment during cold weather.

The heater starts automatically when extra heat is required when the engine is running.

The heater is switched off automatically when the correct temperature is reached or when the engine is switched off.

i NOTE

The auxiliary heater cannot be switched on or off manually but is only controlled by the car's electronics.

When the auxiliary heater is active there may be smoke from underneath the car, which is perfectly normal.

X			A
	Front seats	. 98	
	Electrically operated roof	103	
	Wind deflector*	106	
	Interior lighting	107	
	Storage spaces in the passenger compartment	110	
	Cargo area	114	



INTERIOR



) 04 Interior

Front seats

Seating position, manual seat



The driver's and passenger seats can be adjusted to the optimum sitting and driving positions.

- Forward/backward: lift the handle to adjust the distance to the steering wheel and pedals. Check that the seat is locked after changing the position setting.
- 2 Raise/lower front edge of seat cushion, pump up/down.
- 3 Raise/lower the seat, pump up/down.
- 4 Lumbar support¹, turn the wheel.

1 Also applies to power seat.

6 Backrest rake: turn the wheel.

6 Control panel for power seat*.

Lever (2) is not available on all seat models.

WARNING

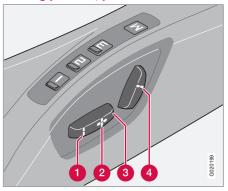
Adjust the position of the driver's seat and adjust the seatbelt, see page 16, before setting off, never while driving.

Check that the seat is locked in position.

i) NOTE

When putting on the seatbelt it is easiest to pick it up from down at the seatbelt guide, not over the shoulder.

Seating position, power seat*



The seats can be adjusted for a certain time after unlocking the door with the remote control key without the key being inserted into the ignition switch. The seat can always be adjusted in key position I or II.

1 Front edge of seat cushion up/down

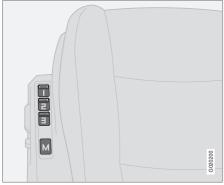
2 Seat, forwards/backwards

- 3 Seat, up/down
- 4 Backrest rake

Front seats

An overload protection is deployed if one of the seats is blocked. If this happens, turn off the ignition and wait a short time before adjusting the seat again. Only one of the seat's settings can be adjusted at a time.

Memory function



Buttons for memory function.

Store setting

- 1. Adjust the seat and the door mirrors.
- 2. Press and hold button **M** while pressing button **1**, **2** or **3** simultaneously.

Using a stored setting

Press one of the memory buttons **1–3** until the seat and the door mirrors stop. If you release

the button then the movement of the seat will stop.

Emergency stop

If the seat accidentally begins to move, press one of the setting buttons for the seat or memory buttons in order to stop the seat.

Risk of crushing. Make sure that children do not play with the controls.

Check that there are no objects in front of, behind or under the seat during adjustment.

Ensure that none of the rear seat passengers is in danger of becoming trapped.

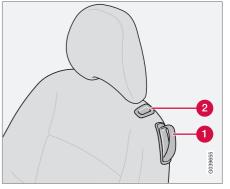
Memory in remote control key

The positions of the driver's seat and the door mirrors are stored in the memory for the remote control key with which the car is locked. When the car is unlocked with the same remote control key the driver's seat and the door mirrors adopt the stored positions when the driver's door is opened.

I NOTE

The remote control key memory is independent of seat memory.

Entry to rear seat, manual seat



- 1 Handle for lowering the backrest
- 2 Button for moving the power seat longitudinally

) ΝΟΤΕ

No one may sit in the seat when it is pushed forward for entry into the rear seat.

) ΝΟΤΕ

Lower the seat before it is pushed forward otherwise there is a risk that the head restraint makes contact with the sun visor.



Front seats

Push the seat forward



Release the seatbelt from the seatbelt guide, see also page 18.



- 2 Lift the handle
- Fold the backrest forward to the locked position.
- 4. Push the seat forward.





- Lift the handle and fold back the backrest.
- 2. Push the seat backward.
- 3. Adjust the seat longitudinally.
- 4. Refit the seatbelt in the seatbelt guide.

If the seat does not return to the same position, as before it was folded for entry, after having been pushed back - then proceed as follows:

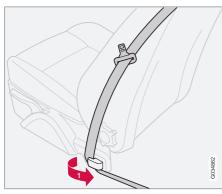
- 1. Sit down in the seat.
- 2. Lift the handle (1), see page 98, and push the seat to the rear end position.

Front seats

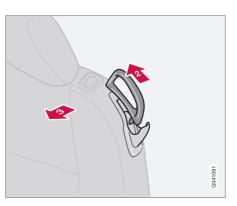
3. Continue to lift of the handle, and push the seat forward to the desired position and release the handle.

Entry to rear seat, power seat

Push the seat forward



Release the seatbelt from the seatbelt guide, see also page 18.



- Lift the handle.
- Fold the backrest forward to the locked position.



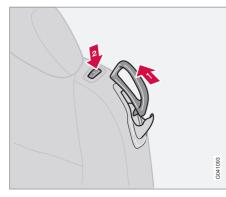
Hold down the front section of the button.

If the seat is set in a higher position - then it will be lowered automatically to avoid the head restraint making contact with the sun visor.



Front seats

Push the seat backward



- I Lift the handle and fold back the backrest.
- P Hold down the rear section of the button.
- 3. Refit the seatbelt in the seatbelt guide.

i NOTE

The seat can only be moved to the very front (+6 cm) to facilitate entry and exit to and from the rear seat when the backrest has been folded forward. If the backrest is folded back when the seat is in the front position then the seat automatically moves back approx. 6 cm after a few seconds.

\Lambda WARNING

Check that the backrest is properly folded back by pushing and pulling the head restraint.

The belt on the front passenger side must be in the belt guide during driving, even when there is no passenger sitting in the seat.

Inlaid mats*

Volvo supplies inlay mats which are especially produced for your car.

🔥 WARNING

Before setting off check that the inlaid mat in the driver area is firmly affixed and secured in the pins in order to avoid getting caught adjacent to and under the pedals.

Electrically operated roof

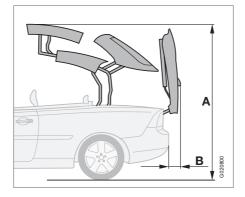
Conditions for roof operation

- No objects on the parcel shelf.
- No ice, snow or loose objects on the roof or boot lid.
- Dry roof.
- 2.0 m clearance upward (A) and 0.2 m between the bumper and objects behind (B).
- Ambient temperature -10 °C or warmer.
- Closed cargo separator, see page 114.
- Closed boot lid.
- Stationary car, brake pedal depressed.

If the instructions on the following pages are not followed then this could cause damage to the roof's opening and closing mechanisms.

Volvo also recommends that the following is observed:

- Level ground.
- Execution of roof operation in one single movement.
- Engine at idling speed.



IMPORTANT

Water collecting on the roof can run down into the cargo area and the passenger compartment if the roof is opened.

🚹 WARNING

People, children or objects can be trapped by the roof or boot lid's moving parts.

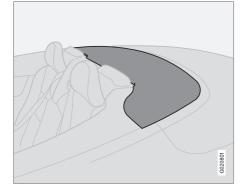
- Operate the roof with caution.
- See decal on the cargo separator.
- Do not allow children to play with the controls.
- Do not leave the roof in a stationary position for longer than necessary.

🚹 WARNING

Never leave the remote control key in the car if there are children left in the car.

Electrically operated roof

Hatch cover

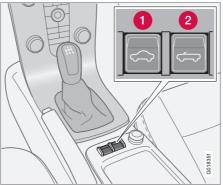


When the roof is open there is a hatch cover between the head restraints in the rear seat and the boot lid, see the preceding illustration.

IMPORTANT

Do not sit on the hatch cover or use it as a support as it could be damaged.

Opening and closing the roof



- Close the roof
- 2 Open the roof
- 1. Turn the remote control key to position **II**. Preferably starting the engine.
- 2. Depress the brake pedal.
- 3. Keep the left-hand button (1) pressed in to close, or the right-hand button (2) to open.

Pay attention to any messages on the information display while the roof is in motion. The windows that are closed are opened approx.10 centimetres. All windows are closed when the movement of the roof is completed. Release the button when a signal sounds and the message **ROOF CLOSED** or **ROOF OPEN** is shown on the information display.

Never pull the release wire for the hydraulic system that is located under the rear seat cushion. Only service personnel are allowed to use the hydraulic system's emergency release function.

Consequences:

- significant risk of crushing injury
- uncontrolled movement/opening of the electrically operated roof or boot lid
- the roof components could be destroyed.

Make thoroughly sure that the conditions are fulfilled before operating the roof.

Text on the information display

A number of these messages also apply to loading assistance, see page 114.

- PRESS BRAKE FOR ROOF OPERATION - Depress the brake pedal in order to operate the roof.
- CLOSE BOOT FOR ROOF OPERATION

 The boot lid is not closed. Close the boot lid.

Electrically operated roof

- OPEN BOOT LID FULLY Open boot lid fully.
- CLOSE BOOT SEP. FOR ROOF
 OPERAT. The cargo separator is not
 closed. Close the cargo separator, see
 page 114.
- LOW BATTERY FOR ROOF OPERATION - The battery voltage is too low. The roof can only be closed. Charge the battery, e.g. by starting the engine, and try again.
- **ROOF NOT LOCKED** The roof has not been opened or closed properly. Try again to open or close the roof.
- ROOF IN LOAD AID POSITION The roof has been raised with the loading assistance function. Lower the roof, see page 114.
- TEMP LIMITS ROOF OPERATION The roof system is either overheated or the outside temperature is below -10 °C. If the roof is overheated, wait approx. 5 minutes until the message clears and try again.

Messages with roof faults

Two messages can be shown on the information display in the event of a roof fault:

- ROOF FAILURE SERVICE REQUIRED -The roof cannot be operated. This requires service by an authorised Volvo workshop.
- ROOF FAILURE SEE MANUAL The roof or loading assistance must be operated in accordance with special instructions. Service must be performed by an authorised Volvo workshop.

Special instructions for manoeuvring in the event of a roof fault

If the message **ROOF FAILURE SEE MANUAL** is shown on the information display then the roof cannot be operated normally.

i) NOTE

After the roof has been closed it cannot be opened again.

IMPORTANT

Closing in the event of a roof fault requires very careful checking of the conditions for operating the roof, see page 103. Even if the conditions are fulfilled, there is a significant risk of material damage.

 Keep the closing button pressed in until **ROOF FAILURE SEE MANUAL** is shown on the display. Following which, release the button. 2. Press the closing button again. Press the closing button again. Keep it pressed in for at least 30 seconds until the roof and boot lid are closed. Pay attention for any faults that could cause damage to the car.

A signal sounds during the whole closing operation.

\Lambda WARNING

Never pull the release wire for the hydraulic system that is located under the rear seat cushion. Only service personnel are allowed to use the hydraulic system's emergency release function.

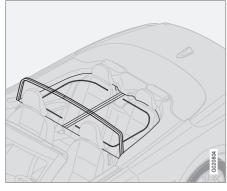
Consequences:

- significant risk of crushing injury
- uncontrolled movement/opening of the electrically operated roof or boot lid
- the roof components could be destroyed.

Repairs must only be performed by an authorised Volvo workshop. Any interference in the roof system could cause malfunction and serious injury as a result.

Wind deflector*

General



The wind deflector can be used when driving with a lowered roof to reduce the swirling airflow and draughts in the passenger compartment.

Installing the wind deflector

- 1. Fold out the four-part deflector to is full size and press the catch together.
- Insert the wind deflector's supports under the head restraints so that they are resting against the top edge of the backrest.
- 3. Press the locking levers into the holders on the side panels until a click is heard.
- 4. Open out the wind deflector.

NOTE

Be careful of the car's upholstery.

The zips in the wind deflector are used for storing/retrieving luggage on the rear seat.

🚹 WARNING

Check that the wind deflector is secured firmly. Otherwise it may detach in the event of sudden movement for example and then cause injury and damage.

🚹 WARNING

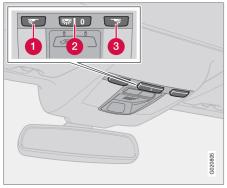
No passengers are allowed in the rear seat when the wind deflector is fitted.

Store the protection in its bag on the floor in the cargo area.

04 Interior

Interior lighting

Reading lamps and interior lighting



Controls in roof console for front reading lamps and passenger compartment lighting.

- Reading lamp left-hand, On/Off
- 2 Interior lighting
- 3 Reading lamp right-hand, On/Off

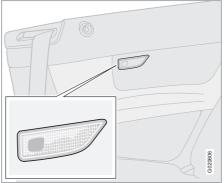
All lighting in the passenger compartment can be switched on in key position I and II as well as when the engine is running. The lighting can also be activated within 30 minutes after:

- the engine has been switched off and the remote control key is in position **0**
- the car has been unlocked but the engine has not been started.

Roof lighting

The reading lamps are switched on or off by pressing the relevant button in the roof console.

Rear seat lighting

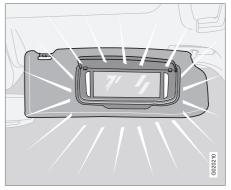


Switched on or off with one press of the button.

Courtesy lighting

Courtesy lighting (and passenger compartment lighting) is switched on and off respectively when a side door is opened or closed.

Vanity mirror*



The lamp is automatically switched on and off respectively when the cover is opened or closed.

Glovebox lighting

Glovebox lighting is switched on and off respectively when the lid is opened or closed.

Interior lighting

Automatic lighting

Using the switch (2), see page 107, three positions can be selected for the lighting the passenger compartment:

- Off right-hand side (marked with 0) depressed, automatic lighting switched off.
- Neutral position automatic lighting activated. The dimmer function is active.
- On left-hand side depressed, passenger compartment lighting on.

Neutral position

When the switch (2) is in neutral position passenger compartment lighting is switched on and off automatically in accordance with the below.

The passenger compartment lighting is switched on and remains on for 30 seconds if:

- the car is unlocked with the remote control key or key blade.
- the engine is stopped and the remote control key is turned to position **0**.

Passenger compartment lighting is switched off when:

- the engine is started
- the car is locked with the key or remote control key.

Passenger compartment lighting comes on and remains on for 5 minutes if one of the doors is open.

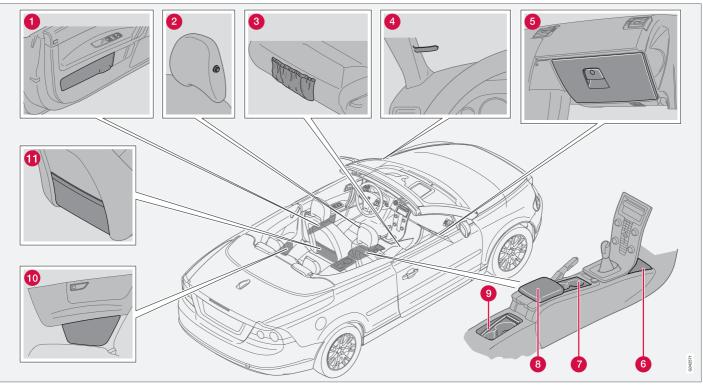
If any lighting is switched on manually and the car is locked then it will be switched off automatically after 5 minutes.



Interior lighting



Storage spaces



- 1 Storage compartment in door panel.
- 2 Coat hanger, only for light garments.
- Storage pocket on front edge of front seat cushions.
- 4 Ticket clip
- 6 Glovebox
- 6 Storage compartment behind the centre console
- Oup holder (with roller cover*)
- 8 Tunnel compartment (e.g. for CDs)
- Oup holder (with roller cover*)
- (1) Storage compartment in rear side panel.
- **1** Storage pocket on rear of front seats.

🛕 WARNING

Ensure that no hard, sharp or heavy objects lie or protrude in such a way that they could cause injury during heavy braking.

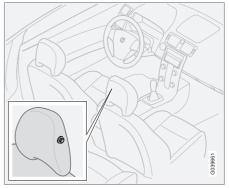
Always secure large and heavy objects with a seatbelt or cargo retaining straps.



The owner's manual and maps can be kept here for example. There are also holders for coins, pens and fuel cards.

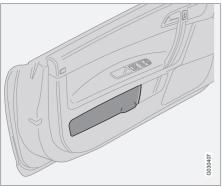
The glovebox can be locked with the remote control key's detachable key blade. Further information is available on page 121.

Coat hanger



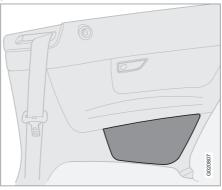
The coat hanger is located on the passenger seat head restraint. Only hang light garments on the hanger.

Storage compartment in door panel



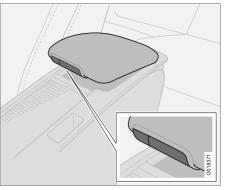
The storage compartment is opened by lifting the lower front edge of the lid, and closed with a touch on its upper section.

Storage compartment in rear side panel

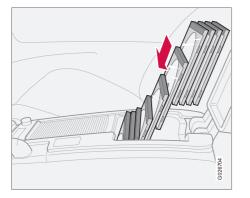


The storage compartment is opened and closed with a touch in the centre of its upper section.

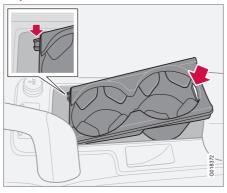
Storage under the front armrest



There is a storage space under the armrest. There is also a smaller storage space in the detachable armrest. Press the small button and lift the armrest to open the shallow compartment. Press the large button and lift the armrest to open the deeper compartment.



In the deeper compartment there is space for 10 normal CD cases. The cases must be stored vertically on the top edge for all 10 to have space.



Cup holder in centre console

There is space for a double cup holder under the roller cover. The space can be used for storage by lifting out the cup holder. Lift at the rear edge of the cup holder where there is a recess.

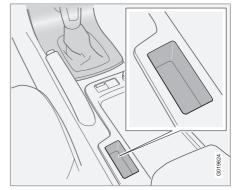
If the cup holder is being fitted - first align its two guide lugs in the two recesses in the front edge of the space and then press down the rear edge of the cup holder.

The cup holder cannot be lifted out from cars which have alarm with movement detector*.

Avoid storing coins, keys or similar metal objects in the cup holder as such objects could accidentally trigger the alarm*, see page 134.

Close the roller cover by gripping its front edge from below and pulling forward.

Storage compartment behind the handbrake



When there are no buttons for parking assistance and BLIS, see page 161 and page 164, the space can be used as a storage compartment.

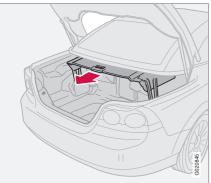
\Lambda WARNING

Objects placed in this storage compartment must not obstruct the parking brake lever when it is applied.



Cargo area

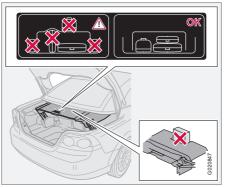
Cargo separator



The purpose of the separator is to limit the amount of the load in the cargo area so that the movement of the roof is not disrupted. Be sure to close the cargo separator fully so that it is locked on both the left and right-hand sides.

IMPORTANT

Do not place objects above or alongside the cargo separator when it is closed. Do not position luggage so that it is higher that the closed cargo separator.

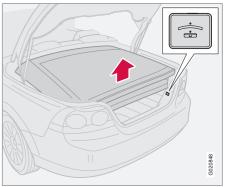


Label on cargo separator.

(i) NOTE

Too much load in the cargo area prevents the cargo separator from being closed. Consequently the roof is also prevented from opening.

Loading assistance



Button for raising and lowering the roof.

In open position the roof is folded up in the cargo area. The roof can be raised or lowered to facilitate loading and unloading using the button (see preceding illustration). The movements for loading assistance constitute a small amount of the normal movement of the roof. Consequently the messages for roof operation on the information display also apply to loading assistance, see page 104.

04 Interior

Cargo area

🚹 WARNING

People or objects which prevent the raising and lowering of the roof are at risk of being trapped.

Using loading assistance

One press on the button both starts and stops raising/lowering. It may take several seconds before the movement starts. If a signal sounds when the button is pressed and the roof does not move, read the message on the information display.

- 1. Press the button to raise the roof.
- 2. Lift the cargo separator and move it into the cargo area.
- 3. When loading is complete, fold down the cargo separator.
- 4. Press the button so that the roof is lowered.

i note

If the battery level is too low then the roof can only be lowered.

Using loading assistance with roof faults

If the message **ROOF FAILURE SEE MANUAL** is shown on the information display then the roof can only be lowered.

- 1. Check that **ROOF FAILURE SEE** MANUAL is shown on the display.
- Keep the button depressed for approx.
 5 seconds. Keep the button depressed while the roof is lowered.

A signal sounds during the whole lowering operation.

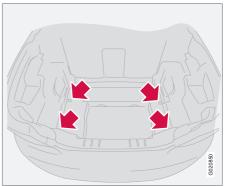
IMPORTANT

The cargo separator should be fully open before opening the roof.

When the roof is raised for loading assistance or if the movement is interrupted by pressing in the button twice then the boot lid must not be closed. This could result in damage and malfunction in the system.

Lower the roof to its lowest position, wait a few seconds and then close the boot lid.

Load retaining eyelets



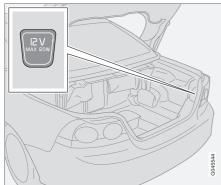
There are four or more eyelets for securing straps or ropes. Straps that are suitable for the eyelets are supplied by Volvo dealers.



04 Interior

Cargo area

Electrical socket in cargo area

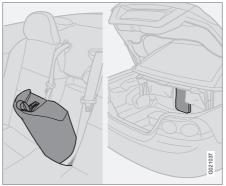


Fold down the cover to access the electrical socket. This socket works regardless of whether or not the ignition is on.

i note

Remember that using the electrical socket with the engine switched off involves the risk of discharging the car's battery.

Ski hatch



There is a hatch behind the centre panel¹ in the rear seat backrest for transporting long, light objects.

Max. length: 2 m and max. weight: 25 kg. The ski hatch is opened from two directions, from the centre panel and from inside the cargo area.

Open the centre section in the back of the rear seat

 Pull the strap in the top of the backrest centre section to access the hatch.

Close the centre section in the back of the rear seat

- 1. Refit the centre section with the lower part first.
- 2. Fold in the centre section and press until a clicking sound is heard.

Hatch in cargo area

If the car is equipped with ski bag* then the zip in the bag must also be opened from the passenger compartment.

 Press the buttons in the two holes in the hatch towards each other and open the hatch.

Secure long loads with the seatbelt

Long loads, for example skis, must be secured with the rear seat's seatbelt.

 Wrap the seatbelt one turn around the skis and lock it in the normal way in the seatbelt buckle.

If the car is equipped with a ski bag* then the belt must be threaded through its handle.

¹ Emergency puncture repair kit, first aid and towing eye are stored in the centre panel in the rear seat backrest. For cars with spare wheel*, see page 188.



Cargo area

M WARNING

Stop the engine and apply the parking brake when loading or unloading long objects. A loose object weighing 20 kg can, in a frontal collision at a speed of 50 km/h carry the impact of an item weighing 1000 kg. Always secure the load. Always secure the load. During heavy braking the load may otherwise shift, causing personal injury to the car's occupants.

Remote control key with key blade	120
Active locks	123
Privacy locking*	124
Keyless drive*	126
Battery in remote control key	129
Locking and unlocking	
Alarm*	134



LOCKS AND ALARM



Remote control key with key blade

Remote control key

The car is supplied with 2 remote control keys.

The remote control keys contain detachable metal key blades for mechanical locking/ unlocking of the driver's door and glovebox.

The key blades' unique code is available at authorised Volvo workshops, which are recommended for ordering new key blades.

A maximum of 6 remote control keys/key blades can be programmed and used for one single car.

Turn signal indication during locking/ unlocking

When the car is unlocked using the remote control key or Keyless drive system, two short flashes of the direction indicators serve to indicate that unlocking was correctly performed.

For locking, the indication takes place with one long flash and only if all locks have been locked, after the doors and the boot lid have been closed.

Personal preferences in the menu system can be used to the deactivate indication via the direction indicators. There will then be no visual indication as to whether the lock status is correct, see page 78.

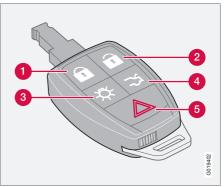
Loss of a remote control key

If you lose a remote control key, take the car and the other remote control keys to a Volvo workshop - an authorised Volvo workshop is recommended. The code of the missing remote control key must be erased from the system as a theft prevention measure.

Immobiliser

The remote control keys are fitted with coded chips. The code must be accepted by the reader (receiver) in the ignition switch. The engine can only be started if the correct remote control key with the correct code is used.

Remote control key functions



- Locking Locks the doors and boot lid. The remote control key does not lock the glovebox - it can only be locked with the key blade.
- 2 Unlocking Unlocks the doors and the boot lid. The remote control key does not unlock the glovebox - it can only be unlocked with the key blade. Press and hold (at least 4 seconds) to also open the side windows.

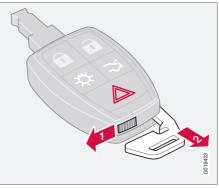
Remote control key with key blade

- Approach lighting Switches on the lighting at a distance lights up the area around a car parked in a dark location. Press the button once to switch on the interior lighting, position/parking lamps, number plate lighting and door mirror lamps (option). The lighting is switched off automatically after 30, 60 or 90 seconds. For information on setting the delay time, see page 78.
- 4 Boot lid Press the button once to unlock the boot lid only¹.
- Panic function Used to attract attention in an emergency. Press and hold the red button for at least 3 seconds or press i t twice within 3 seconds to activate the direction indicators and the horn. The alarm can be deactivated with the same button, after having been armed for at least 5 seconds. Otherwise the function switches off automatically after 30 seconds.

IMPORTANT

The narrow section of the remote control key is particularly sensitive - this contains the chip. The engine cannot be started if the chip is damaged.

Detachable key blade



Using the remote control key's detachable key blade:

- the driver's door can be opened manually if central locking cannot be activated with the remote control key, see page 127.
- access to the glovebox and cargo area (privacy locking) is blocked, see pages 122 and 124.
- the boot lid can be opened manually if the car is de-energised, see page 130.
- PACOS* activated/deactivated, see page 22.

Removing the key blade

To remove the key blade from the remote control key:

- Slide the spring-loaded catch to the side.
- Pull out the key blade at the same time.

Attaching the key blade

Be careful when inserting the key blade into the remote control key.

- Hold the remote control key with the narrow end pointing down and lower the key blade into its slot.
- 2. Lightly press the key blade to lock it in position. You should hear a "click".

Unlocking doors with the key blade

If central locking cannot be activated with the remote control key, e.g. if the batteries are discharged, then the driver's door can be unlocked and opened as follows:

- 1. Insert the key blade in the driver's door keyhole.
- 2. Turn the blade 45 degrees clockwise and open the door.

See also the figure and further information on page 127.

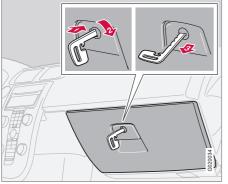
¹ The function unlocks the boot lid – it does not open.

Remote control key with key blade

i NOTE

When the driver's door is unlocked using the key blade and is opened, the alarm is triggered. It is switched off by inserting the remote control key in the ignition switch, see page 135.

Locking the glovebox



The glovebox is locked.

The glovebox can only be locked/unlocked using the remote control key's detachable key blade. (For information on the key blade, see page 121.)

Insert the key blade in the glovebox lock.

- Yurn the key blade 90 degrees clockwise. The keyhole is horizontal in the locked position.
- Pull out the key blade.
- Unlocking takes place in reverse order.

For information on privacy locking, see page 124.

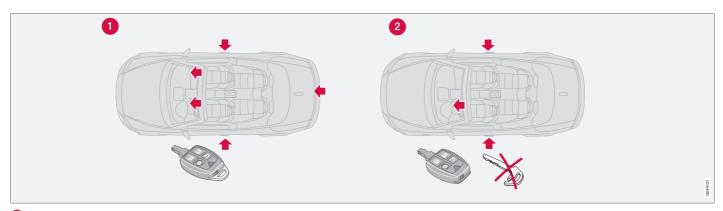
NOTE

The remote control key cannot unlock the glovebox without the key blade.

This function is particularly useful for when the car is left for service, at a hotel or similar.

A

Active locks



- Active locks for remote control key with key blade.
- Active locks for remote control key without key blade.

For a description of the different storage areas, see page 110.

Privacy locking*

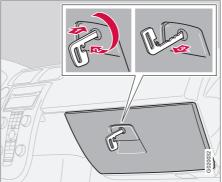
General information on privacy locking

The privacy locking function is intended for when the car is left for service, with a hotel parking valet or similar. The glovebox is then locked and the boot lid lock is disconnected from the central locking - the cargo area cannot be opened with either the central locking buttons on the doors or the remote control key.

This means that the remote control key without key blade can only be used to activate/deactivate the alarm, to open the doors and to drive the car.

The remote control key without key blade can then be handed over to the service or hotel staff - the loose key blade is retained by the car owner.

Activate privacy locking



Privacy locking activated.

1. The folding roof must be closed.

i note

When opening/closing the folding roof there is the option to temporarily access the contents in the cargo area.

- 2. Open the boot lid and fold up the cargo separator; at which operation of the folding roof is blocked, see page 114.
- 3. Close the boot lid.

) NOTE

The information display will show CLOSE BOOT SEP. FOR ROOF OPERAT..

- 4. Remove the detachable key blade from the remote control key, see page 121.
- 5. **II** Insert the key blade in the glovebox lock.
- Image: Value of the second seco
- 7. B Pull out the key blade.

ΝΟΤΕ

Do not reinsert the key blade into the remote control key - keep it in a safe place.

The glovebox is then locked and the boot lid can no longer be unlocked with the remote control key or the central locking button.

Deactivate privacy locking

To reconnect the boot lid to the central locking automatic function, proceed as follows:

 Insert the remote control key's detachable key blade into the glovebox keyhole and turn 180 degrees anticlockwise.



Privacy locking*

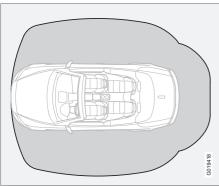
- 2. Refit the key blade into the remote control key, see page 121.
- Open the boot lid and fold down the cargo separator which blocked the operation of the folding roof - the information display text about the cargo separator is then cleared.
- 4. Close the boot lid.

Following which, the glovebox is unlocked and all central locking functions are again controlled by the remote control key and the central locking buttons on the doors.

For information on locking the glovebox only, see page 122.

Keyless drive*

Keyless lock and ignition system



The keyless drive system allows the car to be unlocked, driven and locked without the need for a key. You simply need to have the remote control key with you in a pocket or a bag.

The system makes it easier and more convenient to open the car, for example with shopping bags in one hand and a child in the other. It saves you having to take out or look for the remote control key.

The two remote control keys incorporate the keyless drive function. You can order additional remote controls. The keyless drive system can handle up to six remote controls.

Remote control key max. 1.5 m from the car

In order to open a door or the boot lid, a remote control key must be no more than approx. 1.5 m from the car door handle or boot lid.

This means that the person who wishes to open a door must have the remote control key with him or her. It is not possible to open a door if the remote control key is on the other side of the car.

The grey area in the illustration indicates the range covered by the system's antennas.

If someone leaves the car and takes a keyless drive remote control key with them, a warning message appears on the information display and a reminder signal sounds. The warning message disappears when the remote control key is brought back to the car or when the ignition dial is turned to position **0**. The warning is only issued if the ignition dial is in position **I** or **II** after someone has opened and closed a door.

The warning message and reminder signal disappear when the remote control key is brought back to the car after one of the following actions:

- a door has been opened and closed
- the ignition dial has been turned to position
 0

• the **READ** button has been pressed.

Never leave any remote control key in the car

If a remote control key with keyless drive function is left in the car, it is made passive when the car is locked. This prevents unauthorised entry.

If someone breaks into the car and finds the remote control key, it can be activated and used again. It is therefore important to handle all remote control keys with equal care.

Interference to remote control key function

Electromagnetic fields and screening can interfere with the keyless drive system.

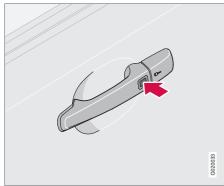
NOTE

Do not place/store the remote control key near a mobile phone or metal object - no closer than 10-15 cm.

If interference is experienced nonetheless, use the remote control key and key blade in the normal way, see page 120.

Keyless drive*

Locking



Cars with the keyless system have a button on the outside door handles.

When the remote control key is within the range covered by the system's antennas, the doors and the boot lid are locked as follows:

 Push in the lock button on one of the door handles.

All doors must be closed before the lock button is pushed in. Otherwise they will not lock.

When the car is locked, the lock buttons on the inside of the doors retract.

An LED on the inside of the door in question illuminates, see page 131.

) NOTE

On cars with the keyless drive system and automatic transmission the gear selector must be moved to the **P** position and the ignition dial turned to the **0** position. Otherwise the car cannot be locked or alarmed.

Unlocking

When the remote control key is within the range covered by the system's antennas:

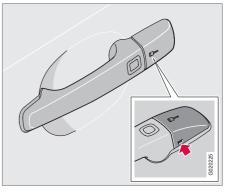
- 1. Open the doors by pulling the relevant handle.
- 2. Open the boot lid by pressing under the boot lid opening button and lift the boot lid.

If for some reason the keyless drive function in the remote control key is not operating, the car can be unlocked using the remote control key functions, see page 120.

Power seat – remote control key with memory function

If several people with keyless drive remote control keys get into the car, then the driver's seat will be adjusted for the person who opens the door first.

Unlocking doors with the key blade



If central locking cannot be activated with the remote control key, e.g. if the batteries are discharged, then the driver's door can be opened as follows:

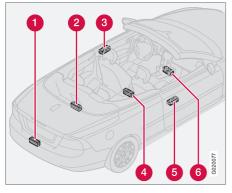
- 1. To access the keyhole: Carefully prize out the plastic cover in the handle by inserting the key blade in the hole on the bottom of the cover.
- 2. Unlock the door using the key blade.

Keyless drive*

i note

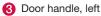
When the driver's door is unlocked using the key blade and is opened, the alarm is triggered. It is switched off by inserting the remote control key in the ignition switch, see page 135.

Antenna location



The keyless system has a number of integrated antennae located around the car:

- Rear bumper, inside centre
- 2 Cargo area, central and furthest in under the floor



- 4 Centre console, under the rear section
- 6 Door handle, right
- 6 Centre console, under the front section

People with pacemaker operations should not come closer than 22 cm to the keyless system's antennae with their pacemaker. This is to prevent interference between the pacemaker and the keyless system.

Personal preferences

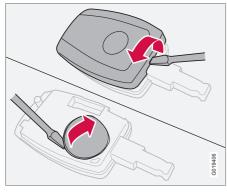
The Keyless Drive system can have personal preferences applied, see page 78.

Battery in remote control key

Low battery in remote control key

When the battery runs down and full functionality cannot be guaranteed, the information symbol (a) and display show KEY BATTERY LOW VOLTAGE or REMOTE BATTERY LOW VOLTAGE.

Changing the remote control key battery



If the locks repeatedly fail to respond to signals from the remote control key at a normal distance, the battery should be replaced (type CR 2450, 3 V).

- 1. Place the remote control key with the keypad downward and prize up the cover using a small screwdriver.
- 2. Remove the cover.
- Carefully examine how the battery's (+) and (-) sides are fitted (there is a diagram under the cover).
- 4. Prize out and change the battery. Avoid touching the battery and its terminals with your fingers.
- 5. Refit the cover and press it in.
 - > Dispose of the old battery in an environmentally-responsible manner.

Locking/unlocking the car from outside

For cars with the Keyless system, see page 126.

Unlocking

Using the remote control key's unlock button the car can be unlocked in two different ways (select in personal settings, see page 78):

- One press unlocks the doors and the boot lid
- One press unlocks the driver's door and a second press unlocks the other doors and the boot lid.

Locking

The remote control key's lock button locks the doors and boot lid simultaneously.

i note

The car can be locked even if the boot lid is open - when the boot lid is then closed there is a risk that the keys will be locked in.

🚹 WARNING

Be aware of the risk of being locked in the car when it is locked from the outside using the remote control key - it is then not possible to open any of the doors from the inside with the door controls. Read more about this in the section "Deadlocks" later on.

Boot lid

Unlocking

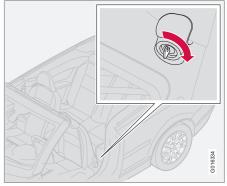
Unlocking boot lid only:

 Press the remote control key's button to unlock the boot lid.

Locking

If the doors are locked when the boot lid is closed then it remains unlocked. Lock with the remote control key's lock button or from inside to lock both doors and the boot lid.

Opening the boot lid mechanically



If the car's electrical systems are temporarily out of order then the boot lid can be opened mechanically with the remote control key's detachable key blade. For information on removing the key blade, see page 121.

- 1. Fold forward the left-hand seat's backrest to access the keyhole down at the floor.
- 2. Fold up the tab that covers the keyhole.
- 3. Insert the key blade and turn it 110 degrees clockwise.

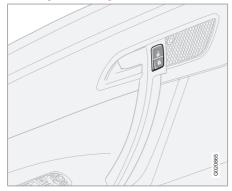
IMPORTANT

The roof must be fully closed or fully open before mechanical opening can be used for the boot lid.

Automatic relocking

If none of the doors or the boot lid is opened within 2 minutes of unlocking, all are locked again automatically (does not apply to locking from inside). This function reduces the risk that the car is left unlocked unintentionally. (For cars with alarm, see page 135.)

Locking/unlocking the car from inside



With the central locking buttons on the doors, the doors and boot lid can be locked or unlocked simultaneously.

Unlocking

 Press the upper section of the central locking button 1.

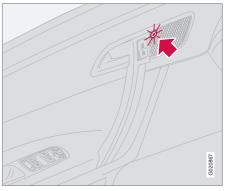
Locking

Opening the doors

When the doors are locked from the inside:

 Pull the handle twice to unlock and open the door.

Lock indicator



A light on the inside of the door in question illuminates for approx. 5 minutes after the car has been locked with the remote control key's lock button, or with the Keyless drive system when the engine is switched off, see page 126.

When the car is locked from the inside the LEDs acknowledge the locking with one long flash. Unlocking from the inside is acknowl-edged by 2 short flashes.

Automatic locking

When the speed of the car exceeds 7 km/h the doors and boot lid are locked automatically.

When the function is activated and the doors have been locked they can be opened in two ways:

- Pull one of the door handles twice

The function can be activated/deactivated by means of personal preferences, see page 78.

Deadlocks*

Deadlocks means that the lock buttons and door handles are mechanically disengaged, which prevents opening from the inside.

The deadlocks are activated with the remote control key and are set after a 10-25 second delay after the doors have been locked.

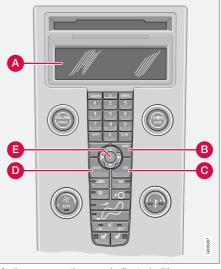
The car can only be unlocked from a deadlock state with the remote control key. The driver's door can also be unlocked with the detachable key blade.

\Lambda WARNING

Do not allow anyone to remain in the car without first deactivating the deadlocks in order to avoid the risk of anyone being locked in.

Temporary deactivation

If someone is going to stay in the car but the doors must be locked from the outside, then the deadlocks function can be temporarily switched off.



Active menu options are indicated with a cross.

A Display

B MENUEXITENTER

B Navigation

Deactivation is carried out as follows:

- Access the menu system under CAR SETTINGS (for a detailed description of the menu system, see page 78).
- 2. Select REDUCED GUARD.
- Select Activate once: The instrument panel display shows the message REDUCED GUARD SEE MANUAL and the deadlocks function is switched off when the car is locked.

or

Select Ask on exit: Each time the key is turned to position 0 the audio system display shows the message Reduced guard ask on exit Press ENTER to reduce guard until engine is started Press EXIT to cancel - select one of the options:

) NOTE

If the car is equipped with an alarm:

- Remember that the car's alarm is armed when the car is locked.
- If any of the doors are opened from the inside then the alarm will be triggered.
- If the deadlocks function shall be switched off: Press ENTER and lock the car. If the car is equipped with an alarm with move-

ment and tilt detectors* then these are switched off at the same time, see page 135.

The next time the remote control key is turned to key position **II** the system is reset to zero and the instrument panel display shows the message **FULL GUARD** at which the deadlocks function and the alarm's movement and tilt detectors* are re-engaged.

or

 If the locking system shall not be changed: Select no options at all and lock the car. Or press EXIT and lock the car.



05

05 Locks and alarm

Alarm*

Alarm system

When the alarm is armed, it continually monitors all alarm inputs.

The alarm is triggered if:

- a door, the bonnet or boot lid is opened
- a non-approved key is used in the ignition or if an attempt is made to force the lock
- a movement is detected in the passenger compartment (if fitted with a movement detector)
- the car is raised or towed away (if fitted with a tilt detector)
- the battery's cable is disconnected
- anyone tries to disconnect the siren.

i note

When the roof is closed, the alarm functions in the same way as when it is open, i.e. movement detected in the passenger compartment triggers an alarm.

NOTE

One of the detectors for the alarm is located under the cup holder in the centre console. This detector is sensitive for metals.

Avoid storing coins, keys or similar metal objects in the centre console's cup holder as such objects could accidentally trigger the alarm.

Alarm indicator



A red LED on the top of the instrument panel indicates the alarm system's status:

- LED not lit the alarm is not armed.
- The LED flashes once every other second – Alarm is armed.

 The LED flashes rapidly after disarming the alarm and until key position II is activated – the alarm has been triggered.

If there is a fault in the alarm system, a message appears on the display. At which point you should contact a workshop - an authorised Volvo workshop is recommended.

I) NOTE

Do not attempt to repair or modify alarm system components. All such attempts could affect the terms of insurance.

Arming the alarm

 Press the remote control key lock button.
 A long flash from the car's direction indicators confirms that the alarm is armed and that the doors are locked.

IMPORTANT

The alarm is fully armed when the car's direction indicators have made one long flash and the LED on the instrument panel flashes once every other second.

Alarm*

Disarming the alarm

 Press the remote control key unlock button. Two short flashes from the car's direction indicators confirm that the alarm is disarmed and that the doors are unlocked.

Automatic re-arming of the alarm

This function prevents the car being left with the alarm disarmed unintentionally.

If the car is unlocked with the remote control key (and the alarm is disarmed) but none of the doors or the boot lid is opened within 2 minutes, then the alarm is automatically rearmed. The car is relocked at the same time.

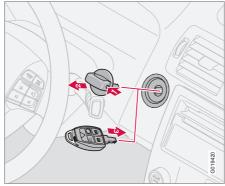
Deactivating a triggered alarm

 Press the unlock button on the remote control key or insert the key in the ignition switch.

Confirmation is given by two short flashes from the direction indicators.

If the remote control key's batteries are discharged then the alarm can be deactivated by unlocking the driver's door manually, inserting the remote control key in the ignition switch and turning it to key position **II**.

Remote control key not working



If the alarm cannot be deactivated with the remote control key, e.g. if the key's battery is discharged - the car can be unlocked, disarmed and the engine started as follows:

- 1. Open the driver's door with the detachable key blade. The alarm is triggered and the siren sounds.
- 2. On cars with the keyless drive system: First remove the knob by pressing in the catch (1) and pulling out (2).
- Insert the remote control key in the ignition switch (3). The alarm is deactivated. The alarm light flashes rapidly until the remote control key is turned to key position II.

Alarm signals

When the alarm is triggered, the following happens:

- A siren sounds for 25 seconds or until the alarm is deactivated. The siren has its own battery and works independently of the car battery.
- The direction indicators flash for 5 minutes or until the alarm is switched off.

Reduced alarm level

To avoid accidental triggering of the alarm e.g. if a dog is left in a locked car or during transport on a car train or car ferry - the movement and tilt detectors should be temporarily deactivated. The procedure is the same as with the temporary disengaging of deadlocks - see page 132

Testing the alarm system

Testing the movement detector* in the passenger compartment

- 1. Open all the windows.
- 2. Engage the alarm function with the remote control key's lock button. Active alarm function is confirmed with a slowly flashing alarm indicator.
- 3. Please wait 30 seconds.

05 Locks and alarm

Alarm*

- 4. Test the movement detector by lifting out a bag from a seat for example.
 - > A siren should sound and all direction indicators should flash.
- 5. Deactivate the alarm by unlocking the car with the remote control key.

Test of alarm for doors

- 1. Engage the alarm function with the remote control key's lock button.
- 2. Please wait 30 seconds.
- Unlock the driver's door with the detachable key blade.
- 05
- 4. Open one of the doors.
 - > A siren should sound and all direction indicators should flash.
- 5. Deactivate the alarm by unlocking the car with the remote control key.

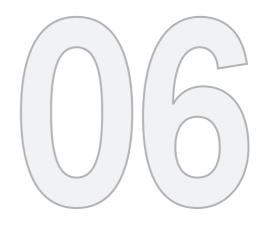
Test of alarm for bonnet

- Sit in the car and deactivate the movement detector, see the previous section "Reduced alarm level".
- Remain sitting in the car and engage the alarm function with the remote control key's lock button.
- 3. Please wait 30 seconds.

- 4. Open the bonnet with the handle under the dashboard.
 - > A siren should sound and all direction indicators should flash.
- 5. Deactivate the alarm by unlocking the car with the remote control key.

General	140
Refuelling	142
Alcolock*	146
Starting the engine	150
Keyless drive*	152
Manual gearbox	153
· · · · · · · · · · · · · · · · · · ·	154
Brake system	157
DSTC – Stability and traction control system*	159
Park Assist*	161
BLIS* – Blind Spot Information System	163
Towing and recovery	166
Start assistance	169
5	170
3 - 1- P	172
	174
	178
Adjusting headlamp pattern	179





STARTING AND DRIVING





General

Economical driving

Driving economically means driving smoothly while thinking ahead and adjusting your driving style and speed to the prevailing conditions.

- Drive in the highest gear possible, adapted to the current traffic situation and road lower engine speeds result in lower fuel consumption.
- Avoid driving with open windows.
- Avoid sudden unnecessary acceleration and heavy braking.
- Remove unnecessary items from the car the greater the load the higher the fuel consumption.
- Use engine braking to slow down, when it can take place without risk to other road users.
- A roof load and ski box increase air resistance, leading to higher fuel consumption
 remove the load carriers when not in use.
- Do not run the engine to operating temperature at idling speed, but rather drive with a light load as soon as possible - a cold engine consumes more fuel than a warm one.

For more information and further advice, see the pages 13 and 278.

📐 WARNING

Never switch off the engine while moving, such as downhill, this deactivates important systems such as the power steering and brake servo.

Driving in water

The car can be driven through water at a maximum depth of 25 cm at a maximum speed of 10 km/h. Extra caution should be exercised when passing through flowing water.

IMPORTANT

Engine damage can occur if water enters the air filter.

In greater depths, water can enter the transmission. This reduces the lubricating ability of the oils and shortens the service life of the systems.

When driving in water, maintain a low speed and do not stop the car. When the water has been passed, depress the brake pedal lightly and check that full brake function is achieved. Water and mud for example can make the brake linings wet resulting in delayed brake function. Clean the electric contacts of the electric engine block heater and trailer coupling after driving in water and mud.

IMPORTANT

Do not let the car stand with water over the sills for any long period of time. This could cause electrical malfunctions.

In the event of stalling in water, do not try to restart. Tow the car from the water.

Engine, gearbox and cooling system

Under special conditions, for example hard driving in hilly terrain and hot climate, there is a risk that the engine and drive system may overheat - in particular with a heavy load.

For supplementary information about overheating when driving with a trailer - see page 170.

- Remove any auxiliary lamps from in front of the grille when driving in hot climates.
- In the event of a risk of overheating a builtin protection function in the gearbox is activated which, amongst other things, illuminates the instrument panel's yellow information lamp and there is a text message displayed there regarding appropriate action - follow the recommendation given.

General

- If the temperature gauge for the engine's cooling system goes into the red zone stop and let the engine idle for a few minutes.
- If the car overheats, the air conditioning may be switched off temporarily.
- Do not turn the engine off immediately you stop after a hard drive.

i note

It is normal for the engine's cooling fan to operate for a while after the engine has been switched off.

Diesel engine

When driving under heavy load in a hot climate, the engine cooling fan can be replaced with one of a greater capacity than the standard model¹. Check with your nearest Volvo dealer regarding the options for your car.

Open boot lid

🚹 WARNING

Do not drive with the boot lid open. Toxic exhaust fumes can be drawn into the car through the cargo area.

Do not overload the battery

The electrical functions in the car load the battery to varying degrees. Avoid having the remote control key in key position **II** when the engine is switched off. Instead use the **I** mode - which uses less power.

Note that the 12 volt outlet in the cargo area supplies power even when the remote control key has been removed from the ignition switch.

Also, be aware of different accessories that load the electrical system. Do not use functions which use a lot of power when the engine is switched off. Examples of such functions are:

- ventilation fan
- windscreen wiper
- audio system (high volume)
- headlamps.

If the battery voltage is low the information display shows the text LOW BATTERY POWER

SAVE MODE. The energy-saving function then shuts down certain functions or reduces certain functions such as the ventilation fan and/or audio system.

 In which case, charge the battery by starting the engine and then running it for at least 15 minutes - battery charging is more effective during driving than running the engine at idling speed while stationary.

Slippery driving conditions

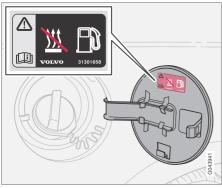
Practise driving on slippery surfaces under controlled conditions to learn how the car reacts.



06 Starting and driving

Refuelling

Opening the fuel filler flap



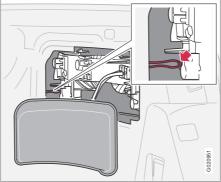
Don not forget to switch off the fuel-driven heater before refuelling!

Open the fuel filler flap with the button on the lighting panel, see page 58. The engine must be switched off before the flap can be opened. The fuel flap is located on the rear right wing.

Closing

Push in the flap until you hear a click.

Opening from the cargo area



Manual opening of the fuel filler flap is easier when the roof is closed, and is used when it is not possible to open it from the passenger compartment.

- 1. Remove the cover over the lamp housing on the right-hand side of the cargo area.
- 2. Pull the wire hanging on the hook.
- 3. When the fuel filler flap has opened, refit the wire and cover.

IMPORTANT

Pull the wire gently - minimal force is required to disengage the hatch lock.

Fuel cap

- 1. Turn the fuel cap until an obvious resistance is felt.
- 2. Turn past the resistance until it comes to a stop.
- 3. Take out the cap.
- 4. Hang up the cap on the inside of the fuel filler flap.

i note

Put the petrol cap back on after refuelling. Turn until one or more clear clicks are heard.

Filling up with fuel

Do not overfill the tank but fill until the pump nozzle cuts out.

) NOTE

Excess fuel in the tank can overflow in hot weather.

Fuel of a lower quality than that specified should not be used as engine power and fuel consumption could be negatively affected, for more information see the following section Fuel.

Refuelling

General information on fuel

🚹 WARNING

Always avoid inhaling fuel vapour and getting fuel splashes in the eyes.

In the event of fuel in the eyes, remove any contact lenses and rinse the eyes in plenty of water for at least 15 minutes and seek medical attention.

Never swallow fuel. Fuels such as petrol, bioethanol and mixtures of them and diesel are highly toxic and could cause permanent injury or be fatal if swallowed. Seek medical attention immediately if fuel has been swallowed.

🚹 WARNING

Fuel which spills on to the ground can be ignited by the exhaust fumes.

Switch off the fuel-driven heater before starting to refuel.

Never carry an activated mobile phone when refuelling. The ring signal could cause spark build-up and ignite petrol fumes, leading to fire and injury.

IMPORTANT

Mixing different types of fuel or the use of fuel not recommended invalidates Volvo's guarantees, and any associated service agreement. This applies to all engines. NOTE: It does not apply to cars with engines that are adapted to run on ethanol fuel (E85).

For information on fuel consumption and tank volume - see page 278.

Catalytic converter

The purpose of the catalytic converter is to purify exhaust gases. It is located in the flow of exhaust gases close to the engine so that it quickly reaches operating temperature. The catalytic converter consists of a monolith (ceramic or metal) with channels. The channel walls are lined with a thin layer of platinum/rhodium/palladium. These metals act as catalysts, i.e. they participate in and accelerate a chemical reaction without being used up themselves.

Lambda-sond[™] oxygen sensor

The Lambda-sond is part of a control system intended to reduce emissions and improve fuel economy.

An oxygen sensor monitors the oxygen content of the exhaust gases leaving the engine. This value is fed into an electronic system that continuously controls the injectors. The ratio of fuel to air directed to the engine is continuously adjusted. These adjustments create optimal conditions for efficient combustion of harmful emissions (hydrocarbons, carbon monoxide and nitrous oxides) using the three-way catalytic converter.

Petrol

Petrol must meet the EN 228 standard. Most engines can be run with octane ratings of 91, 95 and 98 RON.

- 91 RON must not be used for 4-cylinder engines and should only be used in exceptional cases with other engines.
- 95 RON can be used for normal driving.
- 98 RON is recommended for optimum performance and minimum fuel consumption.

When driving in temperatures above +38 °C, fuel with the highest possible octane rating is recommended for optimum performance and fuel economy.

IMPORTANT

- Always refuel with unleaded petrol so as not to damage the catalytic converter.
- Do not use additives not recommended by Volvo.



Refuelling

Diesel

Diesel must meet the EN 590 or JIS K2204 standards.

IMPORTANT

Only ever use fuel that fulfils the European diesel standard.

IMPORTANT

Diesel type fuels which must not be used: special additives, Marine Diesel Fuel, fuel oil, RME¹ (Rape Methyl Ester) and vegetable oil. These fuels do not fulfil the requirements in accordance with Volvo recommendations and generate increased wear and engine damage that is not covered by the Volvo warranty.

Diesel engines are sensitive to contaminants, such as excessively high volumes of sulphur particles for example. Only use diesel fuel from well-known producers. Never use diesel of dubious quality.

At low temperatures (-40 °C to -6 °C), a paraffin precipitate may form in the diesel fuel, which may lead to ignition problems. Special diesel fuel designed for low temperatures around freezing point is available from the major oil companies. This fuel is less viscous at low temperatures and reduces the risk of paraffin precipitate.

IMPORTANT

Use special winter grade fuel during cold months.

The risk of condensation in the fuel tank is reduced if the tank is kept well filled. When refuelling, check that the area around the fuel filler pipe is clean. Avoid spilling fuel onto the paintwork. Wash off any spillage with detergent and water.

IMPORTANT

The sulphur content must be a maximum of 50 ppm.

Empty tank

The design of the fuel system in a diesel engine means that if the vehicle runs out of fuel, the tank may need to be vented in the workshop in order to restart the engine after fuelling.

Once the engine has stopped due to fuel starvation, the fuel system needs a few moments to carry out a check. Do this before starting the engine, once the fuel tank has been filled with diesel:

- Insert the remote control key in the ignition switch and turn to key position II (see page 150).
- 2. Wait approx. 1 minute.
- 3. To start the engine: Depress the brake and/ or clutch pedal, and turn the remote control key to start position **III**.

Draining condensation from the fuel filter

The fuel filter separates condensation from the fuel. Condensation can disrupt engine operation.

The fuel filter must be drained at the intervals specified in the Service and Warranty Booklet or if you suspect that the car has been filled with contaminated fuel.

IMPORTANT

Certain special additives remove the water separation in the fuel filter.

Diesel particle filter (DPF)

Diesel cars may be equipped with a particle filter, which results in more efficient emission control. The particles in the exhaust gases are collected in the filter during normal driving. So-

¹ Diesel fuel may contain a certain amount of RME, but further amounts must not be added.

Refuelling

called "regeneration" is started in order to burn away the particles and empty the filter. This requires the engine to have reached normal operating temperature.

Regeneration of the filter takes place automatically and normally takes 10-20 minutes. It may take a little longer at a low average speed. Fuel consumption may increase slightly during regeneration.

The rear window heating may be activated automatically to increase the load on the engine during regeneration without warning.

Regeneration in cold weather

If the car is frequently driven short distances in cold weather then the engine does not reach normal operating temperature. This means that regeneration of the diesel particle filter does not take place and the filter is not emptied.

When the filter has become

approximately 80% full of particles, the yellow information symbol on the instrument panel illuminates, and the message **SOOT FILTER FULL SEE OWNER MANUAL** is shown on the instrument panel display.

Start regeneration of the filter by driving the car until the engine reaches normal operating temperature, preferably on a main road or motorway. The car should then be driven for approximately 20 minutes more.

) NOTE

A smaller reduction of engine power may be noticed temporarily during regeneration.

When regeneration is complete the message is cleared automatically.

IMPORTANT

If the filter fills up it may be incapable of functioning. Then it can be difficult to start the engine and there is a risk that the filter will have to be replaced.

Use the parking heater* in cold weather so that the engine reaches normal operating temperature more quickly.



06 Starting and driving

Alcolock*

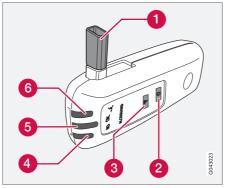
General information on the Alcolock

The function of the Alcolock¹ is to prevent the car from being driven by individuals under the influence of alcohol. Before the engine can be started the driver must take a breath test that verifies that he/she is not under the influence of alcohol. Alcolock calibration takes place in accordance with each market's limit value in force for driving legally.

\Lambda WARNING

The Alcolock is an aid and does not exempt the driver from responsibility. It is always the responsibility of the driver to be sober and to drive the car safely.

Functions



- 1. Nozzle for breath test.
- 2. Switch.
- 3. Transmission button.
- 4. Lamp for battery status.
- 5. Lamp for result of breath test.
- 6. Lamp indicates ready for breath test.

Operation

Battery

Alcolock indicator lamp (4) shows battery status:

Indicator lamp (4)	Battery status
Green flashing	Charging in pro- gress
Green	Fully charged
Yellow	Semi-charged
Red	Discharged - fit the charger in the holder or connect the power supply cable from the glovebox.

NOTE

Store the Alcolock in its holder. This will keep the built-in battery fully charged and the Alcolock is activated automatically when the car is opened.

1 Also called Alcoguard.

Alcolock*

Before starting the engine

The Alcolock is activated automatically and is then ready for use when the car is opened.

- 1. When the indicator lamp (6) is green the Alcolock is ready for use.
- 2. Withdraw the Alcolock from its holder. If the Alcolock is outside the car when it is unlocked then it must first be activated with the switch (2).
- Fold up the nozzle (1), take a deep breath and blow with an even pressure until a "click" is heard after approx. 5 seconds. The result will be one of the alternatives in the following table **Result after breath** test.
- If no message is shown then the transmission to the car may have failed - in which case, press the button (3) to transmit the result to the car manually.
- 5. Fold down the nozzle and refit the Alcolock in its holder.
- Start the engine following an approved breath test within 5 minutes - otherwise it must be repeated.

Result after breath test

Indicator lamp (5) + Display text	Specification
Green lamp + ALCOGUARD APPROVED TEST	Start the engine - no alcohol content measured.
Yellow lamp + ALCOGUARD APPROVED TEST	Engine starting pos- sible - measured alcohol content is above 0.1 promille but below the limit value in force ^A .
Red lamp + DISAP- PROVED TEST WAIT 1 MINUTE	Engine starting not possible - measured alcohol content is above the limit value in force ^A .

A Limits vary between countries, so find out what limits apply. See also the section entitled General information on the Alcolock on page146.

i) NOTE

After a completed period of driving, the engine can be restarted within 30 minutes without a new breath test.

To bear in mind

Before the breath test

In order to obtain correct function and as accurate a measurement result as possible:

- Avoid eating or drinking approx.
 5 minutes before the breath test.
- Avoid excess windscreen washing the alcohol in the washer fluid may result in an incorrect measurement result.

Change of driver

In order to ensure that a new breath test is carried out in the event of a change of driver depress the switch (2) and the send button (3) simultaneously for approx. 3 seconds. At which point the car returns to start inhibition mode and a new approved breath test is required before starting the engine.

Calibration and service

The Alcolock must be checked and calibrated at a workshop² every 12 months.

30 days before recalibration is necessary the display shows **ALCOGUARD CALIBR**. **REQUIRED**. If calibration is not carried out within these 30 days then normal engine starting will be blocked - only starting with the

² An authorised Volvo workshop is recommended.



Alcolock*

Bypass function will then be possible, see page 148 section Emergency situation.

The message can be cleared by pressing the send button (3) once. Otherwise it goes out on its own after approx. 2 minutes but then reappears each time the engine is started - only recalibration at a workshop² can clear the message permanently.

Cold or hot weather

The colder the weather the longer it takes before the Alcolock is ready for use:

Temperature (°C)	Maximum heat- ing time (sec- onds)
+10 to +85	10
-5 to +10	60
-40 to -5	180

At temperatures below -20 °C or above +60 °C the Alcolock requires additional power supply. The display shows **ALCOGUARD INSERT POWER CABLE**. In which case, connect the power supply cable from the glovebox and wait until indicator lamp (6) is green. In extremely cold weather the heating time can be reduced by taking the Alcolock indoors.

Emergency situation

In the event of an emergency situation or the Alcolock is out of order, it is possible to bypass the Alcolock in order to drive the car.

i) NOTE

All Bypass activation is logged and saved in memory, see page 10 in the section, Recording data.

After the Bypass function has been activated the display shows **ALCOGUARD BYPASS ENABLED** the whole time while driving and can only be reset by a workshop².

The Bypass function can be tested without the error message being logged - in which case, carry out all the steps without starting the car. The error message is cleared when the car is locked.

When the Alcolock is installed, either the Bypass or Emergency function is selected as the bypassing option. This setting can be changed afterwards at a workshop².

Activating the Bypass function

 Depress and hold the left-hand stalk switch READ button and the button for hazard warning flashers simultaneously for approx. 5 seconds - the display first shows BYPASS ACTIVATED WAIT 1 MINUTE and then ALCOGUARD BYPASS ENABLED - after which the engine can be started.

This function can be activated several times. The error message shown during driving can only be cleared at a workshop².

Activating the Emergency function

 Depress and hold the left-hand stalk switch **READ** button and the button for hazard warning flashers simultaneously for approx. 5 seconds - the display shows **ALCOGUARD BYPASS ENABLED** and the engine can be started.

This function can be used once, after which a reset must be made at a workshop².

⁰⁶

² An authorised Volvo workshop is recommended.

Alcolock*

Symbols and display messages

In addition to the previously described messages, the combined instrument panel's display can also show the following:

Display text	Meaning/Action
ALCOGUARD RESTART POSSI- BLE	The engine has been switched off for less than 30 minutes - engine starting pos- sible without new test.
ALCOGUARD SERVICE REQUIRED	Contact a work- shop ² .
ALCOGUARD NO SIGNAL	Transmission failed - send manually with button (3) or take a new breath test.
ALCOGUARD INVALID TEST	Test failed - take a new breath test.
ALCOGUARD BLOW LONGER	Blowing too short - blow for longer.
ALCOGUARD BLOW SOFTER	Blowing too hard - blow more gently.

Display text	Meaning/Action
ALCOGUARD BLOW HARDER	Blowing too weak - blow harder.
ALCOGUARD WAIT PREHEAT- ING	Heating not finished - wait for text ALCOGUARD BLOW 5 SEC- ONDS.

Ð

² An authorised Volvo workshop is recommended.



Starting the engine

Before starting the engine

Apply the parking brake.

Note that if the car is equipped with an alcolock then a breath test must first be approved before the engine can be started, see page 146.

Automatic gearbox

Move the gear selector in position P or N.

Manual gearbox

Put the gear lever in neutral and hold the clutch pedal fully depressed. This is particularly important in very cold conditions.

🚹 WARNING

Never remove the remote control key from the ignition switch while driving or when the car is being towed. The steering lock could otherwise be activated, making it impossible to steer the car.

The remote control key must be in key position **II** when the car is being towed.

NOTE

The idling speed can be noticeably higher than normal for certain engine types during cold starting. This is in order that the emissions system can reach normal operating temperature as quickly as possible, which minimises exhaust emissions and protects the environment.

Starting the engine

IMPORTANT

If the engine fails to start after 3 attempts wait for 3 minutes before making a further attempt. Starting capacity increases if the battery is allowed to recover.

Petrol

Turn the remote control key to key position
 III. If the engine does not start within
 5–10 seconds, release the key and try again.

Diesel

- 1. Turn the remote control key to key position **II**.
 - > An indicator symbol in the combined instrument panel shows that engine preheating is underway, see page 51.

2. Turn the ignition key to position **III** when the indicator symbol goes out.

Autostart *

With the autostart function, there is no need to hold the remote control key (or ignition dial, on cars with Keyless Drive - see page 126) in key position **III** until the engine has started.

- Turn the key to key position **III** and release it - the starter motor then works automatically until the engine has started.

I) NOTE

If the diesel engine is started in extreme cold without waiting for engine preheating, then the automatic start sequence can be delayed for a couple of seconds.

Key positions

0 – Locked position



The steering lock is activated when the remote control key is removed from the ignition switch.

Starting the engine

I - Radio position



Steering lock deactivated. Certain functions can be used. The engine's electrical system is not activated.

II - Driving position



The remote control key's position when driving. The whole electrical system is engaged.

III - Start position



The starter motor is activated. The remote control key is released when the engine has started and then springs back to drive position.

A ticking sound can be heard

if the key reaches an intermediate position - in which case, turn the key to position **II** and back to get rid of the sound.

When the steering lock is activated

If the front wheels are positioned so that there is tension in the steering lock then the information display may show a warning message and the car cannot be started. In which case, proceed as follows:

- 1. Remove the remote control key from the ignition switch and turn the steering wheel so that the tension is released.
- 2. Hold the steering wheel in this position. Reinsert the key and make a new attempt to start the car.

🔥 WARNING

Never remove the remote control key from the ignition switch while driving or when the car is being towed. The steering lock would be activated, making it impossible to steer the car.

🚹 WARNING

Always remove the remote control key from the ignition switch when leaving the car, especially if there are children in the car.

Remote control keys and electronic immobiliser

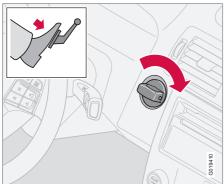
The remote control key must not hang with other keys or metal objects on the same key ring. The electronic immobiliser could be activated accidentally.



06

Keyless drive*

General



The keyless drive system allows the car to be unlocked, driven and locked without the need for a key, see page 126.

The ignition switch ignition dial is used in the same way as the remote control key. One precondition for starting the car is that the car's remote control key is located inside the passenger compartment or the cargo area.

Starting the car

 Depress the clutch pedal (cars with manual gearbox) or brake pedal (cars with automatic gearbox).

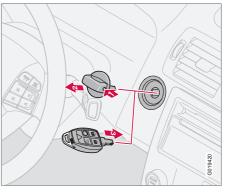
Petrol engine

Press in and turn the ignition dial to key position III.

Diesel engine

- 1. First turn the ignition dial to key position **II** and wait until the diesel indicator symbol in the combined instrument panel goes out, see page 51.
- 2. Following which, turn the ignition dial to position **III.**

Starting with the remote control key

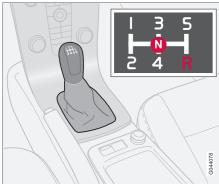


If the remote control key's battery is discharged then the Keyless Drive function does not work. In which case, start the car by using the remote control key as ignition dial.

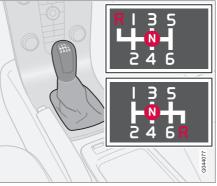
- 1. Press in the catch in the ignition dial.
- 2. Pull the ignition dial out from the ignition switch.
- 3. Insert the remote control key into the ignition switch and start in the same way as with the ignition dial.

Manual gearbox

Gear positions



Gearshift pattern 5-speed gearbox.



Gearshift pattern 6-speed gearbox.

The 6-speed box is available in two versions reverse gear position differs between them. Look at the actual gearshift pattern imprinted on the gear lever.

- Depress the clutch pedal fully during each gear change.
- Take your foot off the clutch pedal between gear changes.

🚹 WARNING

Get into the habit of always applying the parking brake when parking on a slope - an engaged gear is not sufficient to hold the car in all situations.

Reverse gear inhibitor

The reverse gear inhibitor hinders the possibility of mistakenly attempting to engage reverse gear during normal forward travel.

 Start from neutral position N and only engage reverse gear R when the car is stationary.

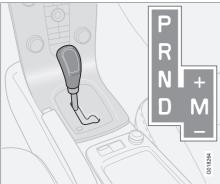
I) NOTE

With the upper variant of the shifting pattern for 6-speed gearbox (see previous illustration) - **first press down** the gear lever in the **N** position in order to engage reverse gear.



Automatic gearbox

Geartronic automatic gear positions



D: Automatic gear positions. **M** (+/–): Manual gear positions.

The information display shows the position of the gear selector using the following indications: P, R, N, D, 1, 2, 3, 4, 5 or 6, see page 49.

P – Parking position

Select position ${\bf P}$ when you wish to start the engine or park the car.



The car must be stationary when position **P** is selected.

NOTE

The brake pedal must be depressed in order to be able to disengage the gear lever from the **P** position.

The gearbox is mechanically blocked when the **P** position is engaged. Always apply the parking brake when parking the car.

🚹 WARNING

Get into the habit of always applying the parking brake when parking on a slope - the automatic transmission's **P** position is not sufficient to hold the car in all situations.

R – Reverse

The car must be stationary when position ${\boldsymbol{\mathsf{R}}}$ is selected.

N – Neutral

No gear is engaged and the engine can be started. Apply the parking brake when the car is stationary with the gear selector in position N.

ΝΟΤΕ

The brake pedal must be depressed in order to be able to disengage the gear lever from the \mathbf{N} position if the car has been stationary for more than 3 seconds.

D – Drive

 ${f D}$ is the normal driving position. The car automatically shifts up and down depending on the level of acceleration and speed. The car must be stationary when the gear selector is moved to position ${f D}$ from position ${f R}$.

Geartronic manual gear positions (+/-)

The driver can also change gear manually using the Geartronic automatic gearbox. The car engine-brakes when the accelerator pedal is released.

Manual gearshift mode is obtained by moving the lever to the side from position **D** to the end position at +/-. The information display shifts the indication from **D** to one of the figures 1 - 6, which is equivalent to the gear that is engaged just then, see page 49.

Move the lever forwards towards + (plus) to change up a gear and release it, the lever returns to its rest position between + and -.

or

• Pull the lever back towards – (minus) to change down a gear and release it.

The manual gearshift mode (+/-) can be selected at any time while driving.

Geartronic automatically shifts down if the driver allows the speed to decrease lower than

06

Automatic gearbox

a level suitable for the selected gear, in order to avoid jerking and stalling.

To return to automatic driving mode:

Move the lever to the side to the end position at D.

Kick-down

When the accelerator pedal is pressed all the way to the floor (beyond the position normally regarded as full acceleration) a lower gear is immediately engaged. This is known as kick-down.

If the accelerator is released from the kickdown position, the gearbox automatically changes up.

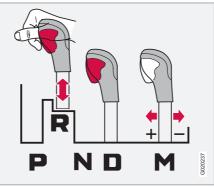
Kick-down is used when maximum acceleration is needed, such as for overtaking.

Safety function

To prevent overrevving the engine, the gearbox control program has a protective downshift inhibitor which prevents the kick-down function.

Geartronic does not permit downshifting/kickdown which would result in an engine speed high enough to damage the engine. Nothing happens if the driver still tries to shift down in this way at high engine speed – the original gear remains engaged. When kick-down is activated the car can change one or more gears at a time depending on engine speed. The car changes up when the engine reaches its maximum speed in order to prevent damage to the engine.

Mechanical gear selector inhibitor



The gear selector can be moved forward and back freely between N and D. Other positions are locked with a latch that is released with the inhibitor button on the gear selector.

With the inhibitor button depressed the lever can be moved forwards or backwards between P, R, N and D.

Automatic gear selector inhibitor

Cars with an automatic gearbox have special safety systems:

Keylock

To remove the remote control key, the gear selector must be in the **P** position. The key is locked in all other positions.

Parking position (P)

Stationary car with engine running:

 Hold your foot on the brake pedal when moving the gear selector to another position.

Electric gear inhibitor – Shiftlock Parking position (P position)

To be able to move the gear selector from the **P** position to other gear positions, the remote control key must be in position **II** and the brake pedal must be depressed.

Shiftlock - Neutral (N position)

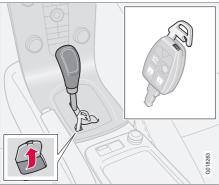
If the gear selector is in the ${\bf N}$ position and the car has been stationary for at least three seconds (irrespective of whether the engine is running) then the gear selector is locked in the ${\bf N}$ position.

To be able to move the gear selector from the \mathbf{N} position to another gear position, the brake pedal must be depressed and the remote control key must be in position **II**.



Automatic gearbox

Disengaging the gear selector inhibitor



Cold start

When starting in low temperatures, the gear changes can sometimes feel hard. This is due to the gearbox oil's viscosity at low temperatures. To reduce engine emissions, the gearbox shifts up later than normal when the engine is started at low temperatures.

i NOTE

Depending on the engine temperature when the engine is started, the idle speed after a cold start may be higher than normal for certain engine types.

In certain cases, it may be necessary to move the car when it is not driveable, for example if the battery is flat. Proceed as follows to move the car:

- 1. There is a small cover behind **P-R-N-D** on the gear selector panel. Open it at the rear edge.
- 2. Fully insert the key blade from the remote control key.
- Hold the key blade down and at the same time move the gear lever out of the P position.

Brake system

Brake servo

If the car is rolling or is being towed with the engine turned off, the brake pedal must be depressed about 5 times harder than when the engine is running. If the brake pedal is depressed when the engine is started, you will feel the pedal drop. This is normal and due to the brake servo becoming active. This may be more noticeable if the car has Emergency Brake Assistance (EBA).

🔥 WARNING

The brake servo only works when the engine is running.

I NOTE

If braking with the engine switched off, press the brake pedal sharply once, not repeatedly.

Brake circuits



This symbol illuminates if a brake circuit is not working.

If a fault should occur in one of the circuits, it is still possible to brake

the car. The brake pedal will travel further and may feel softer than normal. Harder pressure on the pedal is needed to produce the normal braking effect.

Dampness can affect braking characteristics

Brake components become wet when the car is driven in heavy rain, through pools of water or when the car is washed. This may alter brake pad friction characteristics so that there is a delay before braking effect is noticed.

Press the brake pedal lightly from time to time if driving for long stretches in rain or slushy snow, as well as after setting off in very damp or cold weather. This warms up the brake pads and dries off any water. This precaution is also recommended before parking the car for a long period in such weather conditions.

If the brakes are used heavily

When driving in the Alps or other roads with similar characteristics, the car's brakes are heavily loaded even if the brake pedal is not being depressed especially hard.

Because speed is often low, the brakes are not cooled as effectively as when driving on flat roads at higher speed.

So as not to overload the brakes, shift down when driving downhill instead of using the foot brake. Use the same gear driving downhill as you would use driving uphill. This uses engine braking more efficiently so the foot brake is only required for brief periods. Bear in mind that driving with a trailer puts an additional load on the car's brakes.

Anti-lock braking system - ABS



The anti-lock braking system (ABS) prevents the wheels from locking up during braking.

This means the ability to steer is

maintained and it is easier to swerve to avoid a hazard for example.

After the engine has been started, the ABS will perform a brief self-test at a speed of about 20 km/h. This can be felt and heard as pulses in the brake pedal.

To get the most out of the ABS:

- 1. Depress the brake pedal with full force. Pulses will be felt.
- 2. Steer the car in the direction of travel. Do not release the pressure on the pedal.

Practice braking with the ABS system in a traffic-free area and in different weather conditions.



Brake system

Emergency Brake Assistance – EBA

For sudden braking, EBA (Emergency Brake Assist) provides full-strength braking instantaneously. The EBA function senses when heavy braking is underway by registering how quickly the brake pedal is depressed.

Continue braking without easing off on the brake pedal. The function disengages when the pressure on the brake pedal eases.

This function is always active. It cannot be disengaged.

\Lambda WARNING

If the BRAKE and ABS warning symbols illuminate at the same time, there may be a fault in the brake system. If the level in the brake fluid reservoir is normal at this stage, drive carefully to the nearest workshop and have the brake system checked - an authorised Volvo workshop is recommended.

If the brake fluid is under the **MIN** level in the brake fluid reservoir, do not drive further before topping up the brake fluid.

The reason for the loss of brake fluid must be investigated.

i NOTE

When EBA is activated the brake pedal lowers slightly more than usual, depress (hold) the brake pedal as long as necessary. If the brake pedal is released then all braking ceases.

Emergency brake lights and automatic hazard warning flashers

Emergency brake lights are activated to alert vehicles behind about sudden braking. The function means that the brake light flashes instead of - as in normal braking - shining with a constant glow.

Emergency brake lights are activated at speeds above 50 km/h if the ABS system is working and/or in the event of sudden braking. After the car's speed has been slowed below 10 km/h the brake light returns from flashing to the normal constant glow - while at the same time the hazard warning flashers are activated, and they flash until the driver changes engine speed with the accelerator pedal or they are deactivated with their button, see page 69.



DSTC - Stability and traction control system*

General

The stability and traction control system, DSTC (Dynamic Stability and Traction Control) helps the driver to avoid skidding and improves the car's traction.

A pulsing sound may be noticed during braking or acceleration when the system is in action. The car may accelerate slower than expected when the accelerator pedal is depressed.

Active Yaw Control

The function limits the driving and brake force of the wheels individually in order to stabilise the car.

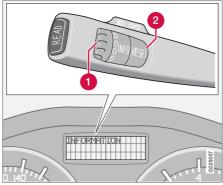
Spin Control

The function prevents the driving wheels from spinning against the road surface during acceleration.

Traction control system

The function is active at low speed and transfers power from the driving wheel that is spinning to the one that is not.

Reduced operation



Controls and information display.

Thumbwheel¹

2 RESET button¹

The stability system is activated automatically each time the car is started.

System operation during skidding and acceleration can be partially deactivated. Operation during skidding is then delayed and so allows more skidding which provides greater freedom for dynamic driving. Traction in deep snow or sand is improved at the same time as acceleration is no longer limited.

Operation

1. Turn the thumbwheel until the DSTC menu appears.

DSTC ON means that the system function is unchanged.

DSTC SPIN CONTROL OFF means that system operation is reduced.

2. Press and hold the **RESET** button until the DSTC menu is changed.

The system remains reduced until the driver reactivates it or until the engine is switched off - after the engine is started the next time DSTC is back in its normal mode again.

🚹 WARNING

Suppressing system function may alter the driving characteristics of the car.

) ΝΟΤΕ

DSTC ON is shown for several seconds on the display each time the engine is started.

¹ No function in cars without trip computer, fuel-driven parking heater as well as stability and traction control system.

⁰⁶



DSTC – Stability and traction control system*

Messages on the information display

TRACTION CONTROL TEMPORARILY OFF means that the system has been temporarily reduced due to excessive brake temperature.

 The function is reactivated automatically when the brakes have cooled.

ANTI-SKID SERVICE REQUIRED system disabled due to a fault.

- Stop the car in a safe place and turn off the engine.
 - > If the message remains when the engine is restarted, drive to a workshop. An authorised Volvo workshop is recommended.

If the symbols $\widehat{1}$ and $\widehat{\textcircled{A}}$ are displayed at the same time:

• Read the message on the information display.

If the symbol 🗟 appears alone then it may appear as follows:

- Flashing light means that the DSTC system is now being activated.
- Constant glow for 2 seconds means system check when the engine is started.
- Constant glow after starting the engine or while driving means that there is a fault in the DSTC system.

Symbols in the combined instrument panel



06

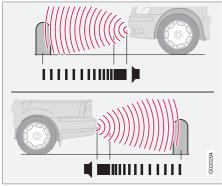
DSTC system



Information

Park Assist*

General information on parking assistance



Parking assistance front and rear.

Parking assistance is used as an aid to parking. A signal indicates the distance to a detected obstacle.

🚹 WARNING

Parking assistance does not relinquish the driver's own responsibility during parking. The sensors have blind spots where obstacles cannot be detected. Be aware of children or animals near the car.

Variants

Parking assistance is available in two variants:

- Rear only.
- Both front and rear.

Function

The frequency of the signal increases the shorter the distance to an obstacle, in front of or behind the car. If the volume of another audio source from the audio system is high, then this is automatically lowered.

The tone becomes constant at a distance of about 30 cm. If there are obstacles within this distance both behind and in front of the car, the signal alternates between left and right-hand speakers.

Rear parking assistance only

The system is automatically engaged when the car is started.

Rear parking assistance is activated when reverse gear is engaged and the message **Park Assist active EXIT to deactivate** is shown on the audio system's display.

If the system is switched off, the display shows **Park Assist deactivated ENTER to activate** as soon as reverse gear is engaged. To change the settings, see page 78.

The distance covered behind the car is about 1.5 metres. The signal comes from the rear loudspeakers.

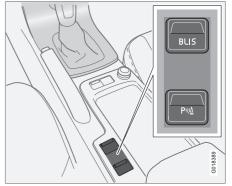
Limitations

The system must be deactivated when reversing with a trailer, or bike carrier on the towbar or similar. Otherwise the trailer or bike carrier would trigger the sensors.

NOTE

Rear parking assistance is deactivated automatically when towing a trailer if a Volvo genuine trailer cable is used.

Parking assistance both front and rear



Button for Off/On (here rear button).

The system is automatically engaged when the car is started and the switch's On/Off lamp is



Park Assist*

illuminated. If parking assistance is switched off with the button, the lamp goes out.

Front

Front parking assistance is active at speeds below 15 km/h. The system is deactivated at higher speeds. When the speed is below 10 km/h the system is reactivated.

The distance covered to the front of the car is about 0.8 metres. The signal for obstacles in front comes from the front loudspeakers.

Limitations

Front parking assistance cannot be combined with extra lights because the sensors are affected by the extra lights.

Rear

06

Rear parking assistance is activated when reverse gear is engaged.

The distance covered to the rear of the car is about 1.5 metres. The signal for obstacles behind comes from the rear loudspeakers.

Limitations

See the previous section Rear parking assistance only.

Fault indicator



If the information symbol illuminates with constant glow and the display shows **PARK ASSIST SERVICE REQUIRED** then parking assistance is disengaged. For

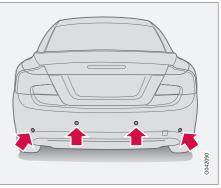
attention, contact a workshop - an authorised Volvo workshop is recommended.

IMPORTANT

In certain conditions the parking assistance system may produce incorrect warning signals that are caused by external sound sources that emit the same ultrasonic frequencies that the system works with.

Examples of such sources include horns, wet tyres on asphalt, pneumatic brakes and exhaust noises from motorcycles etc.

Cleaning the sensors



Parking assistance sensors.

The sensors must be cleaned regularly to ensure that they work properly. Clean them with water and car shampoo.

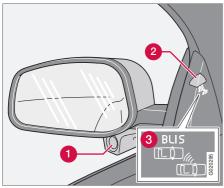
i) NOTE

Dirt, ice and snow covering the sensors may cause incorrect warning signals.



BLIS* – Blind Spot Information System

General



Rearview mirror with BLIS system.

BLIS camera

- 2 Indicator lamp
- BLIS symbol

MARNING

The system is a supplement to, not a replacement for, a safe driving style and use of the rearview mirrors. It can never replace the driver's attention and responsibility. The responsibility for changing lanes safely always rests with the driver.

BLIS is an information system that under certain conditions can help to draw the driver's attention to vehicles moving in the same direction in the so-called "blind spot".

The system is designed to work most effectively when driving in dense traffic on multi-lane highways.

BLIS is based on camera technology. The cameras (1) are located under the door mirrors.

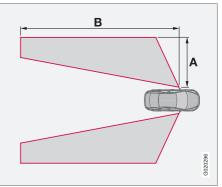
When a camera has detected a vehicle inside the blind spot zone the indicator lamp (2) illuminates with a constant glow.

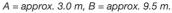
i) NOTE

The lamp illuminates on the side of the car where the system has detected the vehicle. If the car is overtaken on both sides at the same time then both lamps illuminate.

BLIS advises the driver with a message if a fault arises in the system. If for example the system's cameras are obscured then the BLIS indicator lamp flashes and a message is shown in the information display. In such cases, check and clean the lenses. If necessary, the system can be switched off temporarily by pressing the **BLIS** button see page 164.

Blind spots





When BLIS operates

The system operates when the car is driven at a speed above 10 km/h.

Overtaking

The system is designed to react if you overtake another vehicle at a speed of up to 10 km/h faster than the other vehicle.

The system is designed to react if you are overtaken by a vehicle travelling up to 70 km/h faster than your vehicle.



06

BLIS* – Blind Spot Information System

🔥 WARNING

BLIS does not work in sharp bends.

BLIS does not work when the car is reversing.

A wide trailer coupled to the car can conceal other vehicles in adjacent lanes. It can prevent the vehicle in the screened area from being detected by BLIS.

Daylight and darkness

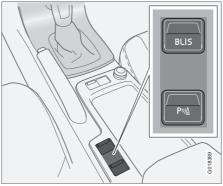
In daylight the system reacts to the shape of the surrounding vehicles. The system is designed to detect motor vehicles such as cars, trucks, buses and motorcycles.

In darkness the system reacts to the headlamps of surrounding vehicles. Vehicles with headlamps that are switched off are not detected by the system. This means for example that the system does not react to a trailer without headlamps which is towed behind a car or truck.

The system does not react to cyclists or moped riders.

The BLIS cameras have limitations similar to those of the human eye, i.e. they do not see as well in e.g. heavy snowfall, strong oncoming light or thick fog.

Activate/deactivate



Button for Off/On (here front button).

BLIS is activated when the engine is started. The indicator lamps in the door panels flash three times when BLIS is activated.

The system can be deactivated/activated by pressing the **BLIS** button.

When BLIS is deactivated the light in the button goes out and a text message is shown on the instrument panel display.

When BLIS is activated the light in the button illuminates, a new text message is shown on the display and the indicator lamps in the door panels flash three times. Press the **READ** button to clear the text message. For more information on messages, see page 54.

BLIS system message

Text on the dis- play	Specification			
BLIS ON	The BLIS system is activated.			
BLIS REDUCED FUNCTION	Reduced function in data transmission between the BLIS system's camera and the car's electri- cal system.			
	The camera resets itself when the data transmission between the BLIS system's camera and the car's electri- cal system returns to normal.			
BLIS CAMERA BLOCKED	One or both cam- eras blocked - clean the lenses.			



BLIS* – Blind Spot Information System

Text on the dis- play	Specification
BLIS SERVICE REQUIRED	Blind spot syst. dis- engaged - contact a workshop.
BLIS OFF	The BLIS system is deactivated.

IMPORTANT

Repair of the BLIS system components must only be performed by a workshop - an authorised Volvo workshop is recommended.

Cleaning

In order to work most effectively the BLIS camera lenses must be clean. The lenses can be cleaned with a soft cloth or damp sponge. Clean the lenses carefully so that they are not scratched.

IMPORTANT

The lenses are electrically heated to melt ice or snow. If necessary, brush snow away from the lenses.

Limitations

In some situations the BLIS indicator lamp may illuminate despite there being no other vehicle within the blind spot.

i) NOTE

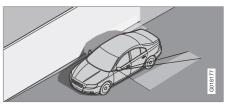
If the BLIS indicator lamp illuminates on isolated occasions despite there being no other vehicle within the blind spot then this does not mean that a fault has arisen in the system.

In the event of a fault in the BLIS system the display shows the text **BLIS SERVICE REQUIRED**.

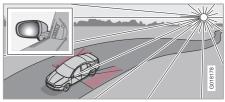
Here are several examples of situations where the BLIS indicator lamp may illuminate even if there is no other vehicle within the blind spot.



Reflection from shiny wet road surface.



Own shadow on large, light, smooth surface, e.g. noise barrier or concrete road surface.



Low sun in the camera.



Towing and recovery

Start assistance

Use a donor battery if the battery is discharged and the engine does not start. Do not tow the car to bump start the engine, see page 169.

IMPORTANT

Bump starting the car can damage the catalytic converter.

Towing

Find out the statutory maximum speed limit for towing before towing begins.

- 1. Turn the remote control key to position **II** and unlock the steering lock so that the car can be steered, see page 151.
- 2. The key must remain in the ignition switch while the car is being towed.
- Keep the towline taut when the towing vehicle reduces speed by holding your foot gently pressed on the brake pedal thereby avoiding unnecessary jerking.
- 4. Be prepared to brake to stop.

🚹 WARNING

- The steering lock must be unlocked before towing - the lock stays in the position it was in when the voltage was disconnected.
- The remote control key must be in key position **II** in position **I** all airbags are deactivated.
- Never remove the key from the ignition switch when the car is being towed.

NOTE

If the car is de-energised then the steering lock must be unlocked using a donor battery before towing can be started.

🚹 WARNING

The brake servo and power steering do not work when the engine is switched off. The brake pedal must be pressed about five times harder than normal, and the steering will be considerably heavier than normal.

Manual gearbox

Prior to towing:

 Move gear lever into neutral and release the parking brake.

Automatic gearbox Geartronic Prior to towing:

Move the gear selector to position N and release the parking brake.

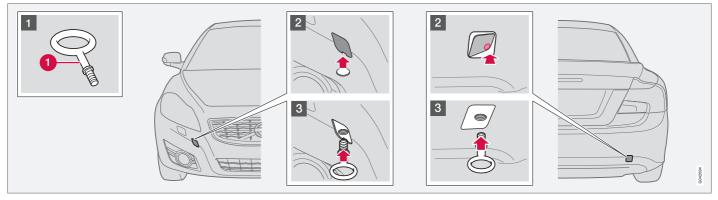
IMPORTANT

Note that the car must always be towed with the wheels rolling forward.

 Cars with automatic gearbox must not be towed at speeds above 80 km/h or further than 80 km.

Towing and recovery

Towing eye



The towing eye is screwed into a threaded socket behind a cover on the right-hand side of the bumper, front or rear.

Fitting the towing eye

- 1 Take out the towing eye (1) that is stored in the puncture repair kit's packaging* behind the ski hatch or together with the spare wheel.
- 2 The cover for the towing eye's attachment point is available in two variants which must be opened in different ways:

- Open the variant with a recess using a coin or similar inserted in the recess, turning it outwards. Then turn out the cover completely and remove it.
- The second variant has a marking along one side or in a corner: Press the marking with a finger and fold out the opposite side/corner at the same time using a coin or similar - the cover turns around its axis and can then be removed.
- 3 Screw the towing eye right in up to its flange. Turn in the towing eye firmly e.g. using the wheel wrench.

After use, unscrew the towing eye and return it to its place.

Finish by refitting the cover onto the bumper.

IMPORTANT

The towing eye is only designed for towing on roads - **not** for pulling the car unstuck or out of a ditch. Call a recovery service for recovery assistance.



Towing and recovery

i NOTE

On certain cars with fitted towbar the towing eye cannot be secured in the rear mounting. In which case, secure the tow rope in the towbar.

For this reason it is advisable to store the towbar's towball in the car, see page 172.

Recovery

Call a recovery service for recovery assistance.

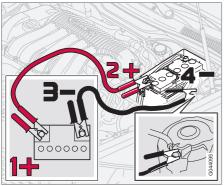
The car must always be towed with the wheels rolling forward.

IMPORTANT

Cars with automatic gearbox must only be towed with drive wheels raised from the road.

Start assistance

Starting with a donor battery



If the battery is flat then the car can be started with current from another battery.

When jump starting the car, the following steps are recommended to avoid short circuits or other damage:

- Turn the remote control key to key position
 0.
- 2. Check that the donor battery has a voltage of 12 V.
- 3. If the donor battery is installed in another car switch off the donor car's engine and make sure that the two cars do not touch each other.

4. Connect one of the red jump lead's clamps to the donor battery's positive terminal (1).

IMPORTANT

Connect the start cable carefully to avoid short circuits with other components in the engine compartment.

- 5. Connect the red jump lead's other clamp onto the car's positive terminal (2).
- Connect one of the black jump lead's clamps to the donor battery's negative terminal (3).
- 7. Fit the other clamp to a grounding point, such as by the left-hand spring strut (4).
- 8. Check that the jump lead clamps are affixed securely so that there are no sparks during the starting procedure.
- Start the engine of the "donor car" and allow it to run a few minutes at a speed slightly higher than idle approx. 1500 rpm.
- 10. Start the engine in the car with the discharged battery.

IMPORTANT

Do not touch the crocodile clips during the start procedure. There is a risk of sparks forming.

- 11. Remove the jump leads in reverse order first the black and then the red.
 - > Make sure that none of the black jump lead's clamps comes into contact with the battery's positive terminal or the clamp connected to the red jump lead.

WARNING

- The battery can generate oxyhydrogen gas, which is highly explosive. A spark can be formed if a jump lead is connected incorrectly, and this can be enough for the battery to explode.
- The battery contains sulphuric acid, which can cause serious burns.
- If sulphuric acid comes into contact with eyes, skin or clothing, flush with large quantities of water. If acid splashes into the eyes - seek medical attention immediately.

For more information on the car's battery - see page 217.



Driving with a trailer

General

Payload depends on the car's kerb weight. The total of the weight of the passengers and all accessories, e.g. towbar, reduces the car's payload by a corresponding weight. For more detailed information on weights, see page 271.

If the towing bracket is fitted by an authorised Volvo workshop, then the car is delivered with the necessary equipment for driving with a trailer.

- The car's towing bracket must be of an approved type.
- If the towbar is retrofitted, check with a Volvo dealer that the car is fully equipped for driving with a trailer.
- Distribute the load on the trailer so that the weight on the towing bracket follows the specified maximum towball load.
- Increase the tyre pressure to the recommended pressure for a full load. For tyre pressure decal location, see page 186.
- Clean the towing bracket regularly and grease the towball¹.
- The engine is loaded more heavily than usual when driving with a trailer.

- Do not tow a heavy trailer when the car is brand new. Please wait until it has been driven at least 1000 km.
- The brakes are loaded much more than usual on long and steep downhill slopes. Downshift to a lower gear and adjust your speed.
- Avoid driving with a trailer on inclines of more than 12%.
- For safety reasons, the maximum permitted speed for the car when coupled with a trailer should not be exceeded. Follow the regulations in force for the permitted speeds and weights.
- Maintain a low speed when driving with a trailer up long, steep ascents.

Trailer weights

For information on Volvo's permitted trailer weights, see page 271.

i) NOTE

The stated maximum permitted trailer weights are those permitted by Volvo. National vehicle regulations can further limit trailer weights and speeds. Towbars can be certified for higher towing weights than the car can actually tow.

Follow the stated recommendations for trailer weights. Otherwise, the car and trailer may be difficult to control in the event of sudden movement and braking.

Manual gearbox

Overheating

When driving with a trailer in hilly terrain in a hot climate there may be a risk of overheating.

 Do not run the engine at higher revolutions than 4500 rpm (diesel engines: 3500 rpm)
 otherwise the oil temperature may become too high.

Diesel engine 5-cyl

- If an engine starts to run too hot, the instrument panel will display a text message which recommends switching to a lower gear - follow the recommendation given.
- In the event of a risk of overheating the optimal speed for the engine is 2300-3000 rpm for optimum circulation of the coolant.

¹ Do not lubricate the towball if using a stabiliser hitch.

Driving with a trailer

Automatic gearbox

Overheating

When driving with a trailer in hilly terrain in a hot climate there may be a risk of overheating.

• An automatic gearbox selects the optimum gear related to load and engine speed.

Steep inclines

 Do not lock the automatic transmission in a higher gear than the engine "can cope with" - it is not always a good idea to drive at a high gear with low engine revolutions.

Parking on a hill

- 1. Depress the foot brake.
- 2. Apply the parking brake.
- 3. Move the gear selector to parking position **P**.
- 4. Release the foot brake.
- Move the gear selector to park position P when parking an automatic car with a hitched trailer. Always use the parking brake.
- Block the wheels with chocks when parking a car with hitched trailer on a hill.

Starting on a hill

1. Depress the foot brake.

- 2. Move the gear selector to driving position **D**.
- 3. Release the parking brake.
- 4. Release the foot brake and start driving off.



Towing equipment*

Towbar

If the car is equipped with a detachable towbar, the installation instructions for the loose section must be followed carefully, see page 174.

If the car is fitted with a Volvo detachable towbar:

- Follow the installation instructions carefully.
- The detachable section must be locked with the key before setting off.
- Check that the indicator window shows green.

Important checks

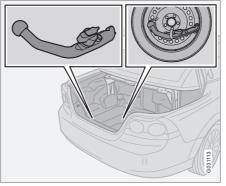
The towbar's towball must be cleaned and greased regularly.

i) NOTE

06

If a towball hitch with vibration damper is used, it is not necessary to grease the towball.

Storing the towbar

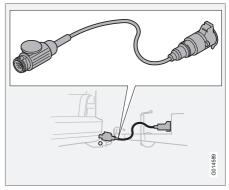


Towbar storage space.

IMPORTANT

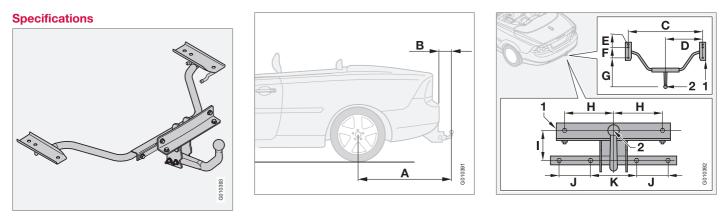
Always remove the towbar after use and store it in the appointed location in the car, firmly fastened with its strap.

Trailer cable



An adapter is required if the car's towing bracket has 13 pin electrics and the trailer has 7 pin electrics. Use an adapter cable approved by Volvo. Make sure the cable does not drag on the ground.

Towing equipment*

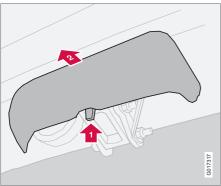


Dimensions for mounting points (mm)

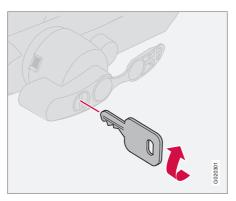
	Α	В	С	D	E	F	G	н		J	К
Fixed or detachable towbar standard	1172	78	964	482	40	141	550	150	113	100	140
1	Side member										
2	Ball centre										



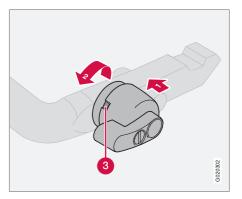
Fitting the towbar



 Remove the protective cover by first pressing in the catch and then pulling the cover straight back 2.

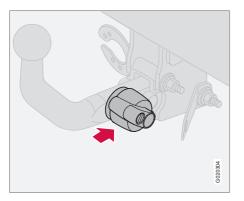


2. Ensure that the mechanism is in the unlocked position by turning the key clock-wise.

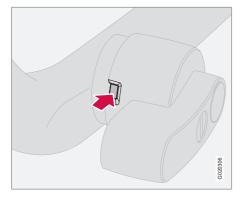


Check that the indicator window (3) shows red. If the window does not show red, press in and turn the locking wheel anti-clockwise until you hear a click.

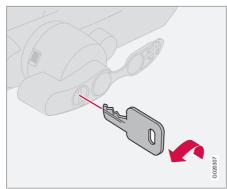
06



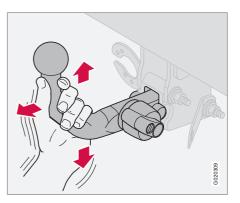
4. Insert the towbar until you hear a click.



5. Check that the indicator window shows green.



6. Turn the key anticlockwise to locked position. Remove the key from the lock.



7. Check that the towbar is secure by pulling it up, down and back.

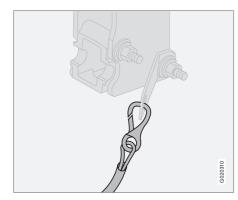
\Lambda WARNING

If the towbar is not fitted correctly then it must be detached and reattached in accordance with the previous instructions.

IMPORTANT

Only grease in the ball for the towing hitch, the remainder of the towbar should be clean and dry.

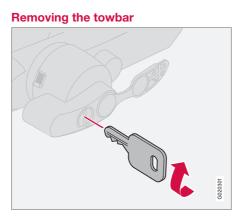




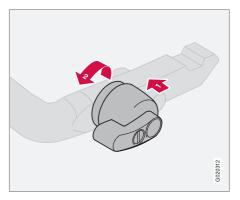
8. Safety cable.

🚹 WARNING

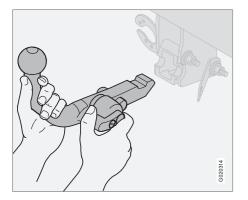
Be sure to attach the trailer's safety cable to the correct place.



1. Insert the key and turn it clockwise to the unlocked position.



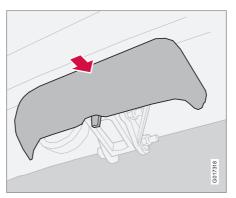
2. Push in the locking wheel 1 and turn it anticlockwise 2 until you hear a click.



 Turn the locking wheel down fully, until it comes to a stop. Hold it in this position while pulling the towbar rearward and upward.

M WARNING

Secure the towbar safely if it is stored in the car, see page 172.



4. Push on the protective cover.

06

1



Loading

General

Payload depends on the car's kerb weight. The total of the weight of the passengers and all accessories reduces the car's payload by a corresponding weight. For more detailed information on weights, see page 271.

🚹 WARNING

The car's driving characteristics change depending on how heavily it is loaded and how the load is distributed.

Loading the cargo area

Stop the engine and apply the parking brake when loading or unloading long objects. The gear lever or gear selector can be knocked out of position by long loads, which could set the car in motion.

Place the load firmly against the backrest in front.

- Put wide loads in the centre.
- Heavy objects should be placed as low as possible.
- Cover sharp edges with something soft to avoid damaging the upholstery.
- Secure all loads to the load retaining eyelets with straps or web lashings.

\Lambda WARNING

A loose object weighing 20 kg can, in a frontal collision at a speed of 50 km/h, carry the impact of an item weighing 1000 kg.

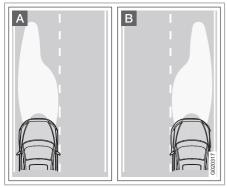
Never load cargo above the backrest.

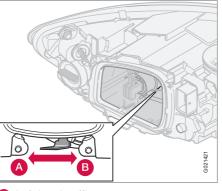
The protection provided by the inflatable curtain may be compromised or eliminated by high loads.

Always secure the load. During heavy braking the load may otherwise shift, causing injury to the car's occupants.

Adjusting headlamp pattern

Correct light pattern for left or righthand traffic





- A Head
 - Headlamp pattern for left-hand traffic.
- B Headlamp pattern for right-hand traffic.

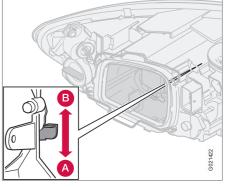
The headlamp pattern can be adjusted using a control in each headlamp housing to avoid dazzling oncoming motorists.

The correct pattern will also better illuminate the verge.

- A Left-hand traffic.
- B Right-hand traffic.

Halogen headlamps

Headlamps with Active Bending Lights



- A Left-hand traffic.
- B Right-hand traffic.

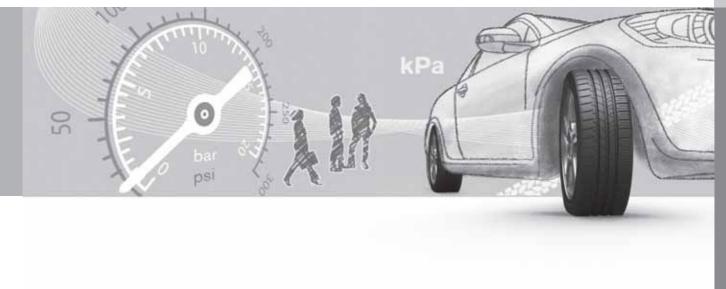
🚹 WARNING

On cars with Xenon headlamps, the replacement of Xenon lamps must be carried out at a workshop - an authorised Volvo workshop is recommended. Working with Xenon lamps demands extreme caution because the headlamp is equipped with a high voltage unit.

General	182
Tyre pressure	186
Warning triangle* and spare wheel *	187
Changing wheels	190
Emergency puncture repair*	192



WHEELS AND TYRES





Driving characteristics and tyres

The tyres greatly affect the car's driving characteristics. The type of tyre, dimensions, tyre pressure and speed rating are important for how the car performs.

When changing tyres, ensure that tyres of the same type and dimensions, and preferably also the same make, are fitted to all four wheels. Follow the recommended tyre pressures specified on the tyre pressure label, see page 186.

Designation of dimensions

The dimensions are stated on all car tyres. Example: 205/55R16 91 W.

205	Tyre width (mm)	
55	Ratio between tyre wall height and tyre width (%)	
R	Radial ply	
16	Rim diameter in inches (")	
91	Tyre load index (in this case 615 kg)	
W	Speed rating for maximum permitted speed (in this case 270 km/h).	

Speed ratings

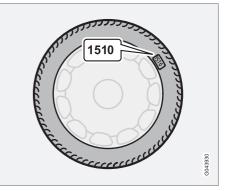
The car is approved as a whole, which means that dimensions and speed ratings must not differ from those specified on the vehicle registration document. The only exception to these conditions is winter tyres (both those with metal studs and those without). If such a tyre is chosen, the car must not be driven faster than the speed rating of the tyre (for example, class Q can be driven at a maximum of 160 km/h).

Remember that traffic regulations determine how fast a car can be driven, not the speed class of the tyres.

Note! Maximum permitted speeds indicated.

- Q 160 km/h (used only on winter tyres)
- T 190 km/h
- H 210 km/h
- V 240 km/h
- W 270 km/h
- Y 300 km/h

New tyres



Tyres are perishable. After a few years they begin to harden at the same time as the friction capacity/characteristics gradually deteriorate. For this reason, aim to get as fresh tyres as possible when you replace them. This is especially important with regard to winter tyres. The last four digits in the sequence mean the week and year of manufacture. This is the tyre's DOT marking (Department of Transportation), and this is stated with four digits, for example 1510. The tyre in the illustration was manufactured to use the tyre's three in week 15 of 2010.

Tyre age

All tyres older than six years should be checked by an expert even if they seem undamaged.

07

The reason for this is that tyres age and decompose, even if they are hardly ever or never used. The function can therefore be affected due to the tyre's constituent materials being broken down. In such a case the tyre should then not be used. This also applies to spare tyres, winter tyres and tyres saved for future use. Examples of external signs which indicate that the tyre is unsuitable for use are cracks or discoloration.

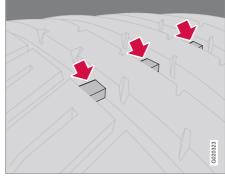
The age of the tyre can be determined by the DOT marking, see previous illustration.

More even wear and maintenance

The correct tyre pressure results in more even wear, see page 186. Driving style, tyre pressure, climate and road condition affect how guickly your tyres age and wear. To avoid differences in tread depth and to prevent wear patterns arising, the front and rear wheels can be switched with each other. A suitable distance for the first change is approx. 5000 km and then at 10 000 km intervals. Volvo recommends that you contact an authorised Volvo workshop for checking if you are uncertain about tread depth. If significant differences in wear (>1 mm difference in tread depth) between tyres have already occurred, the least worn tyres must always be placed on the rear. Understeer is normally easier to correct than oversteer, and leads to the car continuing forwards in a straight line rather than having the rear end skidding to one side, resulting in possible complete loss of control over the car. This is why it is important for the rear wheels never to lose grip before the front wheels.

Wheels should be stored lying down or hanging up, and not standing up.

Tyres with tread wear indicators



Tread wear indicators.

Tread wear indicators are narrow treadless bands across the width of the tread. On the side of the tyre are the letters TWI (Tread Wear Indicator). When the tyre's tread depth is down to 1.6 mm, the tread depth will be level in height with the tread wear indicators. Change to new tyres as soon as possible. Remember that tyres with little tread depth provide very poor grip in rain and snow.

Winter tyres

Volvo recommends winter tyres with specific winter tyre dimensions. Tyre dimensions are dependent on engine variant. When driving on winter tyres, they must be fitted to all four wheels.



Volvo recommends that you consult a Volvo dealer about which wheel rim and tyre types are most suitable.

Studded tyres

Studded winter tyres should be run in gently for 500-1000 km, so that the studs settle properly into the tyres. This gives the tyre, and especially the studs, a longer service life.

i) NOTE

The legal provisions for the use of studded tyres vary from country to country.

Tread depth

Road conditions with ice, slush and low temperatures place considerably higher demands on tyres than summer conditions. It is therefore



recommended not to drive on winter tyres that have a tread depth of less than 4 mm.

Snow chains

Snow chains may only be used on the front wheels. This also applies to all-wheel-drive cars.

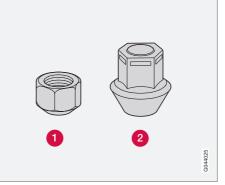
Never drive faster than 50 km/h with snow chains. Avoid driving on bare ground as this wears out both the snow chains and tyres.

\Lambda WARNING

Use Volvo genuine snow chains or equivalent chains designed for the car model, and tyre and rim dimensions. In the event of uncertainty Volvo recommends that you consult an authorised Volvo workshop. The wrong snow chains may cause serious damage to your car and lead to an accident.

Rims and wheel nuts

Only use wheel rims that are tested and approved by Volvo and which are included in the Volvo genuine accessories range.



- Standard wheel nuts.
- 2 Bulge acorn wheel nuts.

There are two types of wheel nut, depending on whether the wheel rims are made of steel or aluminium.

- 1. Tighten the wheel nuts of model (1) to 110 Nm. Tighten the wheel nuts of model (2) to 130 Nm.
- 2. Check the torque with a torque wrench.

IMPORTANT

The wheel nuts (1) should be tightened to 110 Nm and (2) to 130 Nm respectively. Overtightening can damage the nuts and the bolts.

Steel rims - standard wheel nuts (1)

Steel rims are normally mounted with the standard wheel nuts, but the bulge acorn variety may also be used.

🚹 WARNING

Never use standard nuts for aluminium rims. The wheel could come loose.

Aluminium rims – bulge acorn wheel nuts (2)

Only use the bulge acorn variety of nuts with aluminium rims.

) ΝΟΤΕ

These nuts may also be used with steel rims.

Locking wheel nuts

Locking wheel nuts can be used on both aluminium and steel rims. If steel rims with locking wheel nuts are used in combination with wheel covers, the locking wheel nut should be moun-

ted on the bolt nearest the air valve. Otherwise the wheel cover cannot be fitted to the rim.

i note

Tighten the lockable wheel nuts to 110 Nm.

Spare wheel Temporary Spare*

The spare wheel (Temporary spare) is only intended for use temporarily and must be replaced by an ordinary wheel as soon as possible. The car's handling may be altered by the use of the spare wheel. The spare wheel is smaller than the normal wheel. The car's ground clearance is affected accordingly. Pay attention to high kerbs and do not machine wash the car. If the spare wheel is fitted on the front axle, you cannot use snow chains at the same time. On all-wheel drive cars the drive on the rear axle can be disconnected. The spare wheel must not be repaired. The correct tyre pressure for the spare wheel is stated in the tyre pressure table, see page 279.

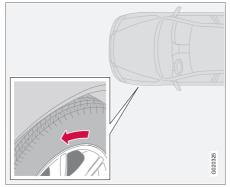
IMPORTANT

Never drive faster than 80 km/h with a spare wheel on the car.

IMPORTANT

The car must never be driven fitted with more than one "Temporary Spare" wheel.

Summer and winter wheels



The arrow shows the tyre's direction of rotation.

When summer and winter wheels are changed, see page 190, the wheels should be marked with which side of the car they were mounted on, for example L for left and R for right. Tyres with a tread pattern which are designed to only turn in one direction have the direction of rotation marked with an arrow.

The tyre must always rotate in the same direction throughout its lifespan. Tyres should only

be switched between front and rear positions, never between left and right-hand sides, or vice versa.

If the tyre is mounted incorrectly, the car's braking characteristics and capacity to force rain, snow and slush out of the way are adversely affected.

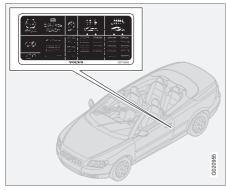
Tyres with the greatest tread depth should always be fitted to the rear of the car (to decrease the risk of skidding).

Volvo recommends that you contact an authorised Volvo workshop for checking if you are uncertain about tread depth.



Tyre pressure

Recommended tyre pressure



The tyre pressure label on the driver's side door pillar shows which pressures the tyres should have at different load and speed conditions.

- Tyre pressure for the car's recommended tyre size
- ECO pressure¹
- Spare tyre pressure (Temporary Spare).

Checking the tyre pressure

Check the tyre pressure regularly.

I) NOTE

Tyre pressure decreases over time, this is a natural phenomenon. Tyre pressure also varies depending on ambient temperature.

Even after several kilometres of driving, the tyres warm up and the pressure increases. So air must not be released if the pressure is checked when the tyres are warm. While the pressure must be increased if it is too low.

Inadequately inflated tyres increase fuel consumption, shorten tyre lifespan and impair the car's roadholding. Driving on tyres with tyre pressure that is too low can also result in the tyres overheating and disintegrating.

For information on the correct tyre pressure, refer to the tyre pressure table. The specified tyre pressures refer to "cold tyres". ("Cold tyres" means the tyres are the same temperature as the ambient temperature.)

Fuel economy, ECO pressure

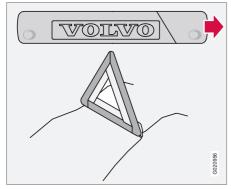
At speeds under 160 km/h the general tyre pressure for maximum load is recommended in order to obtain optimum fuel economy.

Tyre pressure affects travelling comfort, road noise and steering characteristics.

¹ ECO pressure results in improved fuel economy

Warning triangle* and spare wheel *

Warning triangle



Follow the regulations for the use of a warning triangle*. Place the warning triangle in a suitable place with regard to the traffic.

- 1. Undo the case containing the warning triangle, it is secured with Velcro straps. Take the warning triangle from the case.
- 2. Lower the warning triangle's support legs.

Ensure the warning triangle and its case are located in the spare wheel well.

Spare wheel* and jack *

The car's original jack*

The original jack must only be used for changing wheels. The jack's thread should always be well greased. The jack* and wheel wrench* are located in a foam block in the cargo area.

NOTE

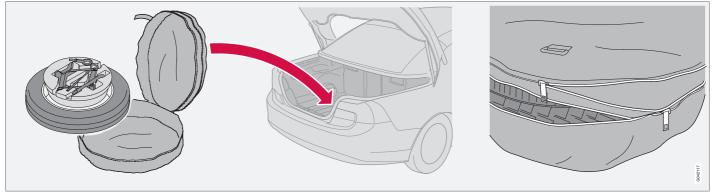
Volvo recommends only using the jack* that belongs to the car model in question, which is indicated on the jack's label.

The label also indicates the jack's maximum lift capacity at a specified minimum lifting height.



Warning triangle* and spare wheel *

Spare wheel and tools



Spare wheel and tools. (Location, tools also for emergency puncture repair kit.)

The spare wheel* is supplied in a tyre bag that is located in the cargo area's spare wheel well. In the centre of the tyre is a black foam block containing jack* and wheel wrench. The tensioning strap for the bag is secured in two lashing eyes on the floor.

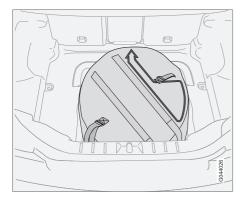
- 1. Undo the two tensioning straps that secure the tyre bag to the floor.
- 2. Unzip the tyre bag and take out the tools.
- 3. Lift the spare wheel from the bag.

Place the damaged wheel in the tyre bag and strap it down with the tensioning straps. Be

sure to follow the instructions on the spare wheel bag when it is refitted.



Warning triangle* and spare wheel *



🔥 WARNING

The spare wheel bag contains impact protection. The spare wheel must be inside the bag when it is stored in the car. Always fit the bag in the spare wheel well, with the text label upwards and so that the arrow is pointing forwards in the car.

Tools - returning into place

Tools and jack* must be returned into place in the correct manner after use.

- For cars equipped with spare wheel, the jack must be cranked so that it fits into the spare wheel.
- For cars equipped with emergency puncture repair kit, the jack must be fully cranked together and returned into the foam block.

IMPORTANT

The tools and jack* must be stored in the intended location in the car's cargo area when not in use.

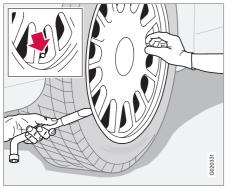
First aid*

A case with first aid equipment is located in the cargo area.



Changing wheels

Removing wheels



Set up the warning triangle if a wheel must be changed at a busy location. Make sure that the car and jack are on a firm horizontal surface.

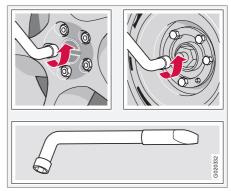
🔥 WARNING

Check that the jack is not damaged, that the threads are thoroughly lubricated and that it is free from dirt.

Volvo recommends only using the jack* that belongs to the car model in question, which is indicated on the jack's label.

The label also indicates the jack's maximum lift capacity at a specified minimum lifting height.

- Take out the spare wheel*, jack* and wheel wrench* that are located under the carpet in the cargo area. If another jack is selected, see page 207.
- 2. Apply the parking brake and engage reverse gear, or position **P** if the car has an automatic gearbox.
- Place chocks in front of and behind the wheels which will remain on the ground. Use heavy wooden blocks or large stones.
- 4. Cars with steel rims have removable wheel covers. Prize off the wheel cover with the end of the wheel wrench, or pull it off by hand.
- 5. Loosen the wheel nuts ½-1 turn anticlockwise with the wheel wrench.



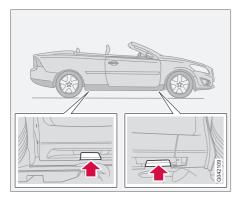
Telescopic wheel wrench.

🚹 WARNING

Never position anything between the ground and the jack, nor between the jack and the car's jacking point.

6. There are two jacking points on each side of the car. There is a recess in the plastic cover at each point. Crank the foot of the jack down so it is pressed squarely on the ground. Check that the jack is seated correctly in the intended jacking point, as illustrated, and that the base is located directly under it.

Changing wheels



IMPORTANT

The ground must be firm, smooth and level.

7. Lift the car so that the wheel is free. Remove the wheel nuts and lift off the wheel.

Fitting the wheel

- 1. Clean the contact surfaces between wheel and hub.
- 2. Put on the wheel. Tighten the wheel nuts.
- 3. Lower the car so that the wheel cannot rotate.
- 4. Tighten the wheel nuts crosswise. It is important that the wheel nuts are tightened properly.
 - Standard wheel nuts tightening torque: 110 Nm
 - Domed wheel nuts tightening torque: 130 Nm

Check the torque with a torque wrench.

5. Put on the wheel cover (steel rim).

🚹 WARNING

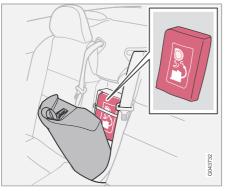
Never crawl under the car when it is raised on the jack.

Passengers must leave the car when it is raised on the jack.

Ensure that passengers wait with the car - or preferably a crash barrier - between them and the road.

Emergency puncture repair*

Emergency puncture repair, general information



The emergency puncture repair kit is used to seal a puncture as well as to check and adjust the tyre pressure. It consists of a compressor and a bottle with sealing fluid. The kit works as a temporary repair. The sealing fluid bottle must be replaced before its expiration date and after use.

The sealing fluid effectively seals tyres punctured in the tread.

NOTE

The emergency puncture repair kit is only intended for sealing tyres with a puncture in the tread.

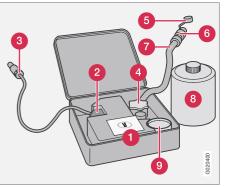
The emergency puncture repair kit has limited capacity to seal tyres which have punctures in the wall. Do not seal tyres with the emergency puncture repair kit if they have larger slits, cracks or similar damage.

12V sockets for the compressor are located by the centre console in the front, by the rear seat and in the cargo area*. Choose the electrical socket that is nearest the punctured tyre.

🚹 WARNING

You should not drive faster than 80 km/h after the emergency tyre repair kit has been used. Volvo recommends that you visit an authorised Volvo workshop for inspection of the sealed tyre (maximum driving distance is 200 km). The staff there can determine whether or not the tyre can be repaired or if it needs to be replaced.

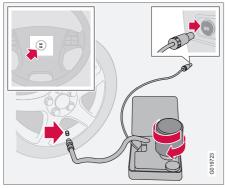
Overview



- 1 Decal, maximum permitted speed
- 2 Switch
- 3 Cable
- 4 Bottle holder (orange cap)
- 6 Protective cap
- 6 Pressure reducing valve
- 7 Air hose
- 8 Sealing fluid bottle
- 9 Pressure gauge

Emergency puncture repair*

Sealing punctured tyres



For information on the function of the parts, see preceding illustration.

- 1. Open the lid of the emergency puncture repair kit.
- 2. Detach the decal for maximum permitted speed and affix it to the steering wheel.

The sealing fluid can irritate the skin. In the case of contact with skin, wash away the fluid with soap and water.

3. Check that the switch is in position **0** and locate the cable and the air hose.

i) NOTE

Do not break the bottle's seal before use. The seal is broken automatically when the bottle is screwed in.

4. Unscrew the orange cap and unscrew the bottle's stopper.

📐 WARNING

Do not unscrew the bottle, it is equipped with a reverse catch to prevent leakage.

- 5. Screw the bottle into its holder.
- Unscrew the wheel's dust cap and screw in the air hose valve connection to the bottom of the thread on the tyre's air valve.

🚹 WARNING

Do not leave children in the car without supervision when the engine is running.

7. Plug the cable into the 12 V socket and start the car.

WARNING

Never stand next to the tyre when the compressor is running. If cracks or unevenness arise then the compressor must be switched off immediately. The journey should not be continued. Contacting an authorised tyre centre is recommended.

i) NOTE

When the compressor starts, the pressure can increase up to 6 bar but the pressure drops after approximately 30 seconds.

8. Flick the switch to position I.

IMPORTANT

Risk of overheating. The compressor must not run for more than 10 minutes.

9. Inflate the tyre for 7 minutes.

🚹 WARNING

If the pressure is below 1.8 bar then the hole in the tyre is too big. The journey should not be continued. Contacting an authorised tyre centre is recommended.



Emergency puncture repair*

- Switch off the compressor to check the pressure on the pressure gauge. Minimum pressure is 1.8 bar and maximum is 3.5 bar.
- 11. Switch off the compressor and unplug the cable from the 12 V socket.
- 12. Detach the hose from the tyre valve and fit the valve cap.
- 13. As soon as possible, drive approximately 3 km at a maximum speed of 80 km/h so that the sealing fluid can seal the tyre.

Rechecking the repair and pressure

- 1. Reconnect the equipment.
- 2. Read the tyre pressure on the pressure gauge.
- 3. If it is below 1.3 bar then the tyre is insufficiently sealed. The journey should not be continued. Contact a tyre centre.
- If the tyre pressure is higher than 1.3 bar, the tyre must be inflated to the pressure specified on the tyre pressure decal. Release air using the pressure reducing valve if the tyre pressure is too high.

WARNING

Do not unscrew the bottle, it is equipped with a reverse catch to prevent leakage.

5. Switch off the compressor. Detach the air hose and cable. Refit the dust cap.

I) NOTE

The sealing fluid bottle and the hose must be replaced after use. Volvo recommends that this replacement is performed by an authorised Volvo workshop.

📐 WARNING

Check the tyre pressure regularly.

- 6. Return the emergency puncture repair kit.
- 7. Volvo recommends that you drive to the nearest authorised Volvo workshop for the replacement/repair of the damaged tyre. Advise the workshop that the tyre contains sealing fluid.

\Lambda WARNING

You should not drive faster than 80 km/h after the emergency tyre repair kit has been used. Volvo recommends that you visit an authorised Volvo workshop for inspection of the sealed tyre (maximum driving distance is 200 km). The staff there can determine whether or not the tyre can be repaired or if it needs to be replaced.

Inflating the tyres

The car's original tyres can be inflated by the compressor.

- The compressor must be switched off. Make sure that the switch is in position 0 and locate the cable and air hose.
- 2. Unscrew the wheel's dust cap and screw in the air hose valve connection to the bottom of the thread on the tyre's air valve.

🚹 WARNING

Inhaling car exhaust fumes could result in danger to life. Never leave the engine running in sealed areas or areas that lack sufficient ventilation.

Emergency puncture repair*

🚹 WARNING

Do not leave children in the car without supervision when the engine is running.

- Connect the cable to one of the car's 12 V sockets and start the car.
- 4. Start the compressor by flicking the switch to position I.

IMPORTANT

Risk of overheating. The compressor must not run for more than 10 minutes.

- Inflate the tyre to the pressure specified on the tyre pressure decal. (Release air using the pressure reducing valve if the tyre pressure is too high.)
- 6. Switch off the compressor. Detach the air hose and cable.
- 7. Refit the dust cap.

Changing the sealing fluid canister

Replace the bottle before the expiration date has passed. Treat the old bottle as environmentally hazardous waste.

🔥 WARNING

The bottle contains 1.2-Ethanol and natural rubber-latex.

Harmful if ingested. Could result in allergic reaction in the event of skin contact.

Avoid contact with the skin and eyes.

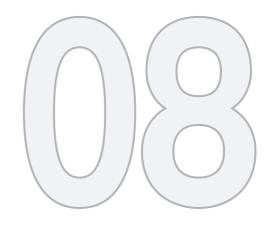
Store out of the reach of children.

NOTE

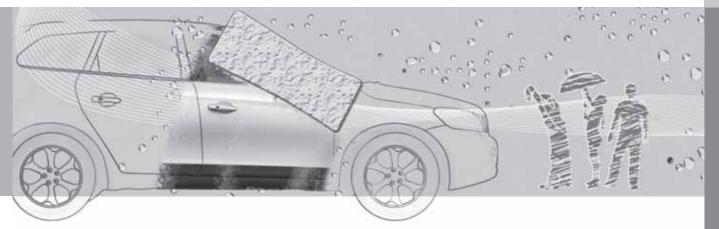
Leave the container at a collection point for storing dangerous waste.

07

Cleaning	198
Touching up paintwork	202
Rustproofing	203



CAR CARE



Washing the car

Wash the car as soon as it becomes dirty. Use car shampoo. Dirt and road salt can lead to corrosion.

IMPORTANT

Avoid rinsing the car with the roof lowered in order to avoid water entering the passenger compartment.

- Do not park the car in direct sunlight. Washing a car with hot paintwork can cause permanent paintwork damage. Wash the car in a car wash with waste water separator.
- Hose down the underbody thoroughly.
- Wash using a sponge, car shampoo and plenty of lukewarm water.
- If the dirt is difficult to dislodge, wash the car using a cold degreasing agent.
- Dry the car using a clean, soft chamois or a water scraper.

Always have the engine cleaned by a workshop. There is a risk of fire if the engine is hot.

IMPORTANT

Dirty headlamps have impaired functionality. Clean them regularly, when refuelling for example.

NOTE

Outside lighting such as headlamps, fog lamps and rear lamps may temporarily have condensation on the inside of the lens. This is a natural phenomenon, all outside lighting is designed to withstand this. Condensation is normally vented out of the lamp when it has been switched on for a time.

Cleaning the wiper blades

Asphalt, dust and salt residue on wiper blades, as well as insects, ice etc. on the windscreen, impair the service life of wiper blades.

I NOTE

Wash the wiper blades and windscreen regularly with lukewarm soap solution or car shampoo.

Do not use any strong solvents.

Removing bird droppings

Wash away bird droppings from the paintwork as soon as possible. Bird droppings contain chemicals that affect and discolour paintwork very quickly. This discoloration can only be removed by a specialist.

Chromed wheels

IMPORTANT

Rim cleaning agents can cause stains on chrome-plated wheels. Wash using a sponge, car shampoo and plenty of lukewarm water.

Automatic car washes

An automatic car wash is a simple and quick way of washing the car, but it can never replace a proper handwashing. The brushes of an automatic car wash cannot reach everywhere.

IMPORTANT

The roof must be closed for automatic car washes.

The antenna by the boot lid should be unscrewed before automatic car washing.

IMPORTANT

Washing by hand is gentler to the paintwork than an automatic car wash. Paintwork is also more sensitive when it is new. For this reason, handwashing is recommended during the first few months with a new car.

High-pressure washing

When using high-pressure washing, use sweeping movements and make sure that the nozzle does not come closer than 30 cm to the surface of the car (the distance applies to all exterior parts).

IMPORTANT

Rinse the entire car to remove loose dirt. When using a pressure washer: Make sure that the nozzle of the pressure washer is not closer than 30 cm to the bodywork. Do not spray directly onto the locks.

Testing the brakes

🔥 WARNING

Always test the brakes after washing the car, including the parking brake, to ensure that moisture and corrosion do not attack the brake linings and reduce braking performance.

Lightly depress the brake pedal now and then when driving long distances in rain or slush. This heats and dries the brake pads. Do the same thing after starting in very damp or cold weather.

Exterior plastic, rubber and trim components

A special cleaning agent available from Volvo dealers is recommended for the cleaning and care of coloured plastic parts, rubber and trim components (such as glossy trim mouldings). When using such a cleaning agent the instructions must be followed carefully.

IMPORTANT

Avoid waxing and polishing on plastic and rubber.

When using degreasant on plastic and rubber, only rub with light pressure if it is necessary. Use a soft washing sponge.

Polishing glossy trim mouldings could wear away or damage the glossy surface.

Polishing agent that contains abrasive must not be used.

Electrically operated roof

If the roof is wet when opened then water will run into the passenger compartment. For this reason, wait until the water has run off before opening the roof.

Hatch cover

The hatch cover, see page 103 is sensitive to water and should therefore be dried with a cloth if it becomes wet. Clean with a slightly dampened rag.

Polishing and waxing

Polish and wax the car if the paintwork is dull or to give the paintwork extra protection.

The car does not need to be polished until it is at least one year old. However, the car can be waxed before this time. Do not polish or wax the car in direct sunlight.

Wash and dry the car thoroughly before you begin polishing or waxing. Clean off asphalt and tar stains using tar remover or white spirit. More stubborn stains can be removed using fine rubbing paste designed for car paintwork.

Polish first with a polish and then wax with liquid or solid wax. Follow the instructions on the packaging carefully. Many preparations contain both polish and wax.

IMPORTANT

Only paint treatment recommended by Volvo should be used. Other treatment such as preserving, sealing, protection, lustre sealing or similar could damage the paintwork. Paintwork damage caused by such treatments is not covered by Volvo warranty.

Water-repellent coating*

Never use products such as car wax, degreaser or similar on glass surfaces as this could ruin their water-repellent properties.

Take care when cleaning so as not to damage the glass surface.

To avoid damaging glass surfaces when removing ice – only use plastic ice scrapers.

There is natural wear of the water-repellent coating.

i note

Treatment with a special finishing agent available from Volvo dealers is recommended in order to maintain the waterrepellent properties. This should be used first after three years and then each year.

Cleaning the interior

Only use cleaning agents and car care products recommended by Volvo. Clean regularly and follow the instructions included with the car care product.

Vacuuming is important prior to using cleaning agents.

Carpets and cargo area

Remove inlaid carpets for separate cleaning of the floor carpet and the inlaid carpets. Use a vacuum cleaner to remove dust and dirt.

Each inlay mat is secured with pins.

- Take hold of the inlay mat at each pin and lift the mat straight up.

Fit the inlay mat in place by pressing it in at each pin.

Before setting off check that the inlaid mat in the driver area is firmly affixed and secured in the pins in order to avoid getting caught adjacent to and under the pedals.

A special textile cleaner is recommended for stains on the floor mat after vacuuming. Floor mats should be cleaned with agents recommended by your Volvo dealer!

Treatment of stains on textile upholstery and headliner

A special fabric cleaning agent, available from authorised Volvo dealers, is recommended to avoid impairing the fire retardant qualities of the upholstery.

IMPORTANT

Sharp objects and Velcro may damage the fabric upholstery.

Treatment of stains on leather upholstery and leather on the top of the instrument panel*

Volvo's leather upholstery is chromium-free and is treated to preserve its original appearance.

Leather upholstery ages and acquires a beautiful patina over time. The leather is refined and processed so that it retains its natural characteristics. It is given a protective coating, but regular cleaning is required in order to maintain both characteristics and appearance. Volvo offers a comprehensive product for the cleaning and treatment of leather upholstery which, when used in accordance with the instructions, preserves the leather's protective coating. After a period of use the natural appearance of the leather will nevertheless emerge, depending more or less on the surface texture of the leather. This is a natural maturing of the leather and shows that it is a natural product.

To achieve best results Volvo recommends cleaning and the application of protective cream once to four times per year (or more if

necessary). The Volvo Leather Care kit is available from your Volvo dealer.

IMPORTANT

- Certain items of coloured clothing (for example, jeans and suede garments) may stain the upholstery.
- Never use strong solvents. Such products may damage fabric, vinyl and leather upholstery.

Washing instructions for leather upholstery and leather on the top of the instrument panel*

- 1. Pour the leather cleaner on the dampened sponge and squeeze out a strong foam.
- 2. Work the dirt away with gentle circular movements.
- 3. Dab accurately with the sponge on the stains. Allow the sponge to absorb the stain. Do not rub.
- 4. Wipe off with soft paper or a cloth and allow the leather to dry completely.

Protective treatment of leather upholstery and leather on the top of the instrument panel*

Vacuuming is important prior to using leather care agents.

- 1. Pour a small amount of the protective cream on the felted cloth and massage in a thin layer of cream with gentle circular movements on the leather.
- 2. Allow the leather to dry for 20 minutes before use.

The leather has now been given improved protection against stains and improved UV protection.

IMPORTANT

Sharp objects may damage the leather, (e.g. rings).

Washing instructions for the leather steering wheel

- Remove dirt and dust with a soft pre-moistened sponge and neutral soap.
- Leather needs to breathe. Never cover the leather steering wheel with protective plastic.
- Use natural oils. Volvo's leather care agents are recommended for best results.

If the steering wheel has stains:

Group 1 (ink, wine, coffee, milk, sweat and blood)

 Use a soft cloth or sponge. Mix a 5% ammonia solution. (For blood stains, use a solution of 2 dl water and 25g salt.)

Group 2 (fats, oils, sauces and chocolate)

- 1. Same procedure as group I.
- 2. Polish with an absorbent paper or cloth.

Group 3 (dry dirt, dust)

- 1. Use a soft brush to remove the dirt.
- 2. Same procedure as group I.

Treating stains on interior plastic, metal and wood parts

A special cleaning agent, available from Volvo dealers, is recommended for cleaning interior parts and surfaces. Do not scrape or rub stains. Never use strong stain removers.

Cleaning seatbelts

Use water and a synthetic detergent. A special textile cleaning agent is available from your Volvo dealer. Make sure the seatbelt is dry before allowing it to retract.

Touching up paintwork

Paintwork

Paint is an important part of the car's rustproofing and should therefore be checked regularly. To avoid the onset of rust, damaged paintwork should be rectified immediately. The most common types of paintwork damage are stone chips, scratches, and marks on the edges of wings and doors.

Colour code

Volvo	VOLVO CAR CORPORATION	
	0	G044980

Data plate.

1 Code for car colour

It is important that the correct colour is used. For product decal location, see page 268.

Stone chips and scratches



Before touching up paintwork, the car must be clean and dry and at a temperature above $15 \, {}^{\circ}\text{C}.$

Materials

- Primer in a can
- Spray can or touch-up pen¹
- Masking tape.

Minor stone chips and scratches

If the stone chip has not penetrated to the bare metal and there is an undamaged colour coat, you can paint straight after cleaning the damaged area.

If the stone chip has penetrated to the bare metal

- 1. Apply a piece of masking tape over the damaged surface. Then remove the tape to remove any loose paint.
- 2. Stir the primer well and apply using a fine brush or a matchstick. Apply paint using a brush once the primer is dry.
- 3. For scratches, proceed as above, but mask around the damaged area to protect the undamaged paintwork.
- 4. After a few days, polish the touched-up areas. Use a soft rag and a small amount of lapping paste.

¹ Follow the instructions contained in the touch-up pen's packaging.

Rustproofing

Inspection and maintenance

Your car has already received a thorough and complete rustproofing at the factory. Parts of the body are made of galvanised sheet metal. The underbody is protected by a wear-resistant anti-corrosion compound. A thin, penetrating rustproofing fluid was sprayed into the members, cavities and closed sections.

Maintain the car's rustproofing.

- Keep the car clean. Hose down the underbody. If using a pressure washer, keep the nozzle at least 30 cm from the painted surfaces.
- Regularly check and touch-up the rustproofing treatment as necessary.

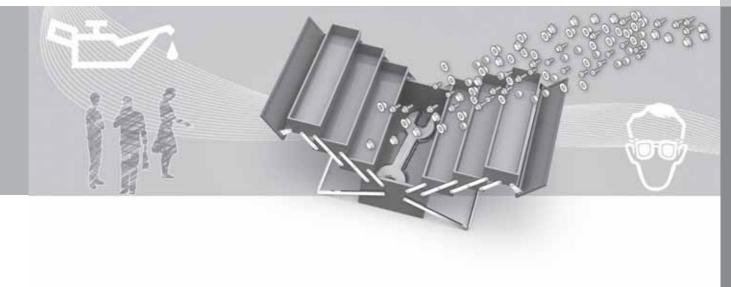
The car's rustproofing does not normally require treatment for approximately 12 years. After this period, it should be treated at threeyear intervals. If the car needs further treatment, Volvo recommends that you engage an authorised Volvo workshop for assistance.

Volvo service	206
Self-maintenance	207 // (
Bonnet and engine compartment	208
Oils and fluids	
Wiper blades	216
Battery	217
Replacing bulbs	
Fuses	



(

MAINTENANCE AND SERVICE





Volvo service

Volvo service programme

Before the car left the factory, it was thoroughly test driven. It was checked again in accordance with Volvo Car Corporation regulations before it was handed over to you.

To keep your Volvo as safe and reliable as possible, follow the Volvo service programme specified in the Service and Warranty Booklet. Volvo also recommends that you engage an authorised Volvo workshop to perform the service and maintenance work. Volvo workshops have the personnel, special tools and service literature to guarantee the highest quality of service.

IMPORTANT

For the Volvo warranty to apply, check and follow the instructions in the Service and Warranty Booklet.

Special service measures

Certain service measures which affect the car's electrical system can only be performed using electronic equipment specially developed for your car. For this reason, Volvo recommends that you always contact an authorised Volvo workshop before beginning or performing service work that affects the electrical system.

Self-maintenance

Before starting work on the car

Battery

Check that the battery cables are correctly connected and tightened.

Never disconnect the battery when the engine is running (e.g. if replacing the battery).

Never use a quick charger to charge the battery. The battery cables must be disconnected when charging the battery.

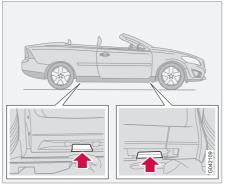
The battery contains acid that is both corrosive and toxic. It is therefore important to handle the battery in an environmentally correct manner. Let your Volvo dealer assist you.

\Lambda WARNING

The ignition system has very high voltage and output. The voltage in the ignition system is highly dangerous. The ignition must therefore always be switched off for work in the engine compartment.

Do not touch the spark plugs or ignition coils when the ignition is on or the engine is hot.

Raising the car



NOTE

Volvo recommends only using the jack that belongs to the car model in question. If a jack is selected other than the one recommended by Volvo, follow the instructions for use supplied with the equipment.

If the car is raised with a workshop jack; position the jack against the front edge on the subframe.

Do not damage the splashguard under the engine. Ensure that the jack is positioned so that the car cannot slide off the jack. Always use axle stands or similar. If you raise the car using a two-pillar workshop lift, ensure that the front and rear lift arms are fixed under the lifting points. See preceding illustration.

Check regularly

Check the following at regular intervals, for example, when refuelling:

- Coolant The level must be between the **MIN** and **MAX** marks on the expansion tank.
- Engine oil The level must be between the **MIN** and **MAX** marks.
- Power steering fluid The level must be between the **MIN** and **MAX** marks.
- Washer fluid The reservoir should be well filled. Fill washer fluid with antifreeze at temperatures around freezing point.
- Brake and clutch fluid The level must be between the MIN and MAX marks.

🚹 WARNING

Remember that the radiator fan (located at the front of the engine compartment, behind the radiator) may start automatically some after the engine has been switched off.

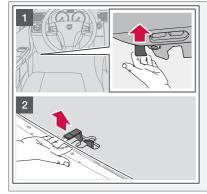
Always have the engine cleaned by a workshop. There is a risk of fire if the engine is hot.

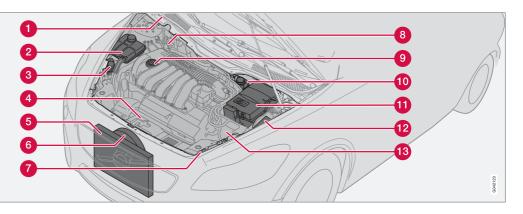
09



Bonnet and engine compartment

Opening the bonnet





The illustration shows a left-hand drive car.

- 1. Pull the handle on the far left under the instrument panel. (In right-hand drive cars the handle is on the far right.) You will hear when the catch releases.
- 2. Insert your hand under the centre of the front edge of the bonnet and press the safety catch to the right.
- 3. Open the bonnet.

<u> M</u>WARNING

Check that the bonnet locks properly when closed.

Engine compartment

- Washer fluid reservoir (4-cyl.)
- **2** Coolant expansion tank
- **3** Reservoir for the power steering fluid (concealed behind the headlamp)

- 4 Dipstick¹ for engine oil²
- 6 Radiator
- 6 Radiator fan
- Washer fluid reservoir (5-cyl.)
- 8 Brake and clutch fluid reservoir (right-hand drive)
- 9 Filling the engine oil²

¹ Engines with electronic oil level sensor have no dipstick (5-cyl. diesel).

² The location varies depending on engine alternative.



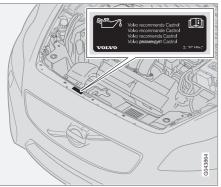
- Brake and clutch fluid reservoir (left-hand drive)
- 1 Battery
- 12 Relay and fuse box
- (13) Air filter²

² The location varies depending on engine alternative.



Oils and fluids

Checking the engine oil



Volvo recommends Castrol oil products.

IMPORTANT

Always use oil of the prescribed grade. Check the oil level frequently and change the oil regularly. The engine will be damaged if lower grade oil is used or if the car is driven with the oil level too low.

When driving under adverse conditions, see page 274.

IMPORTANT

In order to fulfil the requirements for the engine's service intervals all engines are filled with a specially adapted synthetic engine oil at the factory. The choice of oil has been made very carefully with regard to service life, starting characteristics, fuel consumption and environmental impact.

An approved engine oil must be used in order that the recommended service intervals can be applied. Only use a prescribed grade of oil for both filling and oil change, otherwise you will risk affecting service life, starting characteristics, fuel consumption and environmental impact.

Volvo Car Corporation disclaims all warranty liability if engine oil of the prescribed grade and viscosity is not used.

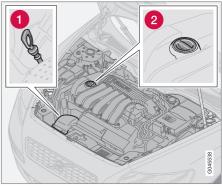
Volvo recommends that oil changes are carried out at an authorised Volvo workshop.

Volvo uses different systems for warning of low/high oil level or low/high oil pressure. Certain variants have an oil pressure sensor, and then the lamp for oil pressure is used. Other variants have an oil level sensor, and then the driver is informed via the warning symbol in the centre of the instrument unit as well as by display texts. Certain models have both variants. Contact a Volvo dealer for more information. Change the engine oil and oil filter in accordance with the intervals specified in the Service and Warranty Booklet.

Using oil of a higher than specified grade is permitted. If the car is driven in adverse conditions, Volvo recommends using an oil of a higher grade, see page 274.

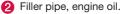
For capacities, see page 275 and onwards.

Engine with oil dipstick¹



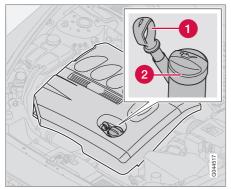
Petrol engine.

Dipstick, petrol engines.



¹ Only applies to petrol and 4-cyl. diesel.

Oils and fluids

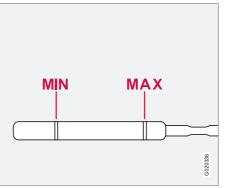


Diesel engine.

- Dipstick, 4-cyl diesel engines.
- Piller pipe, engine oil.

Checking the oil level in a new car is especially important before the first scheduled oil change.

Volvo recommends checking the oil level every 2 500 km. The most accurate measurements are made on a cold engine before starting. The measurement will be inaccurate if taken immediately after the engine is switched off. The dipstick will indicate that the level is too low because the oil has not had time to flow down into the oil sump.



The oil level must be within the area marked on the dipstick.

Measurement and filling if required

- Ensure that the car is level. After switching off the engine it is important to wait
 5 minutes to allow the oil time to run back to the sump.
- 2. Pull up and wipe the dipstick.
- 3. Re-insert the dipstick.
- 4. Pull it out and check the level.
- 5. If the level is close to **MIN** then 0.5 litres should be added. If the level is significantly

below, then an additional amount is required.

 If required, check the level again, do it after driving a short distance. Then repeat steps 1 - 4.

Never fill above the **MAX** mark. The level should never be above **MAX** or below **MIN** as this could lead to engine damage.

🚹 WARNING

Do not spill oil onto the hot exhaust manifold due to the risk of fire.

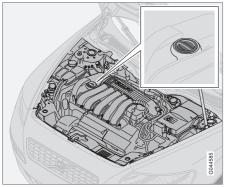
09

(H)



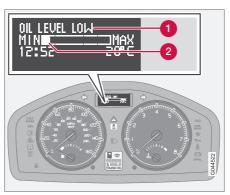
Oils and fluids

For engines with electronic oil level sensor²



Filler pipe.3

You do not need to take action with respect to the engine oil level before a message is shown in the display, see the illustration below.



Message and graph in the display.

- Message
- 2 Engine oil level

The oil level is checked using the electronic oil level gauge with the thumbwheel when the engine is switched off, see page 62.

🔨 WARNING

If the message **Oil service required** is shown, visit a workshop. The oil level may be too high.

IMPORTANT

In the event of the message **Oil level low**, **Fill oil**, only fill with 0.5 litres.

i) NOTE

The oil level is only detected by the system during driving. The system cannot directly detect changes when the oil is filled or drained. The car must be driven about 30 km before the oil level display is correct.

🚹 WARNING

Do not fill more oil if filling level (3) or (4) appears as shown in the illustration below. The level must never be above **MAX** or below **MIN**, as this could lead to engine damage.

🔥 WARNING

Do not spill oil onto the hot exhaust manifold due to the risk of fire.

² Only applies to 5-cyl. diesel.

³ Engines with electronic oil level sensor have no dipstick (5-cyl. diesel).

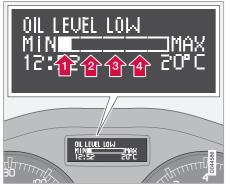
Oils and fluids

09

Measuring the oil level

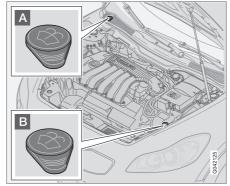
If the oil level needs to be checked then it should be carried out in accordance with the sequence below.

- 1. Activate key position II, see page 150.
- Rotate the thumbwheel on the left-hand stalk switch to position Engine oil level Please wait....
 - > You will then see information displayed about the engine oil level.



The figures 1-4 represent filling level. Do not fill more oil if filling level (3) or (4) is shown. Recommended filling level is 4.

Washer fluid, topping up



The windscreen and headlamp washers share a common reservoir.

For capacities, see the table Fluids on page 276.

A Filler cap on 4-cylinder engines and diesel.

B Filler cap on 5-cylinder engines.

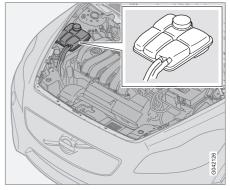
Add washer fluid with antifreeze in the winter so that the fluid does not freeze in the pump, reservoir and hoses.

ΝΟΤΕ

Mix concentrated washer fluid with water **before** filling.

TIP! Clean the wiper blades when topping up washer fluid.

Checking and topping up the coolant



When topping up the coolant, follow the instructions on the packaging. It is important that the mixture of coolant concentrate and water is correct for the prevailing weather conditions. Never top up with water only. The risk of freezing increases with both too little and too much coolant concentrate.



Oils and fluids

IMPORTANT

- A high content of chlorine, chlorides and other salts may cause corrosion in the cooling system.
- Always use coolant with anti-corrosion agent as recommended by Volvo.
- Ensure that the coolant mixture is 50% water and 50% coolant.
- Mix the coolant with approved quality tap water. In the event of any doubt about water quality, used ready-mixed coolant in accordance with Volvo recommendations.
- When changing coolant/replacing cooling system components, flush the cooling system clean with approved quality tap water or flush with ready-mixed coolant.
- The engine must only be run with a wellfilled cooling system. Otherwise, temperatures that are too high may occur resulting in the risk of damage (cracks) in the cylinder head.

For capacities and for standards regarding water quality, see page 276.

Check the coolant regularly

The level must lie between the **MIN** and **MAX** marks on the expansion tank. If the system is not filled sufficiently, high local temperatures could occur, causing a risk of damage (cracks) to the cylinder head. Top up the coolant when the level falls to the **MIN** mark.

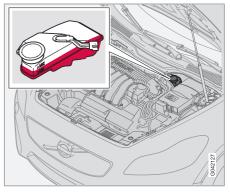
🚹 WARNING

Coolant can be very hot. If the coolant requires topping up when the engine is at operating temperature, unscrew the expansion tank cap slowly to gently release the overpressure.

i) NOTE

The engine must only be run with a wellfilled cooling system. Otherwise, temperatures that are too high may occur resulting in the risk of damage (cracks) in the cylinder head.

Checking and topping up the brake and clutch fluid



Brake and clutch fluid have a common reservoir⁴. The fluid level must be between the **MIN** and **MAX** marks. Check the level regularly. Change the brake fluid every other year or at every other regular service.

For capacities and recommended fluid grade, see the table Fluids on page 276.

The fluid should be changed annually on cars driven in conditions requiring hard, frequent braking, such as driving in mountains or tropical climates with high humidity.

⁴ Location dependent on whether car is left or right-hand drive.



09

Oils and fluids

🔥 WARNING

If the brake fluid is under the **MIN** level in the brake fluid reservoir, do not drive further before topping up the brake fluid.

The reason for the loss of brake fluid must be investigated.

Checking and topping up the power steering fluid

i NOTE

Check the level frequently.

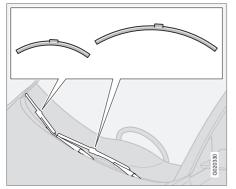
The fluid does not require changing. For capacities and recommended fluid grade, see page 276.

If a fault should arise in the power steering system or if the car is without power and must be towed, it can still be steered. However, the steering will be much heavier than normal and it will require more effort to turn the steering wheel.



Wiper blades

Wiper blades



i) NOTE

The wiper blades are different lengths. The blade on the driver's side is longer than on the other side.

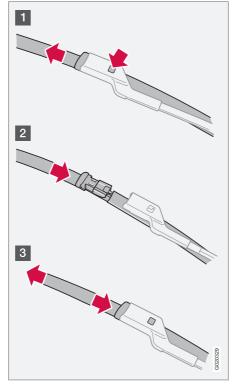
Cleaning

For cleaning wiper blades and windscreen, see page 198.

IMPORTANT

Check the wiper blades regularly. Neglected maintenance shortens the service life of the wiper blades.

Replacing the wiper blades, windscreen



- 1. Lift up the wiper arm.
- Press the button located on the wiper blade mounting and pull straight out (1), parallel with the wiper arm.
- 3. Slide in (2) the new wiper blade until a "click" is heard.
 - > Check (3) that the blade is firmly installed and fold down the wiper arm.



Battery

Operation

The service life and function of the battery is influenced by factors such as the number of starts, discharging, driving style, driving conditions and climatic conditions.

- Never disconnect the battery when the engine is running.
- Check that the cables to the battery are correctly connected and properly tightened.

\Lambda WARNING

- The battery can generate oxyhydrogen gas, which is highly explosive. A spark can be formed if a jump lead is connected incorrectly, and this can be enough for the battery to explode.
- The battery contains sulphuric acid, which can cause serious burns.
- If sulphuric acid comes into contact with eyes, skin or clothing, flush with large quantities of water. If acid splashes into the eyes - seek medical attention immediately.

i) NOTE

The life of the battery is shortened if it becomes discharged repeatedly.

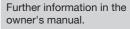
The life of the battery is affected by several factors, including driving conditions and climate. Battery starting capacity decreases gradually with time and therefore needs to be recharged if the car is not used for a longer time or when it is only driven short distances. Extreme cold further limits starting capacity.

To maintain the battery in good condition, at least 15 minutes of driving/week is recommended or that the battery is connected to a battery charger with automatic trickle charging.

A battery that is kept fully charged has a maximum service life.

Symbols on the battery





Use protective gogales.



Store the battery out of the reach of children.

The battery contains corrosive acid.





Battery



Avoid sparks and naked flames.





Must be taken for recycling.

i note

An expended battery must be recycled in an environmentally correct manner as it contains lead.

Changing the battery

Removal

- 1. Remove the remote control key from the ignition switch.
- 2. Wait at least 5 minutes before touching any electrical terminals.
 - > The car's electrical system needs to store the necessary information to the control modules.
- 3. Remove the cover.
- 4. Detach the black negative cable.

🚹 WARNING

Connect and remove the positive and negative cables in the correct order.

- 5. Detach the red positive cable.
- 6. Undo the front wall of the battery box using a screwdriver.
- 7. Detach the ventilation hose from the battery.
- 8. Release the clamp securing the battery.
- 9. Remove the battery.

Fitting

1. Fit the battery into position.

- 2. Tighten the clamp that holds the battery.
- 3. Connect the ventilation hose.
 - > Check that it is correctly connected to both battery and outlet in the body.
- 4. Reinstall the front wall of the battery box.
- 5. Connect the red positive cable.
- 6. Connect the black negative cable.
- 7. Attach the cover to the battery.

For more information on the car's battery - see pages 169 and 280.

General

All bulb specifications are given on page 280.

The following list contains locations of bulbs and other light sources that are specialised or unsuitable for changing except at a workshop:

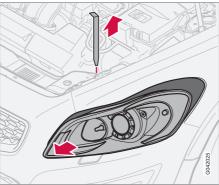
- Active Xenon headlamps ABL (Xenon lamps)
- Daytime running lights (DRL) in the spoiler
- Direction indicators, door mirror and approach lighting
- Reading lamps, courtesy lighting and glovebox lighting
- General interior lighting in the roof
- Brake light

On cars with Xenon headlamps, the replacement of Xenon lamps must be carried out at a workshop - an authorised Volvo workshop is recommended. Working with Xenon lamps demands extreme caution because the headlamp is equipped with a high voltage unit.

IMPORTANT

Never touch the glass part of the bulbs with your fingers. Grease and oil from your fingers are vaporised by the heat, coating the reflector and then causing damage.

Changing front bulbs



All front bulbs (except for fog lamps) are changed by first removing the lamp housing from the engine compartment.

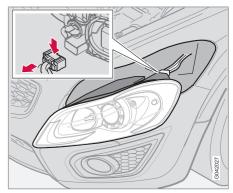
Removing the lamp housing

- 1. Remove the remote control key and turn the light switch to position **0**.
- 2. Withdraw the lamp housing's locking pin.

IMPORTANT

Do not pull the electrical cable, only the connector.

- 3. Pull the lamp housing to the side and then forward.
- Unplug the connector by pressing down the clip with a thumb while moving out the connector with the other hand.



5. Lift out the lamp housing and place it on a soft surface to avoid scratching the lens.

Fitting the lamp housing

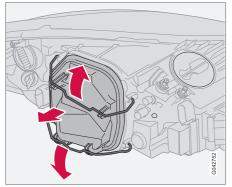
- 1. Plug in the connector and refit the lamp housing and locking pin. Check that the pin is correctly inserted.
- 2. Check the lighting.

The lamp housing must be plugged in and secured in place before the lighting is switched



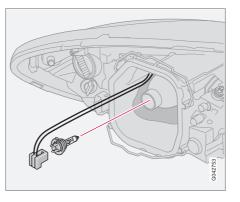
on or the remote control key inserted into the ignition switch.

Dipped beam



Removing the cover and bulb

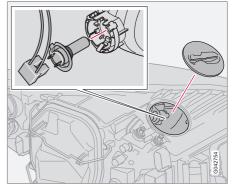
- 1. Remove the entire lamp housing.
- 2. Bend aside the catches and remove the cover.
- 3. Release the spring clip securing the bulb. First, press it to the left to release it, then out and down.
- 4. Pull out the bulb.



Fitting a new bulb

- 1. Fit the new bulb. It can only fit in one position.
- 2. Press the spring clip in/up and then slightly to the right in order to snap it into position.
- 3. Press the connector back on.
- 4. Refit the plastic cover.
- 5. Refit the lamp housing, see page 219.

Main beam



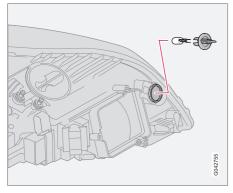
- 1. Remove the entire lamp housing.
- Left-hand headlamp: turn the bulb holder anticlockwise. Right-hand headlamp:

turn the bulb holder clockwise.

- 3. Withdraw the bulb holder and change the bulb.
- 4. Refit the bulb holder. It can only be refitted in one position.
- 5. Refit the lamp housing.

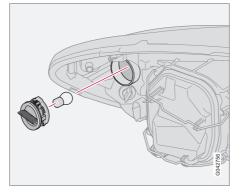
09

Position/parking lamps



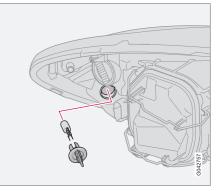
- 1. Twist the bulb holder anticlockwise and withdraw it. Replace the bulb.
- 2. Refit the bulb holder. It can only be refitted in one position.

Direction indicators



- 1. Twist the bulb holder anticlockwise and remove it.
- 2. To remove the bulb from the bulb holder, press the bulb in and turn it anticlockwise.
- 3. Fit a new bulb and refit the bulb holder into the lamp housing.

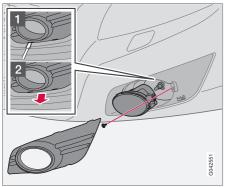
Side marker lamps



- 1. Twist the bulb holder anticlockwise and withdraw it. Replace the bulb.
- 2. Refit the bulb holder. It can only fit in one position.



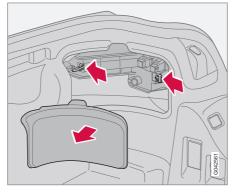
Front fog lamps



- 1. Switch off all lights and turn the remote control key to position **0**.
- 2. Pull the cover straight out in the direction of the centre of the car using a tool, see the illustration above.
 - > (Loosen the clips (1) and pull straight out (2).)
- 3. Remove the screw securing the lamp housing and take out the lamp housing.
- 4. Unplug the connector from the bulb.
- 5. Turn the bulb anticlockwise and pull it out.
- 6. Fit the new bulb and turn it clockwise.

- 7. Refit the bulb holder. The **TOP** mark on the bulb holder must always be upward.
- 8. Secure the lamp housing with the screw and press the panel back into place.

Removing the bulb holder



All bulbs in the rear lamp cluster are replaced from inside the cargo area.

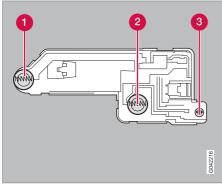
- 1. Switch off all lights and turn the remote control key to position **0**.
- 2. Remove the cover in the panel to access the bulbs. They are fitted in a separate bulb holder.

- 3. Unplug both connectors from the bulb holder.
- 4. Press the catches together and at the same time pull out the bulb holder.
- 5. Replace the bulb and plug in both connectors.
- 6. Press the bulb holder into place and refit the cover.

i) NOTE

If an error message remains after the broken bulb has been replaced then we recommend that you visit an authorised Volvo workshop.

Location of bulbs in the rear bulb holder



Bulb holder (right-hand bulb holder shown).

- 1 Fog lamp
- 2 Direction indicators
- 3 Reversing lamp

i note

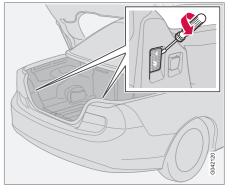
The rear fog lamp only illuminates in the left rear light cluster on a left-hand drive car and in the right on a right-hand drive.



Interest of the second s

- 1. Switch off all lights and turn the remote control key to position **0**.
- 2. Remove the screws with a screwdriver.
- 3. Detach the lens carefully.
- 4. Replace the bulb.
- 5. Refit and screw in the lens.

Cargo area



- 1. Insert a screwdriver and gently turn so that the lamp housing comes loose.
- 2. Remove the blown bulb.
- 3. Fit a new bulb.

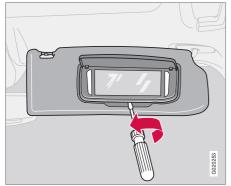


09



Replacing bulbs

Vanity mirror lighting*



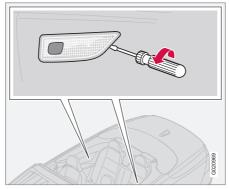
Removing the mirror glass

- 1. Insert a screwdriver underneath the lower edge, in the centre. Carefully prize up the lug on the edge.
- 2. Insert the screwdriver underneath the edge on the left and right-hand sides (by the black rubber sections), and prize carefully so that the glass comes loose in the lower edge.
- 3. Carefully detach and lift aside the entire mirror glass and cover.
- 4. Remove the blown bulb and replace it with a new one.

Fitting the mirror glass

- 1. First, press the three lugs at top edge of mirror glass back into position.
- 2. Then press the three lower lugs back into position.

Interior lighting, rear



- 1. Insert a screwdriver and gently turn so that the lamp housing comes loose.
- 2. Remove the blown bulb.
- 3. Fit a new bulb.



Fuses

General

All electrical functions and components are fused to protect the car's electrical system from damage by short circuiting and overloading.

The fuses are in two different locations in the car:

- Relay/Fuse box in the engine compartment.
- Relay/Fuse box in the passenger compartment.

Changing

If an electrical component or function does not work, it may be because the component's fuse was temporarily overloaded and blew.

- 1. Look in the fuse diagram to locate the fuse.
- 2. Pull out the fuse and check from the side to see whether the curved wire has blown.
- 3. If this is the case, replace it with a new fuse of the same colour and amperage.

Each fuse box has space for several spare fuses. If the same fuse fails repeatedly then there is a fault in the component. In which case, Volvo recommends that you visit an authorised Volvo workshop for this to be checked.

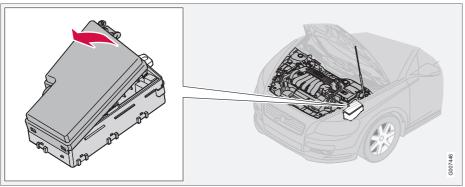
🚹 WARNING

Never use a foreign object, or a fuse with an amperage higher than that specified when replacing a fuse. This could cause significant damage to the electrical system and possibly lead to fire.



Fuses

Relay/fuse box in the engine compartment



The fuse box has 36 fuse positions. Be sure to replace a blown fuse with a new fuse of the same colour and amperage.

- Fuses 19-36 are of the "Mini Fuse" type.
- Fuses 7-18 are of the "JCASE" type and should be replaced by a workshop.¹
- Fuses 1-6 are of the "Midi Fuse" type and must only be replaced by a workshop.¹

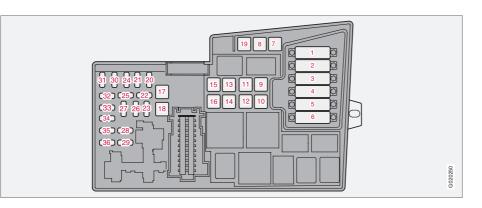
On the inside of the cover there are tweezers that facilitate the procedure for the removal and fitting of fuses.

¹ An authorised Volvo workshop is recommended.



09

Fuses



1.	Cooling fan	50 A
2.	Power steering	80 A
3.	Supply to passenger compart- ment fuse box	60 A
4.	Supply to passenger compart- ment fuse box	60 A
5.	PTC element, air preheater*	80 A
6.		
0.	Glow plugs (5-cyl. diesel)	70 A
7.	ABS pump	40 A
8.	ABS valves	20 A

9.	Engine functions	30 A
10.	Ventilation fan	40 A
11.	Headlamp washer, Power roof, Lockable storage compart- ment	20 A
12.	Heated rear window	30 A
13.	Actuator solenoid, starter motor	30 A
14.	Trailer wiring*	40 A
15.	Power roof	30 A
16.	Infotainment system	40 A

17.	Windscreen wipers	30 A
18.	Supply to passenger compart- ment fuse box	40 A
19.	Reserve	-
20.	Horn	15 A
21.	Fuel-driven additional heater, passenger compartment heater*	20 A
22.	Subwoofer	25 A



09

Fuses

23.	Engine control module (5-cyl. petrol), Transmission control module (5-cyl.)	10 A
24.	Heated fuel filter (5-cyl. diesel), PTC element, oil trap (5-cyl. diesel)	20 A
25.	Reserve	-
26.	Ignition switch	15 A
27.	A/C compressor	10 A
28.	Reserve	-
29.	Front fog lamps	
	Daytime running lights (DRL)*	15 A
30.	Reserve	-
31.	Reserve	-
32.	Injectors (5-cyl. petrol), Turbo control valve (5-cyl. diesel), Oil level sensor (5-cyl. diesel)	10 A
33.	Vacuum pump (5-cyl. petrol), Relay coil, relay, vacuum pump (5-cyl. petrol), Engine control module (5-cyl. diesel)	20 A

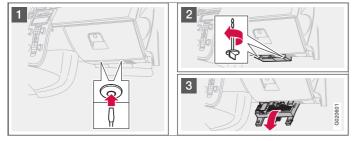
34.	Ignition coils (petrol), Pressure switch, climate control system (5-cyl.), Control module, glow plugs (5-cyl. diesel), EGR emission control (5-cyl. diesel)	10 A
35.	Relay coil, relay, climate con- trol system, PTC element, oil trap (5-cyl. petrol), Mass air flow sensor (5-cyl. petrol), Turbo control valve (5-cyl. pet- rol), Solenoids, variable valve timing (5-cyl. petrol), Control valve, fuel pressure (5-cyl. die- sel), Engine control module (5- cyl. diesel)	15 A
36.	Engine control module (petrol, DRIVe), Accelerator pedal position sensor (5-cyl. diesel), Lambda-sond (5-cyl. diesel)	10 A



09

Fuses

Relay/Fuse box in the passenger compartment



The fuse box has 50 fuse positions. The fuses are located under the glovebox. The box also provides space for several spare fuses. Tools for fuse replacement are located in the relay/ fuse box in the engine compartment, see page 226.

Replacing fuses

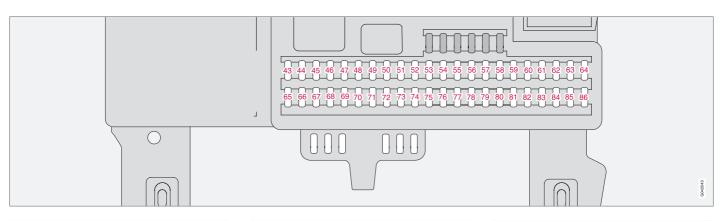
- Remove the trim concealing the fuse box by pressing in the pin in the centre of the clips (1) about one cm and then withdrawing the clips.
- 2. Turn the two wing screws (that secure the fuse box) (2) anticlockwise and remove them.
- 3. Lower the fuse box (3) half way. Pull it towards the seat until it stops. Lower it

completely. The fuse box can be fully unhooked.

- 4. Close the fuse box in the reverse order.
- 5. Remove the pins from the centre of the clips. Fit the trim and the clips. Reinsert the pins into the clips. This expands the clips and secures the trim.



Fuses



43.	Telematics*, Audio system, RTI*, Bluetooth*	15 A
44.	SRS system, Engine control module (5-cyl.)	10 A
45.	Electrical socket, passenger compartment	15 A
46.	Passenger compartment, glo- vebox and courtesy lighting	5 A
47.	Interior lighting, Remote con- trolled garage door opener*	5 A
48.	Washer	15 A

49.	SRS system	10 A
50.	Reserve	-
51.	PTC element, air preheater*, Relay coil, relay, heated fuel filter (5-cyl. diesel)	10 A
52.	Transmission control module, ABS system	5 A
53.	Power steering	10 A
54.	Parking assistance*, Xenon*	10 A
55.	Control module Keyless*	20 A

56.	Remote control receiver, Siren*	10 A
57.	Data link connector (DLC), brake light switch	15 A
58.	Main beam, right, Relay coil, relay, auxiliary lamps*	7.5 A
59.	Main beam, left	7.5 A
60.	Seat heating (driver's side)	15 A
61.	Seat heating (passenger side)	15 A
62.	Reserve	-



09

Fuses

63.	Supply, power window, right rear	20 A
64.	Indicator lamps for door locks	5 A
65.	Audio, Infotainment	5 A
66.	Audio, Infotainment, Climate control system	10 A
67.	Reserve	-
68.	Cruise control	5 A
69.	Climate control system, Rain sensor, Buttons for BLIS*, parking assistance*	5 A
70.	Reserve	-
71.	Reserve	-
72.	Reserve	-
73.	Overhead console for interior lighting, Seatbelt reminder, rear, Dimming, interior rear- view mirror*	5 A
74.	Fuel pump	15 A
75.	Reserve	_
76.	Reserve	-

77.	Electrical socket cargo area, Control module, accessories*	15 A
78.	Reserve	-
79.	Reversing lamp, Dimming, interior rearview mirror (signal)	5 A
80.	Reserve	-
81.	Supply, power window, left rear	20 A
82.	Supply, power window and door, right front	25 A
83.	Supply, power window and door, left front	25 A
84.	Power seat, passenger	25 A
85.	Power seat, driver	25 A
86.	Interior lighting, cargo area lighting, power seats	5 A

General	. 234
Audio functions	236
Radio functions	241
CD functions	246
Menu structure – audio system	249
Phone functions*	250
Menu structure – phone*	
Bluetooth handsfree*	260



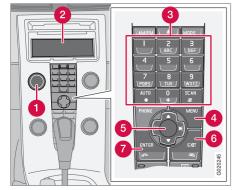
INFOTAINMENT SYSTEM





General

Infotainment system



- POWER Pushbutton, audio system on/ off
- 2 Display
- 8 Keypad
- 4 MENU Goes to the menu system
- 6 Navigation buttons
- 6 EXIT Exits the menu system
- **ENTER** Selects/activates/deactivates

Infotainment is a system that integrates the audio system and phone*. The infotainment

system can be easily operated using the control panel or the steering wheel keypad*, see page 68. The display (2) shows messages and information on the current function.

Audio system

On/Off

POWER (1) starts/switches off the audio system. If the audio system is active when the remote control key is turned to position **0** then it continues to be active until the remote control key is removed from the ignition switch. The audio system is started automatically the next time the remote control key is turned to position **I**.

Menus

Some infotainment system functions are controlled via a menu system. The current menu level is shown at the top right of the display. Menu options are shown in the middle of the display.

- MENU (4) leads to the menu system.
- Up/down with the navigation button (5) moves between menu options.
- ENTER (7) selects/activates/deactivates one of the menu options.

 EXIT (6) leads back one step in the menu structure. A long press on EXIT will exit the menu system.

Shortcuts

Menu options are numbered and can also be selected directly with the keypad (3). So first press **MENU** and then the figure/figures for the desired menu option.

Equipment

The audio system can be equipped with different options and different versions. There are three audio system versions:

- Performance,
- High Performance* or
- Premuim Sound*

However, FM radio with RDS, AM radio and CD player are included in all audio systems.



General

Dolby Surround Pro Logic II^{®1}

Dolby Surround Pro Logic II[®] distributes the two stereo audio channels to left, centre, right and rear speakers. This provides a more realistic sound quality than that provided by standard two-channel stereo.

Dolby Surround Pro Logic II[®] and the Dolby icon are trademarks of Dolby Laboratories Licensing Corporation.

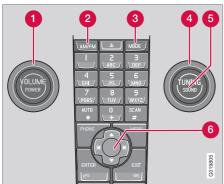
Dolby Surround Pro Logic II System[®] is manufactured under license from Dolby Laboratories Licensing Corporation.

¹ Premium Sound.



Audio functions

Audio controls



ume adjusts automatically depending on vehicle speed, see page 239.

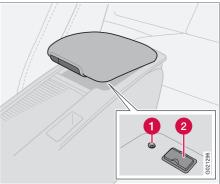
Audio source selection Repeatedly pressing AM/FM switches between FM1, FM2 and AM.

Repeatedly pressing **MODE** changes between **CD**, **USB**, **AUX** and **BT**.

External audio sources

AUX, USB*

General



- **AUX** input
- 2 USB input*

The AUX and USB inputs enable the connection of an external audio source, e.g. an $iPod^{\otimes 1}$ or MP3 player.

If you choose to connect an iPod[®], MP3 player or a USB memory stick to the USB connection then you can control the media via the car's audio controls.

- 1 VOLUME Knob
- 2 AM/FM Audio source selection
- 6 MODE Audio source selection, CD, AUX, USB (e.g. iPod[®])¹ and BT*
- 4 TUNING Knob
- **SOUND** Button
- 6 Navigation button Menus

Volume

Use **VOLUME** (1) or the steering wheel keypad to regulate the volume, see page 68. Audio vol-

¹ USB only applies for High Performance and Premium Sound. The iPod trademark belongs to Apple Computer Inc.

Audio functions

Use the **MODE** button to select the external audio source you wish to use.

- 1. If USB is selected then Connect device is shown in the display.
- Connect your iPod[®], MP3 player or USB memory stick to the USB connection in the centre console's storage compartment (see preceding illustration).
 - > The text Loading appears on the display when the system loads the file structure on the storage media. This takes a while.

When the loading is finished the track information is shown on the display and it is possible to select the track required.

Track selection can take place in the following three ways:

- Select TUNING (4) clockwise or anticlockwise.
- Use the right or left-hand button (6) of the navigation control to scroll to the desired track.
- With the steering wheel keypad.

In USB or iPod[®] mode the infotainment system operates in an equivalent way to the CD player for playing back music files. For more information, see page 246.

The system supports the playback of music files in the MP3, WMA and WAV file formats. However, there are variants of these file formats that are not supported by the system. The system also supports most iPod® models produced in 2005 or later. iPod® Shuffle is not supported.

USB memory

To facilitate the use of USB memory avoid storing any files other than music files in the memory. It takes considerably longer for the system to load storage media that contains items other than playable music files.

NOTE

The system supports removable media which is compatible with USB 2.0 and the FAT32 file system, and can handle a maximum of 500 folders and 64 000 files. The memory must have a capacity of at least 256 Mb.

MP3 player

Many MP3 players have their own file systems that are not supported by the audio system. For use in the system, an MP3 player must be set in USB Removable device/Mass Storage Device mode.

iPod®

An iPod[®] is charged and supplied with power by the USB connection via the player's connection cable. However, if the player's battery is completely discharged then it must be charged before the player is connected.

ΝΟΤΕ

When an iPod[®] is used as audio source, the car's infotainment system has a menu structure that is similar to the iPod[®] player's own menu structure.

AUX

Sometimes the AUX external audio source can be heard at a different volume to the internal audio sources, e.g. the CD player. If the audio volume of the external audio source is too high then the sound quality can be impaired. Prevent this by adjusting the input volume of the AUX input.

ΝΟΤΕ

The sound quality may be impaired if the player is charged while the audio system is in AUX mode, so avoid charging the player.



Audio functions

Streaming audio via Bluetooth®*

10

General

If the car is equipped with Bluetooth[®] handsfree* and a mobile phone is connected then the audio system can wirelessly play back streaming audio files from the mobile phone. Navigation and control of the sound can be carried out via the centre console buttons or via the steering wheel keypad*. In some mobile phones it is also possible to change tracks from the phone.

To be able to play back the audio a device must first be paired and connected to the car. For information about pairing and connection, see page 260. **BT** must also be selected as audio source, see page 236.

i note

The Bluetooth[®] mobile phone must support the Audio/Video Remote Control Profile (AVRCP) and Advanced Audio Distribution Profile (A2DP). The phone should use AVRCP version 1.3, A2DP 1.2. Otherwise some functions may not work.

NOTE

Not all mobile phones available in the market are fully compatible with the Bluetooth[®] function in the car's audio system. Volvo recommends that you contact an authorised Volvo dealer or visit www.volvocars.com for information on compatible phones and external media players.

Playback

Press the **MODE** button repeatedly in order to select **BT** as audio source.

Audio file selection can take place in the following three ways:

- Select TUNING (4) clockwise or anticlockwise.
- Use the down of the navigation control to scroll to the desired audio file.
- With the 🖌 or 🕨 buttons on the steering wheel keypad.

Audio settings

Adjusting audio settings

Press **SOUND** (5) repeatedly to browse among the following options. Adjust by turning **TUNING**.

- BASS Bass level.
- TREBLE Treble level.
- FADER Balance between the front and rear speakers.
- **BALANCE** Balance between the left and right-hand speakers.
- SUBWOOFER* Bass speaker level. Subwoofer must be activated before adjustment is possible, see under the heading Activating/deactivating the subwoofer below.
- **CENTRE**² Level for centre speaker. Three channel stereo or Pro Logic II[®] must be activated before adjustment is possible, see under the heading Activating/deactivating surround sound below.
- SURROUND² Level for surround. Pro Logic II[®] must be activated before adjustment is possible, see under the heading Audio settings below.

² Premium Sound.

Audio functions

Activating/deactivating the subwoofer

- Press **MENU** and then **ENTER**.
- Scroll to Audio settings... and press ENTER.
- Scroll to Subwoofer and press ENTER. •

Surround²



Surround settings govern the spatial DOPLI perception of the sound. Settings and activating/deactivating are separate for each audio source.

The Dolby[®] icon in the display indicates that Dolby Pro Logic II[®] is active. There are three different settings for surround sound:

- **Dolby Pro Logic II**
- 3 channel
- Off 2 channel stereo.

Activating/deactivating surround sound

- 1. Press MENU and then ENTER.
- 2. Scroll to Audio settings... and press FNTFR

- 3. Scroll to Surround FM.... Surround AM.... Surround CD...or Surround AUX... and press ENTER.
- 4. Scroll to Dolby Pro Logic II³, 3 channel or Off and press ENTER.

Equalizer front/rear⁴

The equalizer can be used to adjust different frequency bands separately.

Adjusting equalizer

- 1. Press MENU and then ENTER.
- 2. Scroll to Audio settings... and press ENTER.
- 3. Scroll to Equalizer front... or Equalizer rear... and press ENTER.
- 4. The graphic on the display indicates the audio level of the frequency in guestion.
- 5. Adjust the level with **TUNING** (4) or up/ down with the navigation button. Additional frequencies can be selected using the left/right navigation button.
- 6. Save with ENTER or EXIT to exit without saving the settings.

Automatic volume control⁵

The auto volume control function allows the audio volume to increase as the speed of the car increases. There are three levels to choose from: Low. Medium and High.

Adjusting automatic volume control

- 1. Press MENU and then ENTER.
- 2. Scroll to Audio settings... and press ENTER.
- Scroll to Auto, volume control... and press ENTER.
- 4. Scroll to Low. Medium or High and press ENTER.

Automatic audio settings

The acoustic properties of the passenger compartment are changed when speed increases or when the roof is opened. For this reason the character of the sound is automatically adapted to these situations in order to provide the best possible sound. The adaptation that takes place when the roof is opened is fully automatic.

² Premium Sound.

³ Not available in AM and FM mode.

⁴ Certain audio systems.

⁵ Not Performance



10 Infotainment system

Audio functions

Optimum sound reproduction

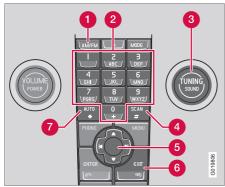
The audio system is calibrated for optimum sound reproduction by means of digital signal processing.

This calibration takes into account loudspeakers, amplifiers, passenger compartment acoustics, listener position etc. for each combination of car model and audio system.

There is a also a dynamic calibration that takes into account the position of the volume control, radio reception and vehicle speed.

The controls explained in these operating instructions, e.g. bass, treble and equalizer* are only intended for the user to be able to adapt the sound reproduction according to personal taste.

Radio controls



- FM/AM Wavelength selection
- 2 Station presets
- **3 TUNING** Knob for station searches
- 4 SCAN Scanning
- 6 Navigation button Tuning and menus
- 6 EXIT Cancel current function
- AUTO Automatic storage of stations

Tuning

Automatic tuning

- 1. Select wavelength using AM/FM (1).
- 2. Give a brief press on I or I.

The radio then automatically searches for the next strong station.

Manual tuning

- 1. Select wavelength using AM/FM (1).
- Adjust the frequency by turning **TUNING** (3).

Tune into a station with a long press on I or

- ▶. Or by using the steering wheel keypad:
- Hold in or on the navigation button depressed until the desired frequency appears on the display.

As long as the frequency graphic appears on the display, searching can be resumed by briefly pressing \frown or \frown .

Storing stations

Ten station presets can be stored per wavelength. FM has two memories for presets: FM1 and FM2. Preset stations are selected using the preset buttons (2) or the steering wheel keypad.

Storing stations manually

- 1. Tune into a station.
- 2. Hold a station preset button depressed until the message **Station stored** appears on the display.

Automatic storage of stations

AUTO (7) seeks out the ten strongest radio stations and stores them automatically in a separate memory. The function is especially useful in areas where the radio stations and their frequencies are unfamiliar.

Starting automatic storage of stations

- 1. Select wavelength using AM/FM (1).
- 2. Hold **AUTO** (7) depressed until **Autostoring** appears on the display.

Once **Autostoring** disappears from the display, the stations are stored. The radio continues in Auto mode and **Auto** appears on the display. The automatically stored presets can now be selected using the preset buttons (2).

Cancelling automatic storage of stations – Press EXIT (6). 10



Selecting an auto-stored preset Allowing the radio to remain in Auto mode provides access to the autostored presets.

- 1. Briefly press AUTO (7).
 - > Auto appears on the display.
- 2. Press a preset button (2).
 - > The radio remains in Auto mode until it is exited by a brief press on AUTO (7), EXIT (6) or AM/FM (1) cancels Auto mode.

Storing autostored presets in another memory

An autostored preset can be transferred to the FM or AM memory.

- 1. Briefly press AUTO (7).
 - > Auto appears on the display.
- 2. Press the preset button for the station you want to move.
- 3. Press the button under which the station will be stored and hold it depressed until the message **Station stored** appears on the display.
 - > The radio exits Auto mode and the stored station can be selected as a preset.

Scanning

SCAN (4) automatically searches through a wavelength for strong stations. When a station is found, it is played for approx. 8 seconds before scanning is resumed.

Activating/deactivating Scan

- 1. Select wavelength using AM/FM.
- 2. Press SCAN to activate.
 - SCAN appears on the display. Close using SCAN or EXIT.

Storing a station

A selected station can be stored as a preset while **SCAN** is active.

- Press a station preset button and hold it depressed until the message Station stored appears on the display.
 - > Scanning is interrupted and the stored station can be selected as a preset.

RDS functions¹

Radio Data System - RDS links FM transmitters into a network. An FM transmitter in such a network sends information that gives an RDS radio the following functions:

- Automatically switches to a stronger transmitter if reception in the area is poor.
- Searches for programme form, such as traffic information or news.
- Receives text information on current radio programme.

Some radio stations do not use RDS or only some if its functionality.

Programme functions

In FM mode, the radio can search for stations with certain programme types. If a required programme type is located the radio can switch stations interrupting the audio source currently in use. For example, if the CD player is in use, it is paused. The interrupting transmission is played at a preset audio volume, see page 245. The radio returns to the previous audio source and audio volume when the set programme type is no longer broadcast.

The programme functions alarm (ALARM!), traffic information (TP), news (News), and pro-

¹ The RDS functions available vary in the different markets

gramme types (PTY) interrupt one another in order of priority, where alarm has the highest priority and programme types has the lowest.

If you want to return to the interrupted audio source before the message or programme type has been completed, press EXIT.

For further programme interruption settings, see EON and REG see page 244. The programme functions are modified via the menu system, see page 234.

Alarm

This function is used to warn of serious accidents and catastrophes. The alarm cannot be temporarily interrupted or deactivated. The message ALARM! appears on the display when an alarm message is transmitted.

Traffic information – TP



This function allows traffic informa-TPII tion broadcast within a set station's RDS network to break through. TP shows that the function has been

activated. If the set station can send traffic information then TPul appears on the display.

Activating/deactivating TP

- 1. Press MENU and then ENTER.
- 2. Scroll to TP and press ENTER.

TP from current station/all stations The radio can interrupt with traffic information from only the set (current) station or from all stations.

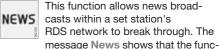
- 1. Select an FM station.
- 2. Press MENU and then ENTER.
- 3. Scroll to Advanced radio settings... and press ENTER.
- 4. Scroll to TP and press ENTER.
- 5. Scroll to TP station... and press ENTER.
 - > Either TP from current station or TP from all stations is shown on the display.
- 6. Press ENTER.

Activating/deactivating TP search

TP search is useful during long journeys while an audio source other than the radio is being played. The function automatically searches for traffic information within different RDS networks.

- 1. Press **MENU** and then **ENTER**.
- 2. Scroll to Advanced radio settings... and press ENTER.
- 3. Scroll to TP and press ENTER.
- 4. Scroll to TP search and press ENTER.

News



tion is active.

Activating/deactivating News

- 1. Press MENU and then ENTER.
- 2. Scroll to News and press ENTER.

News from current station/all stations The radio can interrupt with news from only the set (current) station or from all stations.

- 1. Select an FM station.
- 2. Press MENU and then ENTER.
- Scroll to Advanced radio settings... and press ENTER.
- 4. Scroll to News station... and press ENTER
 - > Fither News from current station or News from all stations is shown on the display.
- 5. Press ENTER.



Programme types – PTY

10

PTY The PTY function can be used to select different programme types, such as **Pop music** and **Serious** classic. The PTY symbol indicates

that the function is active. This function allows programme types broadcast within a set station's RDS network to break through.

Activating/deactivating PTY

- 1. Select FM1 or FM2 with FM/AM.
- 2. Press MENU and then ENTER.
- 3. Scroll to PTY and press ENTER.
- 4. Scroll to Select PTY... and press ENTER.
 - > A list of programme types appears: Current affairs, Information etc. The PTY function is activated by selecting programme types and deactivated by clearing all PTYs.
- 5. Select the desired programme types or Clear all PTY...

Search PTY

This function searches the entire wavelength for the selected programme type.

- 1. Activate PTY.
- 2. Press **MENU** and then **ENTER**.
- 3. Scroll to PTY and press ENTER.

4. Scroll to Search PTY and press ENTER.

If the radio finds any of the selected programme types, >| **To seek** appears on the display. Press the navigation button \blacktriangleright to continue searching for another broadcast of the selected programme types.

Display of programme type

The programme type of the current station can be shown on the display.

i note

Not all radio stations support this function.

Activating/deactivating display

- 1. Press MENU and then ENTER.
- 2. Scroll to PTY and press ENTER.
- 3. Scroll to Show PTY and press ENTER.

Radio text

Some RDS stations transmit information on programme content, artists, etc. This information can be shown on the display.

Activating/deactivating radio text

- 1. Press MENU and then ENTER.
- 2. Scroll to Radio text and press ENTER.

Automatic frequency update – AF

The AF function selects one of the strongest transmitters for a set station. The radio may sometimes need to search through the entire FM wavelength to find a strong transmitter. If this occurs, the radio mutes and **PI seekEXIT** to cancel appears in the display.

Activating/deactivating AF

- 1. Press **MENU** and then **ENTER**.
- Scroll to Advanced radio settings... and press ENTER.
- 3. Scroll to AF and press ENTER.

Regional radio programmes - REG



This function causes the radio to continue with a regional transmitter even if its signal strength is low.

Regional indicates that the function is active. The regional function is normally deactivated.

Activating/deactivating REG

- 1. Press MENU and then ENTER.
- Scroll to Advanced radio settings... and press ENTER.
- 3. Scroll to Regional and press ENTER.



Enhanced Other Networks – EON

The EON function is especially useful in urban areas with many regional radio stations. It allows the distance between the car and the radio station transmitter to determine when programme functions should interrupt the current audio source.

- Local interrupts only if the radio station transmitter is close.
- Distant interrupts if the station transmitter is far away, even if there is a lot of static.
- Off no interruption for programmes from other transmitters.

Activating/deactivating EON

- 1. Press MENU and then ENTER.
- Scroll to Advanced radio settings... and press ENTER.
- 3. Scroll to EON... and press ENTER.
- 4. Scroll to Local, Distant or Off and press ENTER.

Resetting RDS functions

Resets all radio settings to the original factory settings.

- 1. Press MENU and then ENTER.
- Scroll to Advanced radio settings... and press ENTER.
- 3. Scroll to Reset all... and press ENTER.

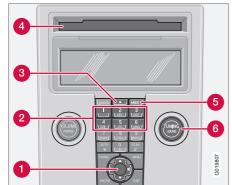
Volume control, programme types

The interrupting programme types are heard at the volume selected for each programme type. If the volume level is adjusted during the programme interruption, the new level is saved until the next programme interruption.



CD functions

CD function controls



- Navigation button Fast forward/rewind, track selection and menus
- 2 CD changer position selection*
- 3 CD insertion/eject
- 4 CD insertion/eject slot
- 6 MODE Selection of audio source (CD, AUX, USB*)
- **6 TUNING** Knob for track selection

Starting playback (CD player)

If a music CD is in the player when the audio system is in CD mode then playback is started

automatically. Otherwise, load a disc and change to CD mode by pressing **MODE**.

Start playback (CD changer*)

If a CD position with a music CD is already selected when the audio system is activated then playback starts automatically. Otherwise change to CD changer mode using **MODE** and select a disc with the number buttons **1–6** or Up/Down on the navigation button.

Insert a CD

- Select an empty position with buttons 1– 6 or Up/Down on the navigation button.
 - > An empty position is marked on the display. The text **Insert disc** shows that a new disc can be inserted. The CD changer can hold up to 6 CD discs.
- 2. Inserting a CD in the CD changer.

CD eject

A CD will stay in the ejected position for approx. 12 seconds. Following which it is reinserted in the player and playback continues.

Eject individual discs by pressing the eject button (3).

Eject all discs with a long press on the eject button. The entire magazine is emptied disc by disc. The message **EJECT ALL** is shown in the display.

Pause

If the volume is turned down completely, the CD player is stopped. The player is restarted when volume is increased.

Audio files*

The CD player/CD changer* also supports MP3 and WMA format audio files.

I) NOTE

Certain types of copy-protected audio files cannot be read by the player.

When a CD containing audio files is inserted into the player the disc's folder structure is loaded in. It may take a while before playback starts due to the quality of the disc.

Navigation and playback

If a disc with audio files is inserted in the CD player then the disc's folder structure is shown by pressing **ENTER**. The folder structure is navigated in the same way as the audio system's menu structure. Audio files have the symbol \checkmark and folders have the symbol \frown . Start audio file playback with **ENTER**.

When the playback of a file is finished the playback of the other files in the same folder continues. Folder change takes place automati-

CD functions

cally when all files in the current folder have been played back.

Press left/right on the navigation button if the display is not wide enough to show the whole audio file name.

Fast-wind/change CD tracks and audio files

Short presses right/left on the navigation button are used to scroll between

CD tracks/audio files. Long presses are used to fast-wind CD tracks/audio files. **TUNING** (or the steering wheel keypad) can also be used for this purpose.

Scan CD

This function plays the first 10 seconds of each CD track/audio file. Press **SCAN** to activate. Interrupt with **EXIT** or **SCAN** to continue playback of the current CD track/audio file.

Random

This function plays the tracks in random order. The random CD tracks/audio files can be scrolled through in the normal way.

NOTE

It is only possible to scroll between random CD tracks ¹ on the current disc.

Different messages appear on the display depending on which random function has been selected:

- **RANDOM** means that the tracks from only one music CD are played
- RND ALL means that all tracks on all music CDs in the CD changer are played.
- RND FLD means that the audio files in a folder on the current CD are played.

Activating/deactivating, random (CD player)

If a normal music CD is being played:

- 1. Press **MENU** and then **ENTER**.
- 2. Scroll to Random and press ENTER.

If a disc with audio files is being played:

- 1. Press **MENU** and then **ENTER**.
- 2. Scroll to Random and press ENTER.
- 3. Scroll to Folder or Disc and press ENTER.

Activating/deactivating, random (CD changer)

If a normal music CD is being played:

- 1. Press **MENU** and then **ENTER**.
- 2. Scroll to Random and press ENTER.
- 3. Scroll to Single disc or All discs and press ENTER.

The option **All discs** only applies to the music CDs in the changer.

If a CD with audio files is being played:

- 1. Press **MENU** and then **ENTER**.
- 2. Scroll to Random and press ENTER.
- 3. Scroll to Single disc or Folder and press ENTER.

The function is deactivated when another CD is selected.

Disc text

If title information is stored on a music CD then it can be shown on the display².

Activate/deactivate

- 1. Start CD playback.
- 2. Press **MENU** and then **ENTER**.
- 3. Scroll to Disc text and press ENTER.

¹ Applies to the CD changer.

² Applies to CD changer.



10 Infotainment system

CD functions

CDs

Using low quality CD discs could result in poor or non-existent sound.



IMPORTANT

Only use standard discs (12 cm in diameter). Do not use CD discs with adhesive disc labels. The heat in the CD player may cause the label to come off, damaging the CD player.



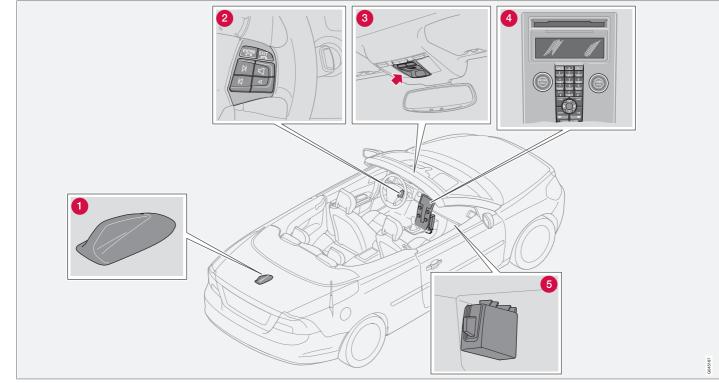
Menu structure – audio system

Overv	iew		3.	News	AUX MENU	
FM ME	ENU ¹		4.	TP	1.	AUX input volume
	1.	News	5.	Disc text	2.	News
	2.	TP	6.*	Audio settings	3.	TP
	3.	PTY	CD MENU		4.*	Audio settings
	4.	Radio text		CD changer* with CD disc	USB MENU*	
	5.	Advanced radio settings		cted.	1.	Playlist
	6.*	Audio settings	1.	Random	2.	Random
AM ME	INU		2.	News	3.	News
	1.*	Audio settings	3.	TP	4.	TP
CD MENU		4.	Disc text	5.	Track information	
For CD player with CD disc.		5.*	Audio settings	6.	Audio settings	
	1.	Random	CD MENU			
	2.	News		CD changer* with MP3 disc cted.		
	3.	TP	1.			
	4.	Disc text	1. 2.	Playlist Random		
	5.*	Audio settings				
CD MENU		3.	News			
	For CE	D player with MP3 disc.	4.	TP		
	1.	Playlist	5.	Disc text		
	2.	Random	6.*	Audio settings		

¹ The RDS functions available vary in the different markets.



Phone functions*



Phone system components.

Phone system components

1 Antenna¹

- 2 Steering wheel keypad. Most phone system functions can be accessed via the keypad. see page 252.
- **6 Microphone.** The hands free microphone is integrated in the roof console beside the rearview mirror.
- 4 Centre console control panel. All phone functions (except call volume) can be regulated via the control panel.
- 6 SIM card reader

General

- Always put traffic safety first.
- Switch off the phone system when refuelling the car.
- Switch off the system near blasting work.
- Volvo recommends that an authorised Volvo workshop carries out phone system servicing.

Emergency calls

Emergency calls to alarm centres can be made without a SIM card as long as there is coverage by a network operator.

Making an emergency call

- 1. Activate the phone.
- 2. Ring the emergency number that applies to your region (within EU: 112).
- 3. Press ENTER.

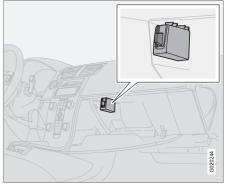
IDIS

With the IDIS system (Intelligent Driver Information System), incoming phone calls and SMS messages can be delayed so that concentration can be focused on driving when IDIS determines that the traffic situation requires a high level of attention.

Incoming calls and SMS messages can be delayed 5 seconds before they are diverted. If the current traffic situation still requires a high level of attention from the driver then the incoming call is diverted to the voice mail. Missed calls are shown in the display.

IDIS be disconnected using menu function 6.5, see page 257.

SIM card



The phone can only be used with a valid SIM card Subscriber Identity Module. Cards are available from various network operators. Contact your network operator if you experience difficulties with the SIM card.

) NOTE

The built-in phone cannot read 3G type SIM cards (3G only). Combined 3G/GSM cards work. Contact your network operator if a replacement SIM card is required.

10

¹ Available only for built-in phone or RTI.



Extra SIM card

Many network operators offer two SIM cards for the same phone number. The extra SIM card can be used in the car.

Inserting the SIM card

- 1. Switch off the phone and open the glovebox.
- 2. Pull out the SIM card holder from the SIM card reader, see illustration on page 251.
- 3. Position the SIM card in the holder with the metal surface visible. The bevelled edge of the SIM card should align with the bevel of the SIM card holder.
- 4. Carefully press in the SIM card holder.

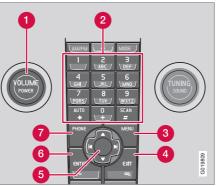
Menus

Page 257 describes how to control phone functions with the menu system.

Traffic safety

For safety reasons, parts of the phone menu system cannot be accessed at speeds in excess of 8 km/h.

Phone controls



Centre console control panel.

- **1 VOLUME** Control the background volume from the radio, for example, during a call
- 2 Number and letter buttons
- **3 MENU** Opens the main menu
- **EXIT** End/refuse calls, clear entered characters
- 5 Navigation button Scroll in menus and character rows
- 6 ENTER Accept calls. A press of the button reveals latest dialled numbers
- **PHONE** On/off and standby mode

Steering wheel keypad



When the phone is active, the steering wheel keypad is locked to phone functions. To control the audio system, the phone must be in standby mode (standby).

- ENTER Accept calls. A press of the button reveals latest dialled numbers.
- 2 EXIT End/refuse calls, clear entered characters. Changes between the audio menu and the phone menu.
- 3 Call volume Increase/decrease
- 4 Navigation buttons Scroll in menus

On/Off

A handset appears in the display when the phone system is active or in standby mode (standby). If the remote control key is turned to position **0** when the phone is in one of these modes, the phone automatically resumes this mode the next time the remote control key is turned to position **I** or **II**.

Activating the phone system

Phone system functions can only be used when the phone is in active mode.

- 1. Press PHONE.
- 2. Enter the PIN code (if necessary) and press **ENTER**.

Deactivating the phone system

No calls can be received when the phone system is deactivated.

Hold **PHONE** depressed until the phone is deactivated.

Standby mode (standby)

In standby mode, the audio system can be in use while calls are received. However, it is not possible to make calls when in standby mode.

Putting the phone in standby mode The phone must first be in active mode before it can be put in standby mode.

Press PHONE.

Activating from standby mode

Press PHONE.

Making and receiving calls

To call

- 1. Activate the phone system (if necessary).
- 2. Dial the number or use the phone book, see page 255.
- 3. Press ENTER.

Receiving a call

For Auto answer, see menu option 4.3, see page 257.

Press ENTER.

Ending a call

Press EXIT.

Refusing a call

Press EXIT.

Call waiting

A two-tone signal during a phone call indicates that there is another incoming call. **Answer?** is shown in the display. The call can be refused or taken in the normal manner. If the incoming call is taken, the previous call is put on hold.

Putting a call on hold/resuming a call 1. Press MENU or ENTER.

2. Scroll to Hold or Resume and press ENTER.

Dialling a third party

- 1. Put the call on hold.
- 2. Dial the number of the third party.

Switching between calls

- 1. Press MENU or ENTER.
- 2. Scroll to Swap and press ENTER.

Starting a conference call

A conference call consists of three parties that can talk to one another. Once a conference call has been initiated, no more parties can be connected. All calls are ended when a conference call is ended.

- 1. Start two phone calls.
- 2. Press MENU or ENTER.
- 3. Scroll to Join and press ENTER.

10



Phone functions*

Volume

The phone uses the driver's door speaker.

Call volume



Call volume is regulated with the steering wheel keypad.

Audio system volume

Audio system volume is temporarily lowered during a phone call. Once the call is ended the previous volume is resumed. If the volume is regulated during the call, the new level is retained once the call is ended. Sound can also be automatically muted during a phone call, see menu 6.4.3, on page 257. This function only applies to the Volvo integrated phone system.

Entering text

Text is entered using the phone keypad.

- 1. Press the key with the desired character once for the first character on the button, twice for the second, etc. See table.
- Press 1 for a space. If two characters in a row are to be entered using the same button, press * or wait a few seconds.

A short press on **EXIT** deletes an input character. A long press on **EXIT** will clear all entered characters.

Кеу	Function
1	space 1 - ? ! , . : " ' ()
ABC	a b c 2 ä å à æ ç
3 DEF	def3èé
4 GHI	ghi4ì
5 JKL	jk15
MNO	m n o 6 ñ ö ò Ø
7 PQRS	pqrs7ß
т <mark>8</mark> тÜV	tuv8üù
9 WXYZ	w x y z 9
AUTO	Pressed briefly if two char- acters shall be entered after each other with the same key.

Key	Function
0 +	+0@*#&\$£/%
SCAN #	Switch between upper and lower case.

Handling numbers

Calling the last number dialled

The phone automatically stores the last phone numbers dialled.

- 1. Press ENTER.
- 2. Scroll to a number and press ENTER.

Phonebook

If the phone book contains a live caller's contact information then this is shown in the display. Contact information can be stored on the SIM card and in the phone.

Storing contacts in the phone book

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to New contact and press ENTER.
- 4. Enter a name and press ENTER.
- 5. Enter a number and press ENTER.

6. Scroll to SIM card or Phone memory and press ENTER.

Searching for contacts in the phone book Use the down arrow of the navigation button instead of **MENU** for direct access to the Search menu.

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to Search and press ENTER.
- Enter the first few letters of the item and press ENTER, or simply press ENTER.
- 5. Scroll to an item and press ENTER.

Copying entries between the SIM card and Phone book

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to Copy all... and press ENTER.
- 4. Scroll to SIM to phone or Phone to SIM and press ENTER.

Deleting contacts from the phone book

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to Search and press ENTER.

- 4. Enter the first few letters of the item and press **ENTER**, or simply press **ENTER**.
- 5. Scroll to the item to be erased and press **ENTER**.
- 6. Scroll to Erase and press ENTER.

Erase all contacts

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to Erase SIM or Erase phone and press ENTER.

If required, enter phone code. The factory-set default code is 1234.

Speed dial

A keypad button (1–9) can be used as a speed dial number for a contact in the phone book.

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
- 3. Scroll to Speed dial... and press ENTER.
- 4. Scroll to Select numbers and press ENTER.
- 5. Scroll to the digit of the keypad button for the speed dial number and press **ENTER**.

- Enter the first few letters of the item and press ENTER, or simply press ENTER.
- 7. Scroll to an item and press ENTER.
- 8. Hold **EXIT** depressed to leave the menu system.

Calling using speed dial

 Briefly press the required keypad button, followed by ENTER.

i note

It takes a short time before speed dialling becomes available after the phone has been activated.

To use the speed dial function **Speed dial...** must be activated in the **Phone book...** menu, see page 259.

Calling from the phone book

- 1. Press MENU.
- 2. Scroll to Phone book... and press ENTER.
 - > All contacts in the phone book memory are displayed. The number of contacts displayed can be reduced by entering part of the contact's name.
- 3. Scroll to a contact and press ENTER.



i NOTE

10

Press ENTER to dial.

i) NOTE

Hold in the required letter/button in the keypad for about 2 seconds to reach the corresponding letter in the phone book.

Functions during a call

Several functions are available during a call. Some functions can only be used when a call is on hold.

Press **MENU** or **ENTER** during a call to access the In-call menu and scroll to one of the following alternatives:

- 1. Mute microphone/Microphone on Mute mode.
- 2. Hold/Resume Put a call on hold or resume a call.
- 3. Phone book Show phone book.
- 4. Join Conference calling (available if more than two parties are connected)
- Swap Switch between two calls (available if up to three parties are connected).

SMS - Short Message Service

Reading SMS

1. Press MENU.

- 2. Scroll to Messages... and press ENTER.
- 3. Scroll to Read and press ENTER.
- 4. Scroll to a message and press ENTER.
 - > The message text is shown in the display. Additional selections can be made by pressing ENTER. Hold EXIT depressed to leave the menu system.

Writing and sending

- 1. Press MENU.
- 2. Scroll to Messages... and press ENTER.
- 3. Scroll to Write new and press ENTER.
- 4. Enter text and press **ENTER**.
- 5. Scroll to Send and press ENTER.
- 6. Enter a phone number and press ENTER.

IMEI number

To block the phone, you must provide your network operator with the phone's IMEI number. This is a 15 digit serial number that is programmed into the phone. Dial *#06# to show this number in the display. Write it down and keep it in a safe place.

Specifications

Output	2 W
SIM card	Small
Memory entries	250 ^A
SMS (Short Message Serv- ice)	Yes
Data/Fax	No
Dualband (900/1800 MHz)	Yes

^A In the phone, plus the number of memory spaces that are available on the SIM card.

Menu structure – phone*

10

Phone menu

1.

2.

Call register... 1.1. Last 10 missed calls 1.2. Last 10 received calls 1.3. Last 10 dialled calls 1.4. Erase list... 1.4.1. All calls 1.4.2. Missed calls 1.4.3. Received calls 1.4.4. Dialled numbers 1.5. Call duration... 1.5.1. Last call 1.5.2. Call count 1.5.3. Total time 1.5.4. Reset timers Phone book... 2.1. Search 2.2 New contact 2.3. Copy all... 2.3.1. SIM to phone 2.3.2. Phone to SIM

2.4.1. Active 2.4.2. Select numbers Erase SIM 2.5. 2.6. Erase phone 2.7. Memory status 3. Messages... 3.1. Read 3.2. Write new Message settings... 3.3. 3.3.1. SMSC number 3.3.2. Validity time... 3.3.3. Message type... Call options... 4 4.1. Send my number 4.2. Call waiting 4.3. Automatic answer 4.4. Auto re-dial 4.5 Voice mail number 4.6 Diversions... 4.6.1. All calls

2.4.

Speed dial...

	4.6.2.	When busy	
	4.6.3.	Not answered	
	4.6.4.	Not reachable	
	4.6.5.	Fax calls	
	4.6.6.	Data calls	
	4.6.7.	Cancel all	
Chang	ge phon	е	
5.1.	Carphone		

- 5.2. Add phone
- 5.3-7. Added phones¹

i NOTE

5.

6.

The menu above only applies to cars with Bluetooth $^{\rm TM}$ handsfree.

Phone	Phone settings		
6.1.	Network selection		
	6.1.1.	Automatic	
	6.1.2.	Manual select	
6.2.	SIM security		
	6.2.1.	On	
	6.2.2.	Off	

¹ A maximum of 5 phones.



Menu structure – phone*

10

6.2.3. Automatic
6.3. Edit PIN code
6.4. Sounds and volume...
6.4.1. Ring volume
6.4.2. Ring signals...
6.4.3. Mute radio
6.4.4. Message beep
6.5. IDIS
6.6. Reset phone settings

Description of menu options

1. Call register

1.1. Last 10 missed

List of missed calls. You can choose to call, erase or store the number in the phone book.

1.2. Last 10 received

List of received calls. You can choose to call, erase or store the number in the phone book.

1.3. Last 10 dialled

List of dialled numbers. You can choose to call, erase or store the number in the phone book.

1.4. Erase list

Erase the lists found in the menus 1.1, 1.2 and 1.3 as below.

1.4.1.	All calls
1.4.2.	Missed calls
1.4.3.	Received calls
1.4.4.	Dialled numbers
Duratio	all duration on of all calls or of the most recent call. et the call timer, see menu 1.5.4.
1.5.1.	Last call
1.5.2.	Call count
1.5.3.	Total time
1.5.4	Reset timers

2. Phone book

2.1. Search Search for a name in the phone book.

2.2. New contact Store names and phone numbers in the phone book, see page 254.

2.3. Copy all Copy phone numbers and names from the SIM card to the phone memory.

- 2.3.1. SIM to phone
- 2.3.2. Phone to SIM

2.4. Speed dial A number stored in the phone book can be stored as a speed dial number.

2.4.1 Active

2.4.2 Select numbers

2.5. Erase SIM Erase the entire SIM card memory.

2.6. Erase phone Erase the entire phone memory.

2.7. Memory status

Shows how many positions are occupied in the SIM card and phone memory. The table shows how many of the total number of positions are occupied, e.g. 100 (250).

3. Messages

3.1. Read

Received text messages. Select whether to erase, forward, change or save the entire message or parts of it.

3.2. Write new

Write a message using the keypad. Choose whether to save or send it.

3.3. Message settings

Enter the number (SMSC number) of the message centre to which messages are to be transferred as well as how long they are to be saved at the message centre. Contact your network

Menu structure – phone*

operator for information on message settings. Normally, these settings should not be altered.

3.3.1. SMSC number

3.3.2. Validity time...

3.3.3. Message type...

4. Call settings

4.1. Send my number

Displays or hides your phone number to/from the person you call. Contact your network operator regarding ex-directory numbers.

4.2. Call waiting

Be alerted during a phone call that there is another incoming call.

4.3. Auto answer Automatically answers incoming calls.

4.4. Auto redial Automatically calls a previously engaged number.

4.5. Voice mail number Stores voice mail number.

4.6. Call divert

Choose when and what type of calls are to be diverted to a specified phone number.

4.6.1. All calls

This setting only applies during the call in progress. 4.6.2 When busy4.6.3. Not answered4.6.4. Not reachable4.6.5. Fax calls4.6.6. Data calls4.6.7. Cancel all

5. Change phone

5.1. Car phone Select the built-in phone.

5.2. Add phone Add mobile phones to the list Added phones.

5.3-7. Added phones Select to connect to one of the added phones (up to 5 phones).

(i) NOTE

The menu above only applies to cars with $\mathsf{Bluetooth^{\mathsf{TM}}}$ handsfree.

6. Phone settings

6.1. Selecting network Choose a network automatically or manually. The selected network is shown in the display in the phone's basic mode.

6.1.1. Automatic

6.1.2. Manual select

6.2. SIM security Select if the PIN code should be on, off or if the phone should automatically give the PIN code.

6.2.1. On

- 6.2.2. Off
- 6.2.3. Automatic

6.3. Edit PIN code Change PIN code. Write down and save the code in a safe place.

6.4. Sounds and volume

6.4.1. Ring volume

Adjust the ring tone volume.

6.4.2. Ring signals...

There are seven different ring tones.

6.4.3. Mute radio

The radio can be switched off/on.

6.4.4. Message beep

6.5. IDIS

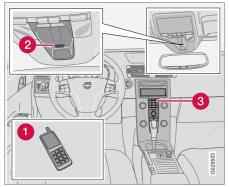
If the IDIS function is deactivated, incoming calls are not delayed, regardless of the driving situation.

6.6. Reset phone settings Reset the system's factory settings.



Bluetooth handsfree*

General



System overview.

- Mobile phone
- 2 Microphone
- 3 Centre console

Bluetooth™

A mobile phone equipped with BluetoothTM can be connected wirelessly to the audio system. The audio system then works handsfree, with the option to control a range of the mobile phone's functions remotely. The microphone is fitted in the roof console (2). The mobile phone can always be operated by its own keys irrespective of whether or not it is connected.

Only a selection of mobile phones are fully compatible with the handsfree function. Volvo recommends that you seek assistance from an authorised Volvo dealer or visit www.volvocars.com for information on compatible phones.

Menus and controls

The menus are navigated using the control panel in the centre console (3), see page 252.

Remember

The menus are controlled from the centre console and the steering wheel keypad. For general information on menus, see page 257.

ΝΟΤΕ

If the car is equipped with both BluetoothTM handsfree and built-in phone then there is an additional menu in the phone menu, see page 257.

Activate/deactivate

A short press on **PHONE** activates the handsfree function. The text **PHONE** at the top of the display shows that it is in phone mode. The symbol **constant** shows that the handsfree function is active. One long press on **PHONE** deactivates the handsfree function and disconnects a connected phone.

Connect mobile phone

A mobile phone is connected in different ways depending on whether or not it has been connected previously. To connect a mobile phone for the first time, follow the instructions below:

Alternative 1 - via the car's menu system

- Make the mobile phone detectable/visible via BluetoothTM, see the mobile phone's manual or www.volvocars.com.
- 2. Activate the handsfree function with **PHONE**.
 - > Menu option Add phone appears on the display. If one or more mobile phones have already been registered then these are also shown.
- 3. Select Add phone.
 - > The audio system searches for mobile phones in the vicinity. The search takes approximately 30 seconds. The mobile phones detected are specified with their respective BluetoothTM name in the display. The handsfree function's BluetoothTM name is shown in the mobile phone as My Volvo Car.



Bluetooth handsfree*

- 4. Choose one of the mobile phones in the audio system display.
- 5. Enter the number series shown in the audio system display via the mobile phone key-pad.

Alternative 2 - via the phone's menu system

- 1. Activate the handsfree function with **PHONE**. If there is a phone connected, disconnect the connected phone.
- Search with the phone's Bluetooth[™], see the mobile phone's manual.
- 3. Select **My Volvo Car** in the list of units detected in your mobile phone.
- 4. Enter the PIN code '1234' into the mobile phone when prompted for the PIN code.
- 5. Select to connect to My Volvo Car from the mobile phone.

The mobile phone is registered and connected automatically to the audio system while the text **Synchronising** is shown in the display. For more information on how mobile phones are registered, see page 262.

When the connection is established the symbol is shown and the mobile phone's BluetoothTM name is shown in the display. Now the mobile phone can be controlled from the audio system.

To call

- 1. Make sure that the text **PHONE** is shown at the top of the display and that the symbol is visible.
- 2. Dial the number or use the phone book, see page 263.
- 3. Press ENTER.

The call is interrupted with **EXIT**.

Disconnecting the mobile phone

Automatic disconnection takes place if the mobile phone moves out of the audio system's range. For more information on connection, see page 262.

Manual disconnection takes place by deactivating the handsfree function with one long press on **PHONE**. The handsfree function is also deactivated when the engine is switched off or when a door is opened¹.

When the mobile phone has been disconnected an ongoing call can be continued with the mobile phone's built-in microphone and speaker.

ΝΟΤΕ

Some mobile phones require that the changeover from handsfree is confirmed from the phone's keypad.

Making and receiving calls

Incoming call

Calls are accepted with **ENTER** even if the audio system is in CD or FM mode for example. Refuse or end with **EXIT**.

Auto answer

The automatic answer function means that calls are accepted automatically. Activate/ deactivate under Phone Menu... \Rightarrow Call options... \Rightarrow Automatic answer.

In-call menu

Press **MENU** or **ENTER** during an ongoing call to access the following functions:

- Mute microphone audio system microphone is muted.
- Transfer call to mobile the call is transferred to the mobile phone.

¹ Applies to Keyless Drive.



Bluetooth handsfree*

(i) NOTE

With certain mobile phones the connection is terminated when the privacy function is used. This is normal. The handsfree function asks if you want to reconnect.

• Phone book – searching in the phone book.

i note

A new call cannot be started during an ongoing call.

Audio settings

Call volume

Call volume can be adjusted during calls. Use the steering wheel keypad.

Audio system volume

In phone mode (PHONE) the audio system volume can be adjusted as usual with VOLUME.

The audio source can be automatically muted for incoming calls under Phone Menu... → Phone settings... → Sounds and volume... → Mute radio.

Ring volume

Go to Phone Menu... \rightarrow Phone settings... \rightarrow Sounds and volume... \rightarrow Ring volume and adjust with \blacktriangle / \bigtriangledown on the navigation button.

Ring signals

The handsfree function has integrated ring signals that can be selected under Phone Menu... \rightarrow Phone settings... \rightarrow Sounds and volume... \rightarrow Ring signals... \rightarrow Ring signal 1 etc.

i note

The connected mobile phone's ring signal is not deactivated when one of the handsfree system's integrated signals is used.

In order to select the connected phone's ring signal², go to Phone Menu... \rightarrow Phone settings... \rightarrow Sounds and volume... \rightarrow Ring signals... \rightarrow Use mobile phone signal.

More on registering and connecting

A maximum of three mobile phones can be registered. Registration is performed once per phone. After registration the mobile phone is in the list of added phones. Not more than one mobile phone can be connected at a time. Phones can be deregistered under Phone Menu...→ Bluetooth...→ Remove phone.

Automatic connection

When the handsfree function is active and the last mobile phone connected is in range it is connected automatically. When the audio system searches for the last phone connected its name is shown in the display. To change over to manual connection of another phone, press **EXIT**.

Manual connection

If you want to connect a mobile phone other than the last connected or change the connected mobile phone, proceed as follows:

Set the audio system in phone mode (PHONE) and follow the instructions on the display or change the connected mobile phone by using the menu system as described below.

The menu structure is available in two variants depending on whether the car only has

² Not supported by all mobile phones.

Bluetooth handsfree*

BluetoothTM or if the car also has a built-in phone.

- For cars with only Bluetooth[™] the connection is made under Phone Menu... → Bluetooth... → Change phone → Add phone or select one of the previously connected phones.
- For cars with built-in phone and Bluetooth[™] the connection is made under Phone Menu... → Change phone → Add phone or select one of the previously connected phones.

Phonebook

All use of the phone book presupposes that the text **PHONE** is shown at the top of the display and that the symbol is visible.

The audio system stores a copy of the phone book from each registered mobile phone. The phone book is copied automatically to the audio system during each connection. Deactivate the function under **Phone settings... → Synchronise phone book**. Searching for contacts is only performed in the connected mobile phone's phone book.

NOTE

If the mobile phone does not support copying of the phone book then List is empty is shown when copying is finished.

If the phone book contains a ringing caller's contact information then this is shown in the display.

Searching for contacts

The easiest way to search in the phone book is with long presses on the keys **2–9**. This starts a search in the phone book based on the key's first letter.

The phone book can also be reached with \bigtriangledown / \blacktriangle on the navigation button or with \checkmark / \triangleright on the steering wheel keypad. The search can also be performed from the phone book's Search menu under Phone book... \Rightarrow Search:

- 1. Enter the first few letters of the contact and press **ENTER**. Or simply press **ENTER**.
- 2. Scroll to a contact and press **ENTER** to call.

Voice recognition

The mobile phone's voice recognition function for dialling can be used by holding in **ENTER**.

ΝΟΤΕ

Only a selection of mobile phones are fully compatible with the voice recognition function. Volvo recommends that you contact an authorised Volvo dealer or visit www.volvocars.com for information on compatible phones.

Voice mail number

The number to the voice mail is changed under **Call options... → Voice mail number**. If no number is stored then this menu is reached with one long press on **1**. Press **1** for a long time to use the stored number.

Call lists

The call lists are copied to the handsfree function at each new connection and are then updated during the connection. Press **ENTER** to show the last dialled. Other call lists are available under **Call register...**

NOTE

Certain mobile phones show a list of the last dialled numbers in reverse order.

Inputting text

Input text using the keypad in the centre console. Press once for the key's first character,



Bluetooth handsfree*

10

twice for the second etc. Continue pressing for more characters, see the table on page 254.

A short press on **EXIT** deletes an input character. One long press on **EXIT** clears all input characters. \blacktriangle / \checkmark on the navigation button scrolls between the characters.

Menu structure - Bluetooth[™] handsfree

i NOTE

The menu for BluetoothTM handsfree is available in two variants. For cars with only BluetoothTM handsfree and for cars with built-in phone and BluetoothTM handsfree.

1. Call register...

- 1.1. Last 10 missed calls
- 1.2. Last 10 received calls
- 1.3. Last 10 dialled calls

2. Phone book...

- 2.1. Search
- 2.2. Copy fr. mobile phone

Bluetooth...

3.

- 3.1. Change phone
 - 3.1.1. Add phone
 - 3.1.2–6.Added phones³
- 3.2. Remove phone
- 3.3. Connect fr. mobile phone
- 3.4. Car Bluetooth info
- 4. Call options...
 - 4.1. Automatic answer
 - 4.2. Voice mail number
- 5. Phone settings...
 - 5.1. Sounds and volume...
 - 5.1.1. Ring volume
 - 5.1.2. Ring signals...
 - 5.1.3. Mute radio
 - 5.2. Synchronise phone book

Menu structure - Bluetooth[™] handsfree with built-in phone

1.	Call re	gister
	1.1.	Last 10 missed calls
	1.2.	Last 10 received calls
	1.3.	Last 10 dialled calls
2.	Phone	book
	2.1.	Search
	2.2.	Copy fr. mobile phone
3.	Blueto	oth
	3.1.	Remove phone
	3.2.	Connect fr. mobile phone
	3.3.	Car Bluetooth info
4.	Call or	otions
	4.1.	Automatic answer
	4.2.	Voice mail number
5.	Chang	je phone
	5.1.	Carphone
	5.2.	Add phone
	5.3–7.	Added phones ³

³ A maximum of 5 phones.



Bluetooth handsfree*

6. Phone settings...

6.1. Sounds and volume...

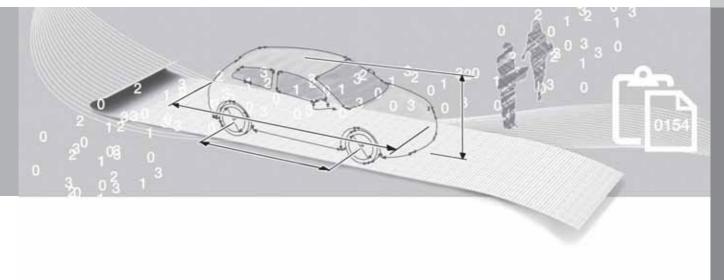
- 6.1.1. Ring volume
- 6.1.2. Ring signals...
- 6.1.3. Mute radio
- 6.2. Synchronise phone book

10

	Type designation	268		
1	Dimensions and weights	270		
	Engine specifications	273		
	Engine oil	274	പി	40
	Fluids and lubricants	276		
	Fuel	278	$\bigcirc \bigcirc$	22
	Wheel and tyres, dimensions and pressure	279	(0)(0)	
	Electrical system	280	\	
	Type approval	282		//
	Symbols in the display	283		

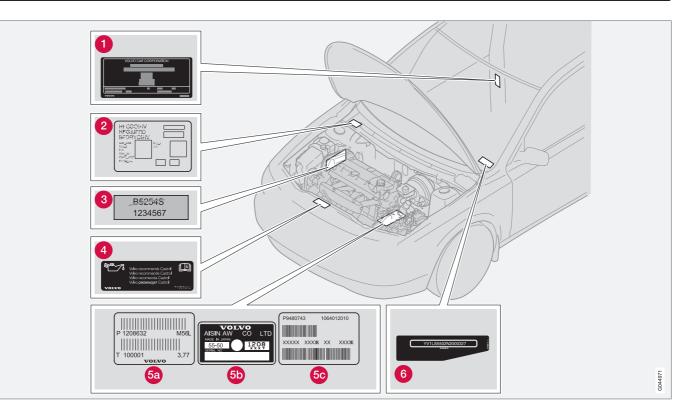
01 10 00 11

SPECIFICATIONS





Type designation



01 10 00 11

11

Type designation

Knowing the car's type designation, vehicle identification and engine numbers can facilitate all contact with a Volvo dealer regarding the car and when ordering spare parts and accessories.

 Type designation, vehicle identification number, maximum permissible weights, codes for colour and upholstery and type approval number.

S40 and V50: The label is visible when the right rear door is opened. C30 and C70: The label is visible when the right door is opened.

- 2 Label for parking heater.
- S Engine code, component and serial numbers.
- 4 Label for engine oil.
- **6** Gearbox type designation and serial number:
 - A manual gearbox
 - B, O automatic gearbox
- 6 The car's identification number (VIN Vehicle Identification Number).

Further information on the car is presented in the registration document.

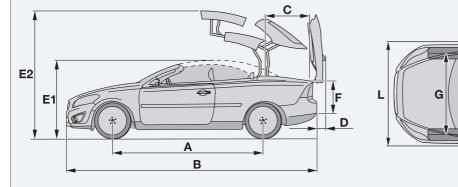
NOTE

The labels shown in the owner's manual are not provided as exact reproductions of those in the car. The purpose is to show their approximate appearance and location in the car. The information that applies to your car in particular is available on the label in question in your car.



Dimensions and weights

Dimensions



	Dimensions	mm
А	Wheelbase	2640
В	Length	4615
С	Load length, floor	850
D	Boot lid, raised	approx. 200
E1	Height	1400
E2	Height	approx. 2000

	Dimensions	mm
F	Load height with roof up	525
	Load height with roof down	265
G	Front track	1550
Н	Rear track	1560
Т	Load width, floor	960
J	Width	1836 (1851 ^A)

L	G	- K
		G045057

	Dimensions	mm
К	Width including door mirrors	2025
L	Width including folded-in door mirrors	1847

A with Keyless drive*

Dimensions and weights

Weights

Kerb weight includes the driver, the fuel tank 90% full and all fluids.

The weight of passengers and accessories, and towball load (when a trailer is hitched, see table) influences the payload and is not included in the kerb weight.

Permitted maximum load = Gross vehicle weight - Kerb weight.

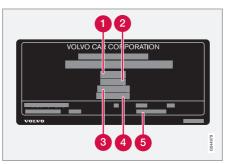
i ΝΟΤΕ

The documented kerb weight applies to cars in the standard version - i.e. a car without extra equipment or accessories. This means that for every accessory added the loading capacity of the car is reduced correspondingly by the weight of the accessory.

Examples of accessories that reduce loading capacity are the Kinetic/Momentum/ Summum equipment levels, as well as other accessories such as Towbar, Audio system, Auxiliary lamps, GPS, Fuel-driven heater, Carpets, Power seats, etc.

Weighing the car is a certain way of ascertaining the kerb weight of your own particular car.

The car's driving characteristics change depending on how heavily it is loaded and how the load is distributed.



For decal location, see page 268.

- Max. total weight
- 2 Max. train weight (car+trailer)
- 3 Max. front axle load
- 4 Max. rear axle load
- 6 Equipment level

Max. load: See registration document.

Max. roof load: 75 kg.

Towing capacity and towball load

 $\begin{pmatrix} 01 & 10 \\ 00 & 11 \end{pmatrix}$



Dimensions and weights

Maximum weight, braked trailer (kg)	Maximum towball load (kg)
1500	75
Maximum weight, unbraked trailer (kg)	Maximum towball load (kg)



Engine specifications

Overview

i NOTE

Not all engines are available in all markets.

Engine	Engine code ^A	Output (kW/rpm)	Output (hp/rpm)	Torque (Nm/ rpm)	No. of cylinders	Bore (mm)	Stroke (mm)	Swept volume (litres)	Com- pression ratio
T5	B5254T7	169/5000	230/5000	320/1500 - 5000	5	83	93.2	2.521	9.0:1
D3	D5204T5	110/3500	150/3500	350/15002750	5	81	77	1.984	16.5:1
D4	D5204T	130/3500	177/3500	400/1750-2750	5	81	77	1.984	16.5:1

A Engine code, component and serial number can be read on the engine, see page 268.

11



Engine oil

Adverse driving conditions

Adverse driving conditions can lead to abnormally high oil temperature or oil consumption. Below are some examples of adverse driving conditions.

- Check the oil level more frequently for long journeys:
- towing a caravan or trailer
 - in mountainous regions
 - at high speeds
 - in temperatures colder than -30 °C or hotter than +40 °C

The above also apply to shorter driving distances at low temperatures.

Choose a fully synthetic engine oil for adverse driving conditions. It provides extra protection for the engine.

Volvo recommends Castrol oil products.

IMPORTANT

In order to fulfil the requirements for the engine's service intervals all engines are filled with a specially adapted synthetic engine oil at the factory. The choice of oil has been made very carefully with regard to service life, starting characteristics, fuel consumption and environmental impact.

An approved engine oil must be used in order that the recommended service intervals can be applied. Only use a prescribed grade of oil for both filling and oil change, otherwise you will risk affecting service life, starting characteristics, fuel consumption and environmental impact.

Volvo Car Corporation disclaims all warranty liability if engine oil of the prescribed grade and viscosity is not used.

Volvo recommends that oil changes are carried out at an authorised Volvo workshop.



Engine oil

Engine oil grade

Engine	Engine code	Recommended oil grade	Volume, incl. oil filter (litres)
T5	B5254T7	Oil grade: ACEA A5/B5	approx. 5.8
D3	D5204T5	Viscosity: SAE 0W-30	approx. 5.9
D4	D5204T		approx. 5.9

For filling engine oil, see page 210.

(01 10 (00 11)



Fluids and lubricants

Overview

IMPORTANT

The recommended transmission fluid must be used to prevent damage to the gearbox. Do not mix with any other transmission fluid. If the transmission is topped up with a different fluid, contact a workshop nearby for servicing. Volvo recommends that you contact an authorised Volvo workshop.

Gearbox oil

Manual gearbox	Volume (litres)	Prescribed transmission fluid
M66	1.9	BOT 350M3

Automatic gearbox	Volume (litres)	Prescribed transmission fluid
AW55-51	7.7	JWS 3309
TF-80SC	7.0	AW1

Fluids

Fluid	System	Volume (litres)	Recommended oil grade
Coolant	T5, automatic gear- box	7.5	Coolant recommended by Volvo mixed with 50% water^A, see the packaging. The thermostat starts opening at 90 $^\circ \rm C$
	D3 and D4	8.5	



Fluids and lubricants

Fluid	System	Volume (litres)	Recommended oil grade
Refrigerant	Air conditioning	В	R134a (HFC134a)
			Oil: PAG
Brake fluid	Brake system	0.6	DOT 4+
Power steering fluid	Power steering	1.0-1.2	WSS M2C204-A or equivalent product with same specifications.
Washer fluid	all	6.5	Washer fluid recommended by Volvo - with frost protection during cold weather and below freezing point.
Fuel	Petrol engine	approx. 62	Petrol: see page 143
	Diesel engine	approx. 60	Diesel: see page 144

A Water quality must fulfil the standard STD 1285.1.

B Refrigerant quantity varies depending on engine variant. Volvo recommends that you contact an authorised Volvo workshop for the correct information.



11 Specifications

Fuel

Fuel consumption

There are several causes that can affect fuel consumption negatively. Examples of this are:

- The driver's driving style
- If the customer has specified wheels larger than those fitted as standard on the model's basic version, then resistance increases.
- High speed results in increased wind resistance
- Fuel quality, road and traffic conditions, weather and the condition of the car.

Even a combination of the above-mentioned examples can result in significantly improved consumption.

To bear in mind

Tips that the driver can use in order to reduce consumption:

- Drive gently and avoid unnecessary acceleration as well as braking too hard.
- Drive with the correct air pressure in the tyres and check this regularly select ECO tyre pressure for best results, see the tyre pressure table on page 279.
- Choice of tyres can affect fuel consumption - seek advice on suitable tyres from a dealer.

See further information and more advice on pages 13 and 140.

See page 143 for general information on fuel.



Wheel and tyres, dimensions and pressure

Approved tyre pressures

Engine	Tyre size	Speed (km/h)	Load, 1 - 3 persons		Max. load		
			Front (kPa) ^A	Rear (kPa)	Front (kPa)	Rear (kPa)	ECO pressure ^B
	215/55 R16 91W	0–160	210	210	250	250	250
	215/55 610 910	160+	260	210	280	260	-
T5	215/50 R17 91W	0–160	220	220	250	250	250
235/45 R17 94W 235/40 R18 91Y	160+	270	220	290	270	-	
	215/55 R16 91 W	0–160	230	210	250	250	250
D3		160+	260	210	280	260	-
D3 D4	215/50 R17 91W	0–160	240	220	250	250	250
51	235/45 R17 94W 235/40 R18 91Y	160+	270	220	290	270	-
Tempo	orary Spare Tyre	0–80	420	420	420	420	-

A In certain countries there is the "bar" unit beside the SI unit "pascal": 1 bar = 100 kPa. B Economical driving, see page 186

i NOTE

All engines, tyres or combinations of these are not always available in all markets.



Electrical system

General

The car has a voltage-regulated AC alternator. The electrical system is single-pole and uses the chassis and engine casing as a conductor. The battery capacity is dependent upon the equipment level in the vehicle. If the starter battery is replaced, therefore, you must ensure that you switch to a battery with the same capacity as the original battery (see the label on the battery).

Battery

Voltage (V)	Cold start capacity, CCA - Cold Cranking Amperes (A)	Reserve capacity (minutes)	Capacity (Ah)
10	590	100	60
12	760 ^A	120	70
12	700 ^B	135	80

A Cars equipped with High Performance audio system.

^B Cars equipped with diesel, keyless drive, Premium Sound audio system, fuel-driven heater or RTI.

Bulbs

Lighting	Output (W)	Туре
Dipped beam, halogen	55	H7 LL
Main beam, halogen	65	H9
Extra main beam, ABL	55	H7 LL
Front direction indicators	24	PY24W SV
Position/parking lamps, front	5	W5W LL BV

01 10 00 11

11

Electrical system

Lighting	Output (W)	Туре
Side marker lamps, front	5	WY5W LL
Fog lamps	35	H8
Side direction indicators, door mirrors	5	WY5W LL
Front courtesy lighting	3	T10 Socket W2.1x9.5d
Glovebox lighting	3	T10 Socket W2.1x9.5d
Vanity mirror lighting*	1.2	Socket SV5.5 Length 35 mm
Cargo area lighting	5	Socket SV8.5 Length 38 mm
Number plate lighting	5	C5W LL
Rear direction indicators	21	PY21WSV
Position lamps, rear	-	-
Brake light	-	-
Reversing lamp	6	H6W
Rear fog lamp	21	P21W LL



Type approval

Remote control key system

Country and region	
A, B, CY, CZ, D, DK, E, EST, F, FIN, GB, GR, H, I, IRL, L, LT, LV, M, NL, P, PL, S, SK, SLO	Certifies that this remote control key system conforms to
IS, LI, N, CH	the essential char- acteristic require-
HR	ments and other rel- evant regulations of directive 1999/5/EC.
ROK	Delphi 2003-07-15, Germany R- LPD1-03-0151
BR	Constantel Constantel Constantel
TW	ETC093LPD0155

Certification of the Keyless Drive system

Siemens VDO Automotive A.G. hereby certifies that this equipment type 5WK4 8952, 5WK48956, 5WK48812 conforms to the essential characteristic requirements and other relevant regulations of Directive 1999/5/EC.

11 Specifications

Symbols in the display

General

There are a variety of different symbols in the display in the car. The symbols are divided into warning, indicator and information symbols. Shown below are the most common symbols with their meanings and a reference to where in the manual further information can be found. For more information on symbols and text messages, see pages 50 and 54.

- Red warning symbol, illuminates when a fault has been indicated which could affect the safety and/or driveability of the car. An explanatory text is shown on the information display at the same time.

• Yellow information symbol, illuminates in combination with text in the information display, when a deviation in any of the car's systems has occurred. The yellow symbol information can also illuminate in combination with other symbols.

Symbols in the display

Indicator and warning symbols in the combined instrument panel

Symbol	Meaning	Page
\triangle	Warning	19, 32, 50, 53
ĩ	Information	50, 53, 160, 162
\bigcirc	Emissions system	50, 51
(AB5)	Fault in the 51, 52 ABS system	51, 52
O≩	Rear fog lamp	51

Symbol	Meaning	Page
	Stability sys- tem, DSTC*	51, 159, 160
00	Engine pre- heater (diesel)	51
	Low level in fuel tank	51
	Indicator sym- bol for trailer	52
(\mathbb{P})	Parking brake applied	52
×	Airbags - SRS	19, 52



 $\begin{pmatrix} 01 & 10 \\ 00 & 11 \end{pmatrix}$

11



Symbols in the display

Symbol	Meaning	Page
<u>~</u> ~	Low oil pres- sure	50, 52
4	Seatbelt reminder	16, 52
- •	Alternator not charging	52
1	Fault in brake system	52, 157
≣D	Main beam indicator	49

Symbol	Meaning	Page
	Left direction indicators	49
	Right direc- tion indicators	49

Other information symbols in the combined instrument panel

Symbol	Meaning	Page
T.>	Rain sensor*	65
CRUISE-ON	Cruise control*	66
Ť	Gear shift indicator*	-

Information symbols in the centre console display

Symbol	Meaning	Page
	Surround sound (only Premium Sound)	239
NEWS	News	243
PTY	Programme types	243
REG	Regional radio pro- grammes	244
4	Audio files	246
	Directory in CD disc	246
TPul	Traffic information	243
-	Phone*	260
*	Bluetooth [™] hands- free*	260



Symbols in the display

Information symbols in the roof console display

Symbol	Meaning	Page
	Seatbelt reminder	17
	Airbag, passenger seat, activated	22, 23
PASSENGER AIRBAG OFF	Airbag, passenger seat, deactivated	23



12 Alphabetical Index

A

A/C	
electronic climate control	90
ABS fault 51, 7	157
Active Bending Lights (ABL)	58
Active headlamps	58
Additional heater (Diesel)	95
	179 179
AF – automatic frequency update 2	244
Airbag activating/deactivating, PACOS driver's and front passenger side key switch off	20 22 21 22
AIRBAG	20
Airbag system	20
Air conditioning ECC general	88 86
Air distribution ECC	91 90
Air quality system, ECC	89
Air vents	87

Alarm	134
alarm indicator	134
alarm signals	135
arming	134
automatic alarm activation	135
deactivating a triggered alarm	135
disarming	135
RDS traffic warning	243
reduced alarm level	135
testing the alarm system	135
Alcolock	146
Antenna location, Keyless drive	128
Approach light, duration75,	120
setting	78
Audio, see also Sound	236
Audio volume	
phone 254,	262
phone/media player	262
programme types	245
ring signal, phone	262
Auto	
climate control settings	88
AUTO	
storing stations	241
Auto climate	88
Automatic car washes	198

Automatic gearbox	
manual gear positions (Geartronic)	154
towing and recovery	166
trailer 170,	171
Automatic locking	132
Automatic relocking	131
Autostart	150
Auto volume control	239
Auxiliary heater	95
Average fuel consumption	62

B

A . I I .

Bass speaker	238
Battery 217	', 280
changing the battery in the remote cor	1-
trol key	129
maintenance 207	', 217
overload	141
specifications	280
start assistance	169
symbols on the battery	217
warning symbols	217
Blind spot (BLIS)	163
Blind Spot Information System, BLIS 76	i, 163



Bluetooth	
handsfree 26	0
mute microphone 26	1
transfer call to mobile 26	1
Bluetooth®	
media 23	8
streaming audio 23	8
Boarding	
rear seat	9
Bonnet, opening 20	8
Boot lid	
driving with open boot lid 14	1
locking/unlocking 120, 13	0
Brake and clutch fluid 21	4
Brake light 6	0
Brakes	
Brakes anti-lock braking system, ABS 15	7
Diditoo	
anti-lock braking system, ABS 15	0
anti-lock braking system, ABS	0
anti-lock braking system, ABS	0 8 8
anti-lock braking system, ABS	0 8 8 0
anti-lock braking system, ABS	0 8 8 0
anti-lock braking system, ABS	0 8 8 0 7
anti-lock braking system, ABS	0 8 8 0 7

Bulbs, see Lighting	219,	280
с		
Calls		
functions during a call		
incoming		261
operation volume in phone		261 254
Car care		198
Car care, leather upholstery		200
Cargo area cargo separator electrical socket		114 114 116
loading assistance		114
load retaining eyelets		115
ski hatch		116
Car settings		78
Car upholstery		200
Car wash		198
Catalytic converter recovery		143 166
CD discs		112
storage compartment		
CD functions		246

Checking and topping up the coolant	213
Checking the engine oil level	210
Checks	
fluids and oils	210
Children	33
child seats and side airbags	24
location in the car	33
location in the car, table	34
safety	33
Child seat	33
Child seats	33
ISOFIX fixture system for child seats size classes for child seats with the ISO-	39
FIX fixture system	39
Cigarette lighter socket	
front seat	56
Cleaning	
automatic car washes	198
car wash	198
rims	198
seatbelts	201
upholstery	200
Climate control	
general	86
personal preferences	77



Climate control settings

auto 8	8
Clock, adjustment 7	7
Clutch fluid, checking & topping up 214	4
Coat hanger 11	1
Cold start	
Collision crash mode	2
Colour code, paint 202	2
Combined instrument panel 4	9
Compass	3
calibration73	3
setting the zone	3
Condensation in headlamps 19	8
Coolant 21	3
Cooling system 14	0
Crash, see Collision 32	2
Cruise control	6

D
Deadlock
deactivation 132 temporary deactivation
Deadlocks 132
Diesel 144
Diesel: engine preheater 51
Diesel particle filter 144
Dipstick, electronic 212
Direction indicators
Disc text 247
Disengaging the gear selector inhibitor 156
Display, messages 54
Display lighting 58
Dolby Surround Pro Logic II 235, 239
Door mirrors
Driver's door control panel 48, 71
Driving
cooling system 140
economical
in water
with trailer

Driving in water	140
Driving with a trailer	
towball load	271
towing capacity	271
DSTC, see also Stability control system	159
DSTC, see also Stability system	
symbol	. 51
During a call, functions	256

E

Economical driving	140
ECO pressure	
table 186,	279
Electrical socket	
cargo area	116
centre console	56
Electrical system	280
Emergency calls	251
Emergency equipment	
warning triangle	187
Emergency puncture repair	192
Emission control	
fault indicator	51



12

Engine block heater
fuel-driven
Engine compartment 208
coolant
oil
Engine oil
adverse driving conditions
capacities
filter 210
oil grade 274
oil pressure 52
Engine specifications 273
Entry, keyless
Environmental labelling, FSC, owner's
manual 13
EON - Enhanced Other Networks 245
Equalizer 239
Error messages 105
Error messages in BLIS 164
Expectant mothers, seatbelt 17
External dimensions 270
Extra mats 102

F
Fan
ECC
Fast-wind 247
First aid equipment 189
Floor mats 102
Fluids, capacities 276
Fluids and oils 210, 276
Fluids and oils, checks, engine compart-
ment 210
Fluids and oils general 210
Fog lamps
rear 58
Fog lamps, on/off 58
Frequency update, automatic 244
FSC, environmental labelling 13
Fuel
CO ₂ emissions 278
consumption 278
fuel consumption, display 62
fuel economy 186
fuel filter 144
level indicator 51

parking heater	92
refuelling	142
Fuses	225
box in the engine compartment	226
changing	225
general	225
relay/fuse box in the passenger com-	
partment	229

G

Gearbox	
manual	153
Gear selector inhibitor	155
Geartronic	154
General information on fuel	143
Glovebox	111
locking	122
Gross vehicle weight	271

H	
Handbrake	70
Hazard warning flashers	69



Headlamp pattern adjustment

Active Bending Lights (ABL)	179
Headlamps	57
Heating	
front seats	90
rearview and door mirrors	90
rear window	90
High-pressure headlamp washing	64
HomeLink [®]	80
Home safe lighting 61,	75
setting	78

IDIS – Intelligent Driver Information Sys- tem	251
Ignition keys	151
IMEI number	
Immobiliser 120, 1	151
Inflatable Curtain	26
Information display	54
Information on fuel	143
Infotainment system	
menus 2	234

Inlaid mats	102
Instrument lighting	58
Instrument overview	
left-hand drive	
right-hand drive	46
Interior lighting, see Lighting	107
Interior rearview mirror	73
automatic dimming	73
Intermittent wiping	64
iPod®, connection	236
ISOFIX fixture system for child seats	39

Jack..... 187

Kerb weight..... 271

keyless lock and ignition system...... 126 remote control key..... 120 Key blade...... 121, 127 active locks...... 123

K

Key

Keyless drive 126, 152, 282 starting the car 152
Keyless entry 78
Keyless start (keyless drive) 126
Keypad in the steering wheel 66, 68, 252
Key positions 150
Kick-down
automatic gearbox 155

L				
L.				
н.				

Lambda-sond 143
Leather upholstery, washing instructions 200
Lighting
Active Xenon headlamps 58
approach light, duration 75, 120
automatic lighting 108
automatic lighting, dipped beam 57
bulbs, specifications 280
dipped beam 57
display lighting 58
front fog lamps 58
headlamp levelling 57
home safe lighting 61, 75
in passenger compartment 107

12



lighting panel, passenger compart- ment
Loading general
load capacity 178
load retaining eyelets 115
ski hatch 116
Load retaining eyelets 115

Lockingunlocking	
Locking/unlocking	130
inside	131
outside	130
Locks	
locking	130
Lubricants	276
Lubricants, capacities	276

M

Main/dipped beam, see Lightning	. 57
Main beam	
flashing	. 61
Main beam "flash"	. 61
Maintenance	207
rustproofing	203
self-maintenance	207
Making calls 253,	261
Manual gearbox	153
towing and recovery	166
Manual gear positions (Geartronic)	154
Max. roof load	271

Memory function in seats
Menus
audio system 234
Menu structure
media player 249
phone, menu options 258
phone, overview 257
Messages in BLIS 164
Messages in the information display 54
Meters in the combined instrument panel
fuel gauge 49
outside temperature gauge 49
speedometer 49
tachometer 49
trip meter 49
Misting
attending to the windows
condensation in headlamps 198
removing with defroster function
timer function 89
Mobile phone
connect
handsfree 260
register phone 260



	_
News	243

0

N

Oil, see also Engine oil 210, 274
Oil level low 210
One-key dial 255
Owner's manual, environmental labelling. 13
Oxyhydrogen gas 169

P

PACOS 2	22
PACOS, switch 2	22
Paintwork	
colour code 20)2
damage and touch-up 20)2
Parking assistance 16	51
parking assistance sensors 16	62
Parking brake 52, 7	'0

Parking heater	
battery and fuel	92
general	92
parking on a hill	92
symbols and display messages	93
time setting	94
Passenger compartment filter	86
Passenger compartment heater	
fuel-driven	92
Personal preferences	77
approach light, duration	78
auto blower adjust	77
automatic locking	78
doors unlock	78
home safe lighting	78
keyless entry	78
lock confirm. light	78
recirculation timer	77
unlock confirm. light	78
Petrol grade	143
Phone	
calling from the phone book	255
connect	262
controls	252
entering text	254
handsfree	260
incoming calls	261

making calls	261
on/off	253
one-key dial	255
phone book	263
phone book, shortcut	263
receiving a call	261
register phone	260
standby, standby mode	253
traffic safety	252
Phone book	
handling numbers	254
Phone system	251
Polishing	199
Power seat	98
Power steering fluid, checking and topping	
up	215
Power windows	71
passenger seat	72
Privacy locking	124
Programme type	244
PTY – Programme type	244
Puncture, see Tyres 187,	190
Putting calls on hold	253



12

R

Radio	
EON 2	245
frequency update 2	244
news 2	243
programme types 2	242
radio settings 2	241
radio stations 2	241
REG 2	244
Radio text 2	244
Rain sensor	65
Random, CD and audio files 2	247
RDS functions	242
resetting 2	245
Reading lamps, see Lighting 1	07
Rear seat	
boarding	99
Rearview and door mirrors	
automatic retracting/extending 75,	78
compass	73
door	75
electrically retractable	75
interior	73
Recirculation	
ECC	89

Recommended child seats	. 33
Reduced guard settings	. 78
Refrigerant	. 86
Refuelling	
fuel cap	142
fuel filler flap, electrical opening	142
fuel filler flap, manual opening	142
refuelling	142
Refusing a call	253
REG - Regional radio programmes	244
Relay/fuse box: see Fuses	225
Remote control	120
replacing the battery	129
Remote control, HomeLink [®]	
programmable	. 80
Remote control key	151
battery replacement	129
detachable key blade	121
functions	120
Remote control key system, type appro-	
val	282
Resetting the door mirrors	. 75
Reverse gear inhibitor	153
J 1 1 1	

Rims	
cleaning	198
Roll-over protection	29
Roof	
error messages	105
hatch cover	104
lowering	103
opening and closing	104
Roof load, max. weight	271
ROPS (Roll Over Protection System) (Roll-	-
over protection)	29
Rustproofing	203

S

Safety	
safety systems, table	30
Scan	
CD and audio files	247
radio stations	242
Seatbelt	
pregnancy	17
seatbelt guide	18
seatbelt tensioner	18
Seatbelt reminder	17



12 Alphabetical Index

Seatbelts
Seats
manual setting
power seat
Service programme
Side airbags 24
Side airbag SIPS 24
SIM card 251
SIPS bags 24
Ski hatch 116
SMS 256
read 256
write 256
Soot filter 54, 145
Soot filter full 145
Sound
audio settings 236, 238
audio source 236
volume 236
Spare wheel 187
temporary spare 185, 187
Spin control 159
SRS system
general 20

Stability and traction control system 159
Stains 200
Standby, phone 253
Start assistance 169
Starting the engine 150 keyless drive 126, 152
Steering lock 150
Steering wheel cruise control
Stone chips and scratches 202
Storage compartment
Storage spaces in the passenger compart-
ment 110
Storing stations, manual and automatic 241
Streaming audio 238
Subwoofer
Surround 235, 239
Symbols

Symbols and display messages	
parking heater	93

T

Tank volume	276
Technical data, engine	273
Temperature passenger compartment, electronic cli-	
mate control	. 90
Testing the alarm system	135
Timer ECC	. 89
Tools	187
Towbar, see Towing equipment	172
Towing	166
towing eye	167
Towing capacity	271
Towing equipment	172
installation	174
removing	176
specifications	173
Towing eye	167
TP – Traffic information	243



12

Traffic information	243
Trailer	170
cable	172
Trip computer	62
Tuning Radio	241
Type approval, remote control key sys-	
tem	282
Type designation	268
Tyres	
direction of rotation	185
driving characteristics	182
general	182
maintenance	182
pressure 186,	279
puncture repair	192
specifications	182
speed ratings	182
tread wear indicators	183
winter tyres	185

U

Unlocking	127, 130
settings	
USB, connection	236

. 87
172
236
239
236

W

V

Warning lamp
stability and traction control system 159
Warning symbol, airbag system 19
Warning triangle 187
Washer fluid, filling 213
Washers
headlamps64
washer fluid, filling 213
windscreen 64
Water and dirt-repellent coating 76
Water-repellent surface, cleaning 200
Waxing 199
Weights
kerb weight 271

Wheels

changing	190
installation	191
removal	190
rims	184
snow chains	184
spare wheel	187
Whiplash injury	27
WHIPS	
child seat/booster cushion	27
whiplash injury	27
Wind deflector	106
Windscreen wipers	64
rain sensor	65
Winter tyres	185
Wiper blades	216
cleaning	216
replacing, windscreen	216



Volvo. for life

VOLVO

Volvo Car Corporation TP 13980 (English Int.), AT 1146, Printed in Sweden, Göteborg 2011, Copyright @ 2000-2011 Volvo Car Corporation