

Owner's Manual

In-car safety

There is an In-car safety & Quick Reference Guide found in your car which contains some quick reference concerning safety issues.

Make sure you keep this Reference Guide readily available for all occupants to review.

Gas station reference

Fuel

• 2.5-liter non-turbo models

Use only unleaded gasoline with an octane rating of 87 AKI or higher.

• 2.5-liter turbo models (Aero)

Use premium unleaded gasoline with an octane rating of 91 AKI or higher. If premium unleaded gasoline is not available, regular unleaded gasoline with octane rating of 87 AKI or higher may be temporarily used. For optimum engine performance and driveability, it is required that you use premium grade unleaded gasoline.

Fuel octane rating

This octane rating is the average of the Research Octane and Motor Octane numbers and is commonly referred to as the Anti Knock Index (AKI). Refer to "Fuel" section in this manual.

Fuel capacity

15.9 US gal (60 liters, 13.2 Imp gal)

Engine oil

Use only API classification SM with the words "ENERGY CON-SERVING" and the ILSAC certification mark (starburst mark) displayed on the container.

Engine oil capacity

4.2 US qt (4.0 liters, 3.5 Imp qt)

Tire size		P205/55R16 89V	215/45R17 91W	
Wheel size		16 x 61/2 JJ	17 x 7 JJ	
Pressure	Front	32 psi (220 kPa, 2.2 kgf/cm ²)	33 psi (230 kPa, 2.3 kgf/cm ²)	
	Rear	29 psi (200 kPa, 2.0 kgf/cm ²)	32 psi (220 kPa, 2.2 kgf/cm ²)	
Temporary spare tire	Size	T135/	/70 D16	
	Pressure	60 psi (420 kPa, 4.2 kgf/cm ²)		

Cold tire pressure

NOTE:

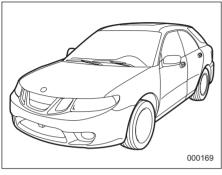
Adjust the tire pressure to 36 psi (250 kPa, 2.5 kgf/cm²) when driving the vehicle with five people and cargo inside and at speeds exceeding 99.4 mph (160 km/h).

Saab Automobile AB, Trollhättan, Sweden

US/CA MY2006 Ordering nr. 80 33 46. Printed in Sweden on chlorine-free paper 2005-09. © Copyright Saab Automobile AB, 2005. Information and illustrations in this manual are based on the spe

All information and illustrations in this manual are based on the specifications that were available at the time of printing. Model variants, technical data and equipment vary from market to market, and may be altered without prior notice.

Note that illustrations in this manual can depict cars fitted with extra equipment. Your Saab dealer will be pleased to inform you of the exact specifacations that apply to your market.



Introduction

reference.

This manual provides practical guidance on driving and caring for your Saab 9-2X. Although this manual describes the most important differences between model variants, it does not specify the equipment or features included on individual models. Importation and distribution of Saab automobiles, spare parts and accessories are handled exclusively by Saab Cars USA, Inc. in the United States and by General Motors of Canada Limited in Canada. We recommend that you read through the manual before taking the car out for the first time and keep it in the car for future

A list of content is given at the beginning of each section of the manual, and there is

also a comprehensive index at the back of the book.

Supplied with the car is a Warranty and Service Record booklet which contains important warranty information and specifies the regular maintenance to be carried out. Also included is a Quick Reference Guide.

Since the policy at Saab is one of continual improvement, we retain the right to incorporate modifications and to alter specifications during production without prior notice.

If you have any questions concerning your car, its equipment, the warranty conditions, etc., your Saab dealer will be pleased to help, or you may call the Saab Customer Assistance Center in the U.S. at 1-800-955-9007 or email them at saabcrm@saabusa.com. In Canada, please contact the Saab Customer Assistance Center at 1-800-263-1999. Enjoy the road ahead! Saab Automobile AB

Saab Automobile AB does not accept liability for any damage caused by the fitting of spare parts, exchange parts or accessories that are not approved by Saab Automobile AB.

* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Warranties

Warranties for U.S.A.

All Saab vehicles distributed by Saab of America, Inc. and sold at retail by an authorized Saab dealer in the United States come with the following warranties:

- Saab Limited Warranty
- Emission Control Systems Warranty
- Emissions Performance Warranty

All warranty information, including details of coverage and exclusions, is in the "Warranty and Maintenance Booklet". Please read these warranties carefully.

Warranties for Canada

All Saab vehicles distributed by Saab Canada, Inc. and sold at retail by an authorized Saab dealer in Canada come with the following warranties:

- · Saab Limited Warranty
- Anti-Corrosion Warranty
- Emission Control Warranty

All warranty information, including details of coverage and exclusions, is in the "Warranty and Maintenance Booklet". Please read these warranties carefully. ■ HID headlights *

High-intensity-discharge (HID) headlights contain mercury. For that reason, it is necessary to remove HID headlights before vehicle disposal. Once removed, please reuse, recycle or dispose of the HID headlights as hazardous waste.

Ask your Saab dealer to check whether your vehicle is equipped with HID headlights. How to use this owner's manual

■ Using your Owner's manual

Before you operate your vehicle, carefully read this manual. To protect yourself and extend the service life of your vehicle, follow the instructions in this manual. Failure to observe these instructions may result in serious injury and damage to your vehicle.

This manual is composed of fourteen chapters. Each chapter begins with a brief table of contents, so you can usually tell at a glance if that chapter contains the information you want.

Chapter 1: Seats, seatbelts and SRS airbags

This chapter informs you how to use the seat and seatbelt and contains precautions for the SRS airbags.

Chapter 2: Keys and doors

This chapter informs you how to operate the keys, locks and windows.

Chapter 3: Instruments and controls

This chapter informs you about the operation of instrument panel indicators and how to use the instruments and other switches.

Chapter 4: Climate Control

This chapter informs you how to operate the climate control.

- CONTINUED -

Chapter 5: Audio

This chapter informs you how to operate your audio system.

Chapter 6: Interior equipment

This chapter informs you how to operate interior equipment.

Chapter 7: Starting and operating

This chapter informs you how to start and operate your Saab.

Chapter 8: Driving tips

This chapter informs you how to drive your Saab in various conditions and explains some safety tips on driving.

Chapter 9: In case of emergency

This chapter informs you what to do if you have a problem while driving, such as a flat tire or engine overheating.

Chapter 10: Appearance care

This chapter informs you how to keep your Saab looking good.

Chapter 11: Maintenance and service

This chapter informs you when you need to take your Saab to the dealer for scheduled maintenance and informs you how to keep your Saab running properly.

Chapter 12: Specifications

This chapter informs you about dimensions and capacities of your Saab.

Chapter 13: Consumer information and Reporting safety defects

This chapter informs you about uniform

tire quality grading standards and reporting safety defects.

Chapter 14: Index

This is an alphabetical listing of all that's in this manual. You can use it to quickly find something you want to read.

■ Safety warnings

You will find a number of WARNINGs, CAUTIONs and NOTEs in this manual. These safety warnings alert you to potential hazards that could result in injury to you or others.

Please read these safety warnings as well as all other portions of this manual carefully in order to gain a better understanding of how to use your Saab vehicle safely.

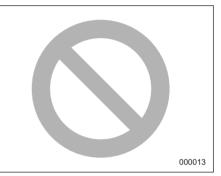
A WARNING indicates a situation in which serious injury or death could result if the warning is ignored.

A CAUTION indicates a situation in which injury or damage to your vehicle, or both, could result if the caution is ignored.

NOTE

A NOTE gives information or suggestions how to make better use of your vehicle.

Safety symbol



You will find a circle with a slash through it in this manual. This symbol means "Do not", "Do not do this", or "Do not let this happen", depending upon the context.

Vehicle symbols

There are some of the symbols you may see on your vehicle.

Symbol	Name
\triangle	CAUTION
0	Power door lock and unlock
\mathbf{X}	Passenger's windows lock and unlock
	Fuel
却	Front fog lights
P€	Parking lights
	Hazard warning flasher
2	Cigarette lighter
	Engine hood
#	Seat heater

Symbol	Name
	Child restraint top tether an- chorages
×	Child restraint lower anchor- ages
þ	Horn
A	Windshield wiper deicer
$\overline{\nabla}$	Wiper intermittent
$\langle \! \! \! \! \rangle$	Windshield wiper and wash- er
ŝ	Rear window wiper and washer
- <u>Ö</u> -	Lights
EDQE	Parking lights, tail lights, li- cense plate light and instru- ment panel illumination
≣D	Head lights
Ĵ.	Illumination brightness

Symbol	Name
*	Fan speed
نې ا	Instrument panel outlets
فنتزه	Instrument panel outlets and foot outlets
فسرد	Foot outlets
(III)	Windshield defroster and foot outlets
¥#	Windshield defroster
[]]]	Rear window defogger/Out- side mirror defogger
Ē	Air recirculation
Ś	Outside air
47.	Engine oil
Ĥ	Washer
0	Door lock (transmitter)

Symbol	Name
ſ	Door unlock (Transmitter)

Safety precautions when driving

Seatbelt and SRS airbag

- All persons in the vehicle should fasten their seatbelts BEFORE the vehicle starts to move. Otherwise, the possibility of serious injury becomes greater in the event of a sudden stop or accident.
- To obtain maximum protection in the event of an accident, the driver and all passengers in the vehicle should always wear seatbelts when the vehicle is moving. The SRS (Supplemental Restraint System) airbag does not do away with the need to fasten seatbelts. In combination with the seatbelts, it offers the best combined protection in case of a serious accident. Not wearing a seatbelt increases the chance of severe injury or death in a crash even when the vehicle has the SRS airbag.
- The SRS airbags deploy with considerable speed and force. Occupants who are out of proper position when the SRS airbag deploys could suffer very serious injuries. Because the SRS airbag needs enough space for deployment, the driver should always sit upright and well back in the seat as far from the steering wheel as practical while still maintaining full vehicle control and the front passenger should move the seat as far back as possible and sit upright and well back in the seat.

Carefully read the sections "Seatbelts" and "*SRS airbag (Supplemental Restraint System airbag)" in chapter 1 of this owner's manual for instructions and precautions concerning the seatbelt system and SRS airbag system.

Child safety

WARNING

- Never hold a child on your lap or in your arms while the vehicle is moving. The passenger cannot protect the child from injury in a collision, because the child will be caught between the passenger and objects inside the vehicle.
- While riding in the vehicle, infants and small children should always be placed in the REAR seat in an infant or child restraint system which is appropriate for the child's age, height and weight. If a child is too big for a child restraint system, the child should sit in the REAR seat and be restrained using the seatbelts. According to accident statistics. children are safer when properly restrained in the rear seating positions than in the front seating positions. Never allow a child to stand up or kneel on the seat.
- Put children aged 12 and under in the REAR seat properly restrained at all times in a child restraint device or in a seatbelt. The SRS airbag deploys with considerable speed and force and can injure or even kill children, especially if they are 12 years of age and under and are not restrained or improperly restrained. Because children are lighter and weaker than adults, their risk of being injured from deployment is greater.
- NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT SEAT. DOING SO RISKS SERIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG.
- Always use the child safety locks whenever a child rides in the rear seat. Serious injury could result if a child accidentally opened the door and fell out. Refer to the "Child safety locks" section in chapter 2.

- Always lock the passenger's windows using the lock switch when children are riding in the vehicle. Failure to follow this procedure could result in injury to a child operating the power window. Refer to the "Windows" section in chapter 2.
- Never leave unattended children in the vehicle. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot or sunny days, temperature in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to them.
- Help prevent young children from locking themselves in the trunk. When leaving the vehicle, either close all windows and lock all doors or cancel the inside trunk lid release. Also make certain that the trunk is closed. On hot or sunny days, the temperature in a trunk could quickly become high enough to cause death or serious heat-related injuries including brain damage to anyone locked inside, particularly for small children.

Carefully read the sections "Child restraint systems", "*SRS airbag (Supplemental Restraint System airbag)", and "Seatbelts" in chapter 1 of this owner's manual for instructions and precautions concerning the child restraint system, seatbelt system and SRS airbag system.

Engine exhaust gas (carbon monoxide)

- Never inhale engine exhaust gas. Engine exhaust gas contains carbon monoxide, a colorless and odorless gas which is dangerous, or even lethal, if inhaled.
- Always properly maintain the engine exhaust system to prevent engine exhaust gas from entering the vehicle.
- Never run the engine in a closed space, such as a garage, except for the brief time needed to drive the vehicle in or out of it.

- Avoid remaining in a parked vehicle for a lengthy time while the engine is running. If that is unavoidable, then use the ventilation fan to force fresh air into the vehicle.
- Always keep the front ventilator inlet grille free from snow, leaves or other obstructions to ensure that the ventilation system always works properly.
- If at any time you suspect that exhaust fumes are entering the vehicle, have the problem checked and corrected as soon as possible. If you must drive under these conditions, drive only with all windows fully open.
- Keep the trunk lid or rear liftgate closed while driving to prevent exhaust gas from entering the vehicle.

Drinking and driving

Drinking and then driving is very dangerous. Alcohol in the bloodstream delays your reaction and impairs your perception, judgment and attentiveness. If you drive after drinking – even if you drink just a little – it will increase the risk of being involved in a serious or fatal accident, injuring or killing yourself, your passengers and others. In addition, if you are injured in the accident, alcohol may increase the severity of that injury.

Please don't drink and drive.

Drunken driving is one of the most frequent causes of accidents. Since alcohol affects all people differently, you may have consumed too much alcohol to drive safely even if the level of alcohol in your blood is below the legal limit. The safest thing you can do is never drink and drive. However if you have no choice but to drive, stop drinking and sober up completely before getting behind the wheel.

Drugs and driving

There are some drugs (over the counter and prescription) that can delay your reaction time and impair your perception, judgment and attentiveness. If you drive after taking them, it may increase your, your passengers' and other persons' risk of being involved in a serious or fatal accident.

If you are taking any drugs, check with your doctor or pharmacist or read the literature that accompanies the medication to determine if the drug you are taking can impair your driving ability. Do not drive after taking any medications that can make you drowsy or otherwise affect your ability to safely operate a motor vehicle. If you have a medical condition that requires you to take drugs, please consult with your doctor.

Never drive if you are under the influence of any illicit mind-altering drugs. For your own health and well-being, we urge you not to take illegal drugs in the first place and to seek treatment if you are addicted to those drugs. Driving when tired or sleepy

When you are tired or sleepy, your reaction will be delayed and your perception, judgment and attentiveness will be impaired. If you drive when tired or sleepy, your, your passengers' and other persons' chances of being involved in a serious accident may increase.

Please do not continue to drive but instead find a safe place to rest if you are tired or sleepy. On long trips, you should make periodic rest stops to refresh yourself before continuing on your journey. When possible, you should share the driving with others. Modification of your vehicle

Your vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modification may not be covered under warranties.

■ Car phone/cell phone and driving

Do not use a car phone/cell phone while driving; it may distract your attention from driving and can lead to an accident. If you use a car phone/ cell phone, pull off the road and park in the safe place before using your phone. In some States/Provinces, only hands-free phones may legally be used while driving.

Driving with pets

Unrestrained pets can interfere with your driving and distract your attention from

driving. In a collision or sudden stop, unrestrained pets or cages can be thrown around inside the vehicle and hurt you or vour passengers. Additionally, the pets can be hurt under these situations. It is also for their own safety that pets should be properly restrained in your vehicle. Restrain a pet with a special traveling harness which can be secured to the rear seat with a seatbelt or use a pet carrier which can be secured to the rear seat by routing a seatbelt through the carrier's handle. Never restrain pets or pet carriers in the front passenger's seat. For further information, consult your veterinarian, local animal protection society or pet shop. In the U.S., also see your dealer or visit www.saabcatalog.com for a complete range of pet accessories offered by Saab.

Tire pressures

Check and, if necessary, adjust the pressure of each tire (including the spare) at least once a month and before any long journey.

Check the tire pressure when the tires are cold. Use a pressure gauge to adjust the tire pressures to the values shown on the tire label.

Refer to the "Tires and wheels" section in chapter 11 for detailed information.

WARNING

Driving at high speeds with excessively low tire pressures can cause the tires to deform severely and to rapidly become hot. A sharp increase in temperature could cause tread or sidewall separation, and destruction of the tires. The resulting loss of vehicle control could lead to an accident.

■ California proposition 65 warning

WARNING

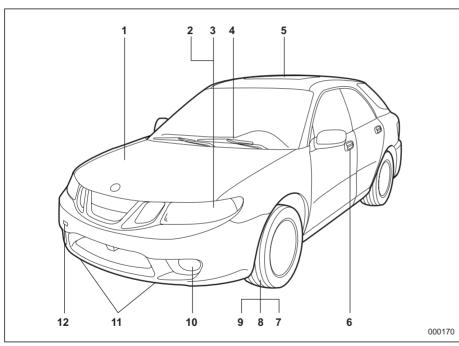
Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids in vehicles and certain components of product wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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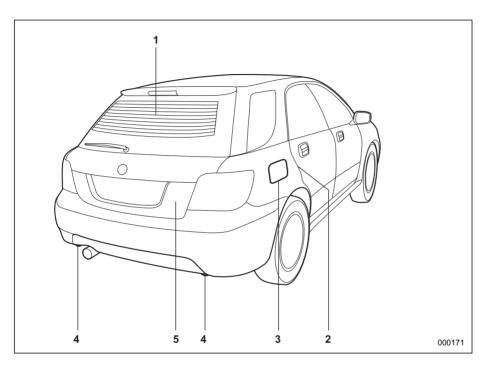
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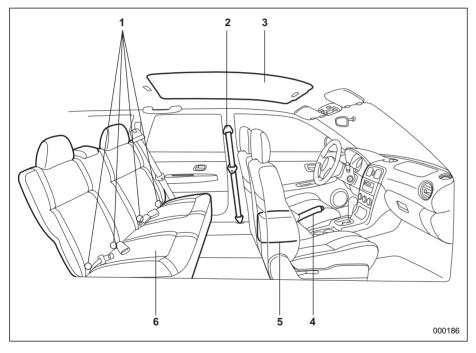
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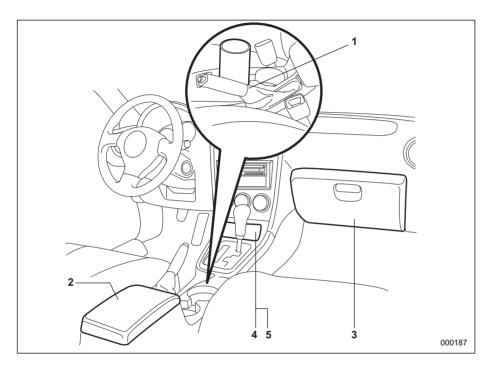
5) Rear liftgate (page 2-19)

■ Interior

▼ Passenger compartment area



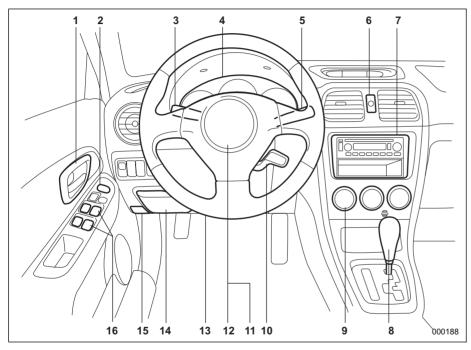
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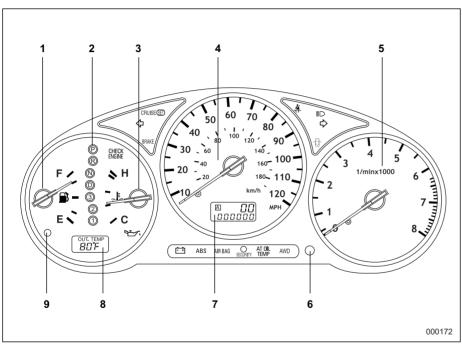
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▼ Warning and indicator light

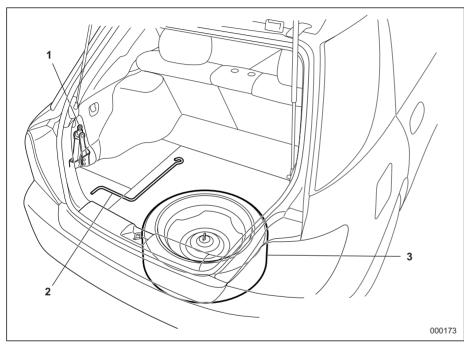
Symbol	Name	Page
Ä	Seatbelt warning light	3-9
AIR BAG	SRS airbag system warning light	3-10
ON or 22	Passenger airbag ON indicator light	3-10
	Passenger airbag OFF indicator light	3-10
CHECK ENGINE	CHECK ENGINE warning light/Malfunc- tion indicator lamp	3-11
÷ ÷	Charge warning light	3-11
م ل کر:	Oil pressure warning light	3-11
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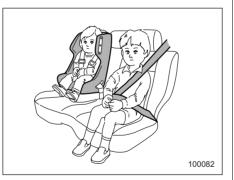
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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Front seats

WARNING

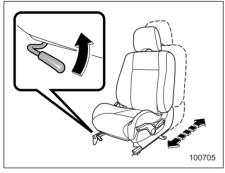
- Never adjust the seat while driving to avoid the possibility of loss of vehicle control and of personal injury.
- Before adjusting the seat, make sure the hands and feet of rear seat passengers are clear of the adjusting mechanism.
- Seatbelts provide maximum restraint when the occupant sits well back and upright in the seat. To reduce the risk of sliding under the seatbelt in a collision, the front seatbacks should be always used in the upright position while the vehicle is running. If the front seatbacks are not used in the upright position in a collision, the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen will increase, and both can result in serious internal injury or death.
- The SRS airbags deploy with considerable speed and force. Occupants who are out of proper position when the SRS airbag deploys could suffer very serious injuries. Because the SRS airbag needs enough space for deployment, the driver should always sit upright and well back in the seat as far from the steering wheel as practical while still maintaining full vehicle control and the front passenger should move the seat as far back as possible and sit upright and well back in the seat.



Put children aged 12 and under in the rear seat properly restrained at all times. The SRS airbag deploys with considerable speed and force and can injure or even kill children. especially if they are 12 years of age and under and are not restrained or improperly restrained. Because children are lighter and weaker than adults, their risk of being injured from deployment is greater. Consequently, we strongly recommend that ALL children (including those in child seats and those that have outgrown child restraint devices) sit in the REAR seat properly restrained at all times in a child restraint device or in a seatbelt, whichever is appropriate for the child's age, height and weight. Secure ALL types of child restraint devices (including forward facing child seat) in the REAR seats at all times.

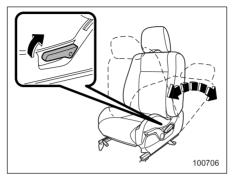
NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT SEAT. DOING SO RISKS SERIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG. According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions. For instructions and precautions concerning child restraint systems, see the "Child restraint systems" section in this chapter.

■ Fore and aft adjustment



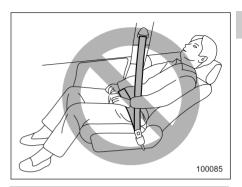
Pull the lever upward and slide the seat to the desired position. Then release the lever and move the seat back and forth to make sure that it is securely locked into place.

Reclining the seatback

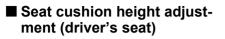


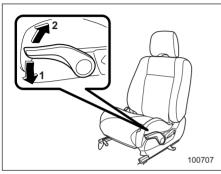
Pull the reclining lever up and adjust the seatback to the desired position. Then release the lever and make sure the seatback is securely locked into place. The seatback placed in a reclined position can spring back upward with force when

released. When operating the reclining lever to return the seatback, hold it lightly so that it may be raised back gradually.



To prevent the passenger from sliding under the seatbelt in the event of a collision, always put the seatback in the upright position while the vehicle is in motion. Also, do not place objects such as cushions between the passenger and the seatback. If you do so, the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen will increase, and both can result in serious internal injury or death.

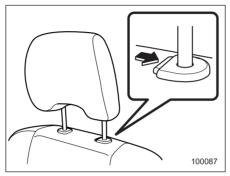




- 1) When the lever is pushed down, the seat is lowered.
- 2) When the lever is pulled up, the seat rises.

The height of the seat can be adjusted by moving the seat cushion adjustment lever up and down.

Head restraint adjustment

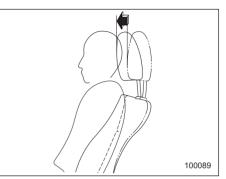


To raise the head restraint, pull it up. To lower it, push the head restraint down while pressing the release button on the top of the seatback.

The head restraint should be adjusted so that the center of the head restraint is closest to the top of the occupant's ears.

Never drive the vehicle with the head restraints removed because they are designed to reduce the risk of serious neck injury in the event that the vehicle is struck from the rear.

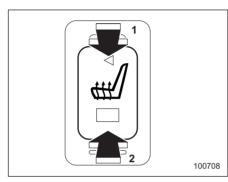
Active head restraint

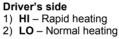


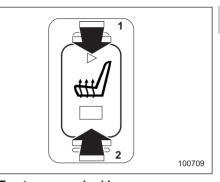
The front seats of your vehicle are equipped with active head restraints. They automatically tilt forward slightly in the event the vehicle is struck from the rear, decreasing the amount of rearward head movement and thus reducing the risk of whiplash. For maximum effectiveness the head restraint should be adjusted so that the center of the head restraint is closest to the top of the occupant's ears.

- Each active head restraint is effective only when its height is properly adjusted and the driver/ passenger_sits in the correct position on the seat.
- If your vehicle is involved in a rear-end collision, have an authorized Saab dealer inspect the active head restraints.
- The active head restraints may not operate in the event the vehicle experiences only a slight impact in the rear.
- The active head restraints may be damaged if they are pushed hard from behind or subjected to shock. As a result, they may not function if the vehicle suffers a rear impact.

Seat heater *







Front passenger's side 1) HI – Rapid heating 2) LO – Normal heating

The seat heater operates when the ignition switch is either in the "ACC" or "ON" position.

To turn on the seat heater, push the "LO" or "HI" position on the switch, as desired, depending on the temperature. Selecting the "HI" position will cause the seat to heat up quicker.

The indicator located on the switch comes on when the seat heater is in operation. When the vehicle's interior is warmed enough or before you leave the vehicle, be sure to turn the switch off.

1-6 Seat, seatbelt and SRS airbags

- There is a possibility that people with delicate skin may suffer slight burns even at low temperatures if he/she uses the seat heater for a long period of time. When using the heater, always be sure to warn the persons concerned.
- Do not put anything on the seat which insulates against heat, such as a blanket, cushion, or similar items. This may cause the seat heater to overheat.

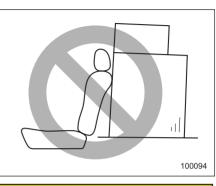
NOTE

Use of the seat heater for a long period of time while the engine is not running can cause the battery to discharge.

Rear seats



Seatbelts provide maximum restraint when the occupant sits well back and upright in the seat. Do not put cushions or any other materials between occupants and seatbacks or seat cushions. If you do so, the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen will increase, and both can result in serious internal injury or death.

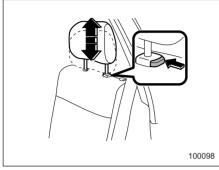


Never stack luggage or other cargo higher than the top of the seatback because it could tumble forward and injure passengers in the event of a sudden stop or accident.

Head restraint adjustment

Never drive the vehicle with the head restraints removed because they are designed to reduce the risk of serious neck injury in the event that the vehicle is struck from the rear.

▼ Rear windows side seating position



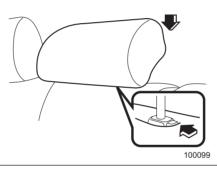
To raise the head restraint, pull it up. To lower it, push the head restraint down while depressing the release button on the top of the seatback.

The head restraint should be adjusted so that the center of the head restraint is closest to the top of the occupant's ears.

When the seats are not occupied, lower the head restraints to improve rearward visibility.

▼ Rear center seating position

The head restraint is not intended to be used at the lowest position. Before sitting on the seat, raise the head restraint to the click position.



To raise the head restraint, pull it up. To lower it, push the head restraint down while pressing the release button on the top of the seatback.

When the rear-center seating position is occupied, raise the head restraint to the click position. When the rear center seating position is not occupied, lower the head restraint to improve rearward visibility. Folding down the rear seat

- After returning the rear seat to its original position, be certain to place all of the seatbelts and the tab attached to the seat cushion above the seat cushion. And make certain that the shoulder belts are fully visible.
- Never allow passengers to ride on the folded rear seatback or in the cargo area. Doing so may result in serious injury or death.
- Secure lengthy items properly to prevent them from shooting forward and causing serious injury during a sudden stop.

1-8 Seat, seatbelt and SRS airbags



1. Lower the head restraints.

2. Unlock the seatback by pulling the release knob and then fold the seatback down.

To return the seatback to its original position, raise the seatback until it locks into place and make sure that it is securely locked.

Seatbelts

Seatbelt safety tips

- All persons in the vehicle should fasten their seatbelts BEFORE the vehicle starts to move. Otherwise, the possibility of serious injury becomes greater in the event of a sudden stop or accident.
- All belts should fit snugly in order to provide full restraint. Loose fitting belts are not as effective in preventing or reducing injury.
- Each seatbelt is designed to support only one person. Never use a single belt for two or more persons – even children. Otherwise, in an accident, serious injury or death could result.
- Replace all seatbelt assemblies including retractors and attaching hardware worn by occupants of a vehicle that has been in a serious accident. The entire assembly should be replaced even if damage is not obvious.

• Put children aged 12 and under in the rear seat properly restrained at all times. The SRS airbag deplovs with considerable speed and force and can injure or even kill children, especially if they are 12 years of age and under and are not restrained or improperly restrained. Because children are lighter and weaker than adults. their risk of being injured from deployment is greater. Consequently, we strongly recommend that ALL children (including those in child seats and those that have outgrown child restraint devices) sit in the REAR seat properly restrained at all times in a child restraint device or in a seatbelt. whichever is appropriate for the child's height and weight.

Secure ALL types of child restraint devices (including forward facing child seats) in the REAR seats at all times. NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT SEAT. DOING SO RISKS SERIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG.

According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions. For instructions and precautions concerning the child restraint system, see the "Child restraint systems" section in this chapter.

Your vehicle is equipped with a crash sensing and diagnostic module, which will record the use of the seatbelt(s) by the driver and front passenger when any of the SRS frontal and side airbags deploys.

▼ Infants or small children

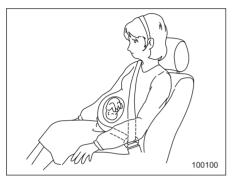
Use a child restraint system that is suitable for your vehicle. See information on "Child restraint systems" in this chapter.

▼ Children

If a child is too big for a child restraint system, the child should sit in the rear seat and be restrained using the seatbelts. According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions. Never allow a child to stand up or kneel on the seat.

If the shoulder portion of the belt crosses the face or neck, adjust the shoulder belt anchor height (window-side seating positions only) and then if necessary move the child closer to the belt buckle to help provide a good shoulder belt fit. Care must be taken to securely place the lap belt as low as possible on the hips and not on the child's waist. If the shoulder portion of the belt cannot be properly positioned, a child restraint system should be used. Never place the shoulder belt under the child's arm or behind the child's back.

▼ Expectant mothers



Expectant mothers also need to use the seatbelts. They should consult their doctor for specific recommendations. The lap belt should be worn securely and as low as possible over the hips, not over the waist.

Emergency Locking Retractor (ELR)

The driver's seatbelt has an Emergency Locking Retractor (ELR).

The emergency locking retractor allows normal body movement but the retractor locks automatically during a sudden stop, impact or if you pull the belt very quickly out of the retractor.

Automatic/Emergency Locking Retractor (A/ELR)

Each passenger's seatbelt has an Automatic/Emergency Locking Retractor (A/ ELR). The Automatic/Emergency Locking Retractor normally functions as an Emergency Locking Retractor (ELR). The A/ ELR has an additional locking mode "Automatic Locking Retractor (ALR) mode" intended to secure a child restraint system. When the seatbelt is once drawn out completely and is then retracted even slightly. the retractor locks the seatbelt in that position and the seatbelt cannot be extended. As the belt is rewinding, clicks will be heard which indicate the retractor functions as an ALR. When the seatbelt is retracted fully, the ALR mode is released.

When securing a child restraint system on the rear seats by the use of the seatbelt, the seatbelt must be changed over to the Automatic Locking Retractor (ALR) mode.

When the child restraint system is removed, make sure that the seatbelt retracts fully and the retractor returned to the Emergency Locking Retractor (ELR) mode.

For instructions on how to convert the retractor to the ALR mode and restore it to the ELR mode, see the "Child restraint systems" section in this chapter.

Seatbelt warning light and chime



Your vehicle is equipped with a seatbelt warning device at the driver's seat, as required by current safety standards.

There is a seatbelt warning light in the combination meter.

If the driver has not yet fastened the seatbelt when the ignition switch is turned to the "ON" position, the seatbelt warning light will flash for 6 seconds, to warn that the seatbelt is unfastened. If the driver's seatbelt is not fastened, a chime will also sound simultaneously.

If the driver's seatbelt is still not fastened 6 seconds later, the warning light will remain lit for 15 seconds. If the driver's seatbelt is still not fastened even 15 seconds later (21 seconds after turning ON the ignition switch), the warning lights will alternate between flashing and steady illumination at 15-second intervals, and the chime will sound while the warning light is flashing.

Alternate flashing and steady illumination of the warning lights and sounding of the chime will continue until the driver fastens the seatbelt.

NOTE

• If the driver unfastens the seatbelt after fastening, the seatbelt warning device operates as follows according to the_vehicle speed.

• At speeds lower than approximately 9 mph (15 km/h)

The warning light will alternate between flashing and steady illumination at 15-second intervals. The chime will not sound.

• At speeds higher than approximately 9 mph (15 km/h)

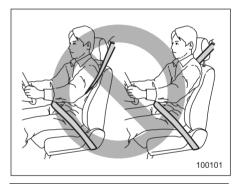
The warning light will alternate between flashing and steady illumination at 15-second intervals and the chime will sound while the warning light is flashing.

• It is possible to cancel the warning operation that follows the 6-second warning after turning ON the ignition switch by unfastening and refastening the driver's seatbelt. When the ignition switch is turned ON next time, however, the complete sequence of the warning operation resumes. For further details about canceling the warning operation, please contact your Saab dealer.

Fastening the seatbelt

- Never use a belt that is twisted or reversed. In an accident, this can increase the risk or severity of injury.
- Keep the lap belt as low as possible on your hips. In a collision, this spreads the force of the lap belt over stronger hip bones instead of across the weaker abdomen.
- Seatbelts provide maximum restraint when the occupant sits well back and upright in the seat. To reduce the risk of sliding under the seatbelt in a collision, the front seatbacks should be always used in the upright position while the vehicle is running. If the front seatbacks are not used in the upright position in a collision, the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen will increase, and both can result in serious internal injury or death.

 Do not put cushions or any other materials between occupants and seatbacks or seat cushions. If you do so, the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen will increase, and both can result in serious internal injury or death.



Never place the shoulder belt under the arm or behind the back. If an accident occurs, this can increase the risk or severity of injury.

1-12 Seat, seatbelt and SRS airbags

Metallic parts of the seatbelt can become very hot in a vehicle that has been closed up in sunny weather; they could burn an occupant. Do not touch such hot parts until they cool.

▼ Front seatbelts

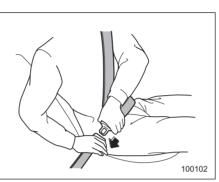
1. Adjust the seat position:

Driver's seat: Adjust the seatback to the upright position. Move the seatback as far from the steering wheel as practical while still maintaining full vehicle control.

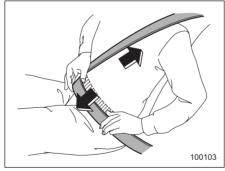
Front passenger's seat: Adjust the seatback to the upright position. Move the seat as far back as possible.

2. Sit well back in the seat.

3. Pick up the tongue plate and pull the belt out slowly. Do not let it get twisted. If the belt stops before reaching the buckle, return the belt slightly and pull it out more slowly. If the belt still cannot be unlocked, let the belt retract slightly after giving it a strong pull, then pull it out slowly again.



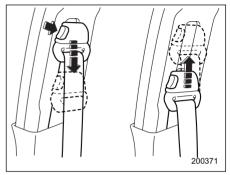
4. Insert the tongue plate into the buckle until you hear a click.



5. To make the lap part tight, pull up on the shoulder belt.

6. Place the lap belt as low as possible on your hips, not on your waist.

 ∇ Adjusting the front seat shoulder belt anchor height



The shoulder belt anchor height should be adjusted to the position best suited for the driver/front passenger.

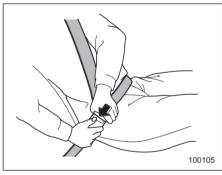
To lower the anchor height, push the release button and slide the anchor down. To raise the anchor height, slide the anchor up. Pull down on the anchor to make sure that it is locked in place.

Always adjust the anchor height so that the shoulder belt passes over the middle of the shoulder without touching the neck.

WARNING

When wearing the seatbelts, make sure the shoulder portion of the webbing does not pass over your neck. If it does, adjust the seatbelt anchor to a lower position. Placing the shoulder belt over the neck may result in neck injury during sudden braking or in a collision.

$\nabla\,$ Unfastening the seatbelt



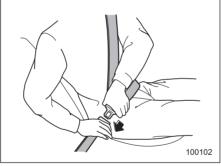
Push the button on the buckle.

Before closing the door, make sure that the belts are retracted properly to avoid catching the belt webbing in the door.

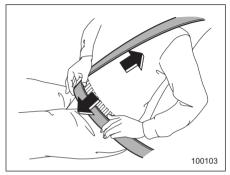
▼ Rear seatbelts (except rear center seatbelt)

1. Sit well back in the seat.

2. Pick up the tongue plate and pull the belt out slowly. Do not let it get twisted. If the belt stops before reaching the buckle, return the belt slightly and pull it out more slowly. If the belt still cannot be unlocked, let the belt retract slightly after giving a strong pull on it, then pull it out slowly again.



3. Insert the tongue plate into the buckle until you hear a click.

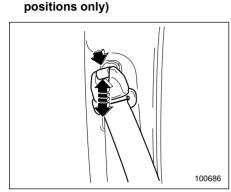


4. To make the lap part tight, pull up on the shoulder belt.

5. Place the lap belt as low as possible on your hips, not on your waist.

▽ Adjusting the rear seat shoulder belt

anchor height (window-side seating



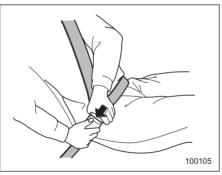
The shoulder belt anchor height should be adjusted to the position best suited for you. To adjust the anchor height, push the release button and slide the anchor up or down. Pull down on the anchor to make sure that it is locked in place.

Always adjust the anchor height so that the shoulder belt passes over the middle of the shoulder without touching the neck.

WARNING

When wearing the seatbelts, make sure the shoulder portion of the webbing does not pass over your neck. If it does, adjust the seatbelt anchor to a lower position. Placing the shoulder belt over the neck may result in neck injury during sudden braking or in a collision.

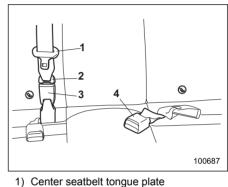
∇ Unfastening the seatbelt



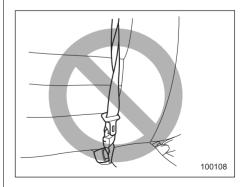
Push the button on the buckle.

Before closing the door, make sure that the belts are retracted properly to avoid catching the belt webbing in the door.

▼ Rear center seatbelt



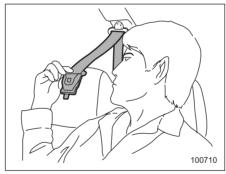
- 2) Connector (tongue)
- 3) Connector (buckle)
- 4) Center seatbelt buckle



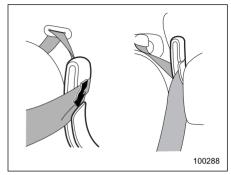
Fastening the seatbelt with the webbing twisted can increase the risk or severity of injury in an accident. When fastening the belt after it is pulled out from the retractor, especially when inserting the connector's tongue plate into the mating buckle (on right-hand side), always check that the webbing is not twisted.

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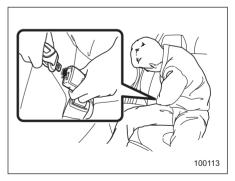
Be sure to fasten both tongue plates to the respective buckles. If the seatbelt is used only as a shoulder belt (with the connector's tongue plate not fastened to the connector's buckle on the right-hand side), it cannot properly restrain the wearer in position in an accident, possibly resulting in serious injury or death.



1. Remove the tongue plate from the belt holder located under the right rear quarter glass and pull out the seatbelt slowly.



2. After drawing out the seatbelt, pass it through the belt guide as follows: First insert one edge of the belt into the open gap in the comfort guide; then slide the rest of the belt in, so that the whole belt fits inside.



- CONTINUED -

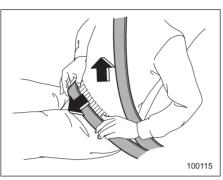
1-16 Seat, seatbelt and SRS airbags

3. After confirming that the webbing is not twisted, insert the connector (tongue) attached at the webbing end into the buckle on the right-hand side until a click is heard.

If the belt stops before reaching the buckle, return the belt slightly and pull it out more slowly. If the belt still cannot be unlocked, let the belt retract slightly after giving it a strong pull, then pull it out slowly again.



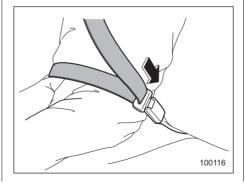
4. Insert the center seatbelt tongue plate in the center seatbelt buckle marked "CENTER" on the left-hand side until it clicks.



5. To make the lap part tight, pull up on the shoulder belt.

6. Place the lap belt as low as possible on your hips, not on your waist.

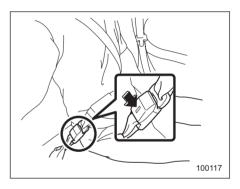
\bigtriangledown Unfastening the seatbelt

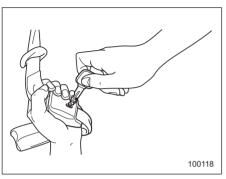


Push the release button of the center seatbelt buckle (on the left-hand side) to unfasten the seatbelt.

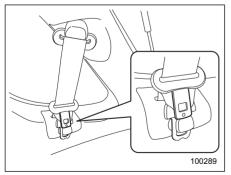
NOTE

When the seatback is folded down for greater cargo area, it is necessary to disconnect the connector.



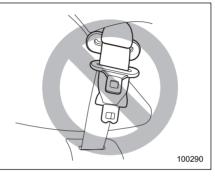


1. Insert a key or other hard pointed object into the slot in the connector (buckle) on the right-hand side and push it in, and the connector (tongue) plate will disconnect from the buckle.



2. Allow the retractor to roll up the belt.

You should hold the webbing end and guide it back into the retractor while it is rolling up. Insert the tongue plate into the belt holder.



- Do not allow the retractor to roll up the seatbelt too quickly. Otherwise, the metal tongue plates may hit against the trim, resulting in damaged trim.
- Have the seatbelt fully rolled up so that the tongue plates are neatly stored. A hanging tongue plate can swing and hit against the trim during driving, causing damage to the trim.

Seatbelt maintenance

To clean the seatbelts, use a mild soap and lukewarm water. Never bleach or dye the belts because this could seriously affect their strength.

Inspect the seatbelts and attachments including the webbing and all hardware periodically for cracks, cuts, gashes, tears, damage, loose bolts or worn areas. Replace the seatbelts even if only minor damage is found.

- Keep the belts free of polishes, oils, chemicals and particularly battery acid.
- Never attempt to make modifications or changes that will prevent the seatbelt from operating properly.

Seatbelt extender

If the front seatbelts are not long enough to permit the tongue plate to engage with the seatbelt buckle, an optional seatbelt extender is available from your Saab dealer. When ordering an extender, only order one particularly designed for your vehicle. Several different types of extenders are available to match various varieties of front seatbelt designs. See your Saab dealer for assistance.

The extender adds approximately 8 inches (200 mm) of length and it can be used for either the driver or front passenger seating position.

For the safety of others, the extender should be removed after each use, especially if the next person using the seatbelt does not need one.

Note that leaving the seatbelt extender's tongue plate engaged with the seatbelt buckle may prevent the Saab advanced front airbag system from functioning correctly or cause the system to fail.

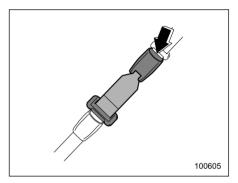
Be sure to observe the following when using the seatbelt extender.

Failure to follow these instructions and warnings could reduce the effectiveness of the seatbelt and result in more serious injury in the event of a collision.

- Never use the extender when the belt itself is long enough to permit it to be buckled properly. If removal of heavy clothing is all that is needed to permit the seatbelt to be buckled properly, remove the heavy clothing and do not use the extender.
- Do not use the extender if the buckle of the extender rests over the abdomen.
- Do not let someone else use the extender. Use of an extender when it is not needed could reduce the effectiveness of the seatbelt and result in more serious injury in the event of a collision.
- Use the extender only for the front seatbelts and only for the model for which it was originally provided. Never use the extender for the rear seatbelts or for a different model.

NOTE

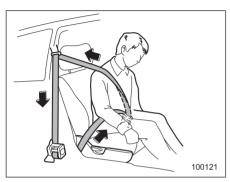
When the seatbelt extender is used by a pregnant passenger, consult a doctor to get approval in advance.



To connect the extender to the seatbelt, insert the tongue plate into the seatbelt buckle so that the "PRESS" signs on the buckle-release buttons of the extender and the seatbelt are both facing outward as shown in the diagram. You will hear a click when the tongue plate locks into the buckle.

When releasing the seatbelt, press on the buckle-release button on the extender, not on the seatbelt. This helps to prevent damage to the vehicle interior and extender itself.

Front seatbelt pretensioners



The driver's and front passenger's seatbelts have a seatbelt pretensioner. The seatbelt pretensioners are designed to be activated in the event of an accident involving a moderate to severe frontal collision.

The pretensioner sensor also serves as the frontal SRS airbag sensor. If the sensor detects a certain predetermined amount of force during a frontal collision, the front seatbelt is quickly drawn back in by the retractor to take up the slack so that the belt more effectively restrains the front seat occupant.

When a seatbelt pretensioner is activated, an operating noise will be heard and a small amount of smoke will be released. These occurrences are normal and not harmful. This smoke does not indicate a fire in the vehicle.

Once the seatbelt pretensioner has been activated, the seatbelt retractor remains locked. Consequently, the seatbelt can not be pulled out and retracted and therefore must be replaced.

NOTE

• Seatbelt pretensioners are not designed to activate in minor frontal impacts, in side or rear impacts or in rollover accidents.

• The driver's seat and passenger's seat pretensioners and frontal SRS airbag operate simultaneously.

• Pretensioners are designed to function on a one-time-only basis. In the event that a pretensioner is activated, both the driver's and front passenger's seatbelt retractor assemblies must be replaced only by an authorized Saab dealer. When replacing seatbelt retractor assemblies, use only genuine Saab parts.

• If either front seatbelt does not retract or cannot be pulled out due to a malfunction or activation of the pretensioner, contact your Saab dealer as soon as possible.

• If the front seatbelt retractor assem-

bly or surrounding area has been damaged, contact your Saab dealer as soon as possible.

• When you sell your vehicle, we urge you to explain to the buyer that it has seatbelt pretensioners by alerting him to the contents of this section.

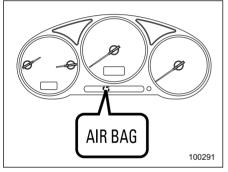
WARNING

- To obtain maximum protection, the occupants should sit in an upright position with their seatbelts properly fastened. Refer to the "Seatbelts" section in this chapter.
- Do not modify, remove or strike the front seatbelt retractor assemblies or surrounding area. This could result in accidental activation of the seatbelt pretensioners or could make the system inoperative, possibly resulting in serious injury. Seatbelt pretensioners have no user-serviceable parts. For required servicing of front seatbelt retractors equipped with seatbelt pretensioners, see your nearest Saab dealer.

1-20 Seat, seatbelt and SRS airbags

 When discarding front seatbelt retractor assemblies or scrapping the entire vehicle due to collision damage or for other reasons, consult your Saab dealer.

System monitors



A diagnostic system continually monitors the readiness of the seatbelt pretensioner while the vehicle is being driven. The seatbelt pretensioners share the control module with the SRS airbag system. Therefore, if any malfunction occurs in a seatbelt pretensioner, the SRS airbag system warning light will illuminate. The SRS airbag system warning light will show normal system operation by lighting for approximately_6 seconds when the ignition switch is turned to the "ON" position. The following components are monitored by the indicator:

- Front sub sensor (Right-hand side)
- Front sub sensor (Left-hand side)
- Airbag control module (including impact sensors)
- Frontal airbag module (Driver's side)
- Frontal airbag module (Front passenger's side)
- Side airbag sensor (Center pillar righthand side)
- Side airbag sensor (Center pillar left-hand side)
- Side airbag module (Driver's side)
- Side airbag module (Front passenger's side)
- Seatbelt pretensioner (Driver's side)
- Seatbelt pretensioner (Front passenger's side)
- Seatbelt buckle switch (Driver's side)
- Seatbelt buckle switch (Front passenger's side)
- Driver's seat position sensor

 Front passenger's seatbelt tension sensor

• Front passenger's occupant detection system weight sensor

- Front passenger's occupant detection control module
- Front passenger's frontal airbag ON and OFF indicator
- All related wiring

If the warning light exhibits any of the following conditions, there may be a malfunction in the seatbelt pretensioners and/or SRS airbag system. Immediately take your vehicle to your nearest Saab dealer to have the system checked. Unless checked and properly repaired, the seatbelt pretensioners and/or SRS airbag will not operate properly in the event of a collision, which may increase the risk of injury.

- Flashing or flickering of the warning light
- No illumination of the warning light when the ignition switch is first turned to the "ON" position
- Continuous illumination of the warning light
- Illumination of the warning light while driving

System servicing

WARNING

- When discarding a seatbelt retractor assembly or scrapping the entire vehicle damaged by a collision, consult your Saab dealer.
- Tampering with or disconnecting the system's wiring could result in accidental activation of the seatbelt pretensioner and/or SRS airbag or could make the system inoperative, which may result in serious injury. The wiring harnesses of the seatbelt pretensioner and SRS airbag systems are covered with vellow insulation and the connectors of the system are vellow for easy identification. Do not use electrical test equipment on any circuit related to the seatbelt pretensioner and SRS airbag systems. For required servicing of the seatbelt pretensioner, see your nearest Saab dealer.

The front sub sensors are located in both front fenders and the SRS airbag control module including the impact sensors is located under the center console. If you need service or repair in those areas or near the front seatbelt retractors, we recommend that you have an authorized Saab dealer perform the work.

NOTE

If the front part of the vehicle is damaged in an accident to the extent that the seatbelt pretensioner does not operate, contact your Saab dealer as soon as possible.

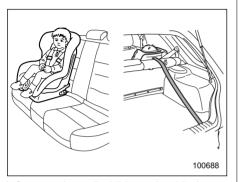
Precautions against vehicle modification

Always consult your Saab dealer if you want to install any accessory parts to your vehicle.

Do not perform any of the following modifications. Such modifications can interfere with proper operation of the seatbelt pretensioners.

- Attachment of any equipment (bush bar, winches, snow plow, skid plate, etc.) other than genuine Saab accessory parts to the front end.
- Modification of the suspension system or front end structure.
- Installation of a tire of different size and construction from the tires specified on the vehicle label attached to the door pillar or specified for individual vehicle models in this Owner's Manual.

Child restraint systems



Infants and small children should always be placed in an infant or child restraint system in the rear seat while riding in the vehicle. You should use an infant or child restraint system that meets Federal Motor Vehicle Safety Standards or Canada Motor Vehicle Safety Standards, is compatible with your vehicle and is appropriate for the child's age and size. All child restraint systems are designed to be secured in vehicle seats by lap belts or the lap belt portion of a lap/shoulder belt (except those covered under the section in this manual. entitled "Installation of child restraint systems by use of lower and tether anchorages (LATCH)").

Children could be endangered in an accident if their child restraints are not properly secured in the vehicle. When installing the child restraint system, carefully follow the manufacturer's instructions.

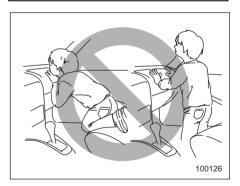
According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions.

All U.S. states and Canadian provinces require that infants and small children be restrained in an approved child restraint system at all times while the vehicle is moving.



Never let a passenger hold a child on his or her lap or in his or her arms while the vehicle is moving. The passenger cannot protect the child from injury in a collision, because the child will be caught between the passenger and objects inside the vehicle.

Additionally, holding a child in your lap or arms in the front seat exposes that child to another serious danger. Since the SRS airbag deploys with considerable speed and force, the child could be injured or even killed.

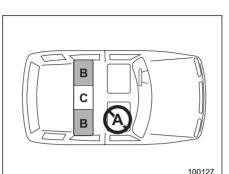


Children should be properly restrained at all times. Never allow a child to stand up, or to kneel on any seat. Unrestrained children will be thrown forward during sudden stop or in an accident and can be injured seriously.

Additionally, children standing up or kneeling on or in front of the front seat are exposed another serious danger. Since the SRS airbag deploys with considerable speed and force, the child could be injured or even killed.

■ Where to place a child restraint system

The following are Saab's recommendations on where to place a child restraint system in your vehicle.



A: Front passenger's seat

You should not install a child restraint system (including a booster seat) due to the hazard to children posed by the passenger's airbag.

B: Rear seat, window-side seating positions

Recommended positions for all types of child restraint systems.

In these positions, Automatic/Emergency Locking Retractor (A/ELR) seatbelts and lower anchorages (bars) are provided for installing a child restraint system.

Some types of child restraints might not be able to be secured firmly due to projection of the seat cushion.

In this seating position, you should use only a child restraint system that has a

bottom base that fits snugly against the contours of the seat cushion and can be securely retained using the seatbelt.

C: Rear seat, center seating position

Installing a child restraint system is not recommended, although the A/ELR seatbelt and an upper anchorage (tether anchorage) are provided in this position. Some types of child restraints might not be able to be secured firmly due to projection of the seat cushion.

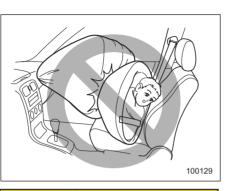
In this seating position, you should use only a child restraint system that has a bottom base that fits snugly against the contours of the seat cushion and can be securely retained using the seatbelt.

If it is unavoidable to install a child restraint system in the rear seat's center seating position, lower the center head restraint to the lowest position and install the child restraint system by correctly passing the rear center seatbelt through the belt guide.

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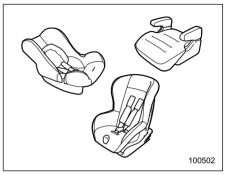
Put children aged 12 and under in the rear seat properly restrained at all times. The SRS airbag deploys with considerable speed and force and can injure or even kill children, especially if they are 12 years of age and under and are not restrained or improperly restrained. Because children are lighter and weaker than adults, their risk of being injured from deployment is greater.

For that reason, be sure to secure ALL types of child restraint devices (including forward facing child seats) in the REAR seats at all times. You should choose a restraint device which is appropriate for the child's age, height and weight. According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions.



SINCE YOUR VEHICLE IS EQUIPPED WITH A PASSENGER'S SRS AIRBAG, NEVER INSTALL A REARWARD FACING CHILD SAFE-TY SEAT IN THE FRONT PASSEN-GER'S SEAT. DOING SO RISKS SE-RIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG.

Choosing a child restraint system



Choose a child restraint system that is appropriate for the child's age and size (weight and height) in order to provide the child with proper protection. The child restraint system should meet all applicable requirements of Federal Motor Vehicle Safety Standards for the United States or of Canadian Motor Vehicle Safety Standards for Canada. It can be identified by looking for the label on the child restraint system or the manufacturer's statement of compliance in the document attached to the system.

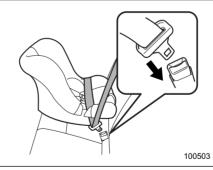
Also it is important for you to make sure that the child restraint system is compatible with the vehicle in which it will be used. Installing child restraint systems with A/ELR seatbelt

WARNING

- Child restraint systems and seatbelts can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check the child restraint system before you place a child in it.
- Do not leave an unsecured child restraint system in your vehicle. Unsecured child restraint systems can be thrown around inside of the vehicle in a sudden stop, turn or accident; they can strike and injure vehicle occupants as well as result in serious injuries or death to the child.

When you install a child restraint system, follow the manufacturer's instructions supplied with it. After installing the child restraint system, check to ensure that it is held securely in position. If it is not held tight and secure, the danger of your child suffering personal injury in the event of an accident may be increased.

Installing a rearward facing child restraint

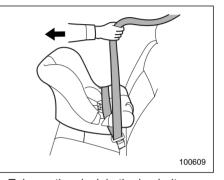


1. Place the child restraint system in the rear seating position.

2. Run the lap and shoulder belt through or around the child restraint system follow-

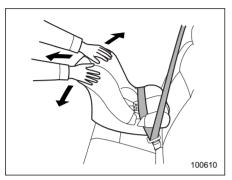
ing the instructions provided by its manufacturer.

3. Insert the tongue plate into the buckle until you hear a click.



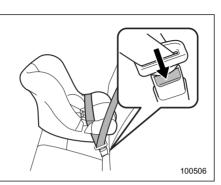
4. Take up the slack in the lap belt.
5. Pull out the seatbelt fully from the retractor to change the retractor over from the Emergency Locking Retractor (ELR) to the Automatic Locking Retractor (ALR) function. Then, allow the belt to rewind into the retractor. As the belt is rewinding, clicks will be heard which indicate the retractor functions as ALR.

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6. Push and pull the child restraint system forward and from side to side to check if it is firmly secured. Sometimes a child restraint can be more firmly secured by pushing it down into the seat cushion and then tightening the seatbelt.

7. Pull at the shoulder portion of the belt to confirm that it cannot be pulled out (ALR properly functioning).



8. To remove the child restraint system, press the release button on the seatbelt buckle and allow the belt to retract completely. The belt will return to the ELR mode.

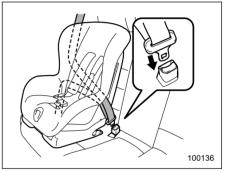
NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT PASSENGER'S SEAT. DOING SO RISKS SERIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG.

NOTE

When the child restraint system is no longer in use, remove it and restore the

ELR function of the retractor. That function is restored by allowing the seatbelt to retract fully.

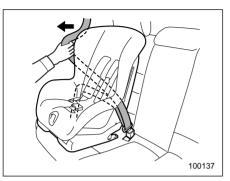
Installing forward facing child restraint



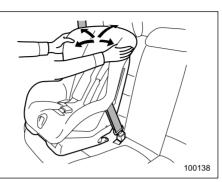
1. Place the child restraint system in the rear seating position.

2. Run the lap and shoulder belt through or around the child restraint system following the instructions provided by its manufacturer.

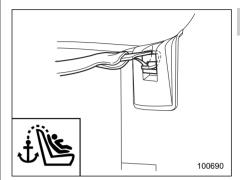
3. Insert the tongue plate into the buckle until you hear a click.



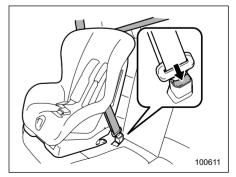
 Take up the slack in the lap belt.
 Pull out the seatbelt fully from the retractor to change the retractor over from the Emergency Locking Retractor (ELR) to the Automatic Locking Retractor (ALR) function. Then, allow the belt to rewind into the retractor. As the belt is rewinding, clicks will be heard which indicate the retractor functions as ALR.



- 6. Before having a child sit in the child restraint system, move it back and forth and right and left to check if it is firmly secured. Sometimes a child restraint can be more firmly secured by pushing it down into the seat cushion and then tightening the seatbelt.
- 7. Pull at the shoulder portion of the belt to confirm that it cannot be pulled out (ALR properly functioning).



8. If the child restraint system requires a top tether, latch the hook onto the top tether anchor and tighten the top tether. See the "Top tether anchorages" for additional instructions.



9. To remove the child restraint system,

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press the release button on the seatbelt buckle and allow the belt to retract completely. The belt will return to the ELR mode.

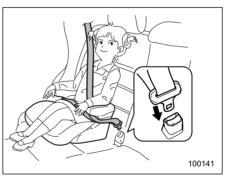
NOTE

When the child restraint system is no longer in use, remove it and restore the ELR function of the retractor. That function is restored by allowing the seatbelt to retract fully.

■ Installing a booster seat

- Child restraint systems and seatbelts can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check the child restraint system before you place a child in it.
- Do not leave an unsecured child restraint system in your vehicle. Unsecured child restraint systems can be thrown around inside of the vehicle in a sudden stop, turn or accident; they can strike and injure vehicle occupants as well as result in serious injuries or death to the child.

When you install a child restraint system, follow the manufacturer's instructions supplied with it. After installing the child restraint system, check to ensure that it is held securely in position. If it is not held tight and secure, the danger of your child suffering personal injury in the event of an accident may be increased.

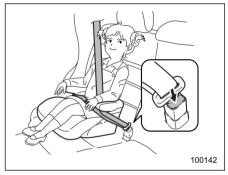


- 1. Place the booster seat in the rear seating position and sit the child on it. The child should sit well back on the booster seat.
- 2. Run the lap and shoulder belt through or around the booster seat and the child

following the instructions provided by its manufacturer.

3. Insert the tongue plate into the buckle until you hear a click. Take care not to twist the seatbelt.

Make sure the shoulder belt is positioned across the center of child's shoulder and that the lap belt is positioned as low as possible on the child's hips.



4. To remove the booster seat, press the release button on the seatbelt buckle and allow the belt to retract.

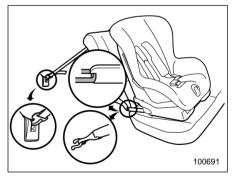
• Never use a belt that is twisted or reversed. In an accident, this can increase the risk or severity of injury to the child.

- Never place the shoulder belt under the child's arm or behind the child's back. If an accident occurs, this can increase the risk or severity of injury to the child.
- The seatbelt should fit snugly in order to provide full restraint. Loose fitting belts are not as effective in preventing or reducing injury.
- Place the lap belt as low as possible on the child's hips. A high-positioned lap belt will increase the risk of sliding under the lap belt and of the lap belt sliding up over the abdomen, and both can result in serious internal injury or death.
- Make sure the shoulder belt is positioned across the center of child's shoulder. Placing the shoulder belt over the neck may result in neck injury during sudden braking or in a collision.

Installation of child restraint systems by use of lower and tether anchorages (LATCH)

- Child restraint systems and seatbelts can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check the child restraint system before you place a child in it.
- Do not leave an unsecured child restraint system in your vehicle. Unsecured child restraint systems can be thrown around inside of the vehicle in a sudden stop, turn or accident; they can strike and injure vehicle occupants as well as result in serious injuries or death to the child.

When you install a child restraint system, follow the manufacturer's instructions supplied with it. After installing the child restraint system, check to ensure that it is held securely in position. If it is not held tight and secure, the danger of your child suffering personal injury in the event of an accident may be increased.



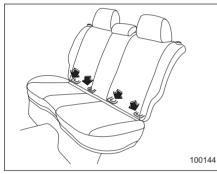
Some types of child restraint systems can be installed on the rear seat of your vehicle without use of the seatbelts. Such child restraint systems are secured to the designated anchorages provided on the vehicle body. The lower and tether anchorag-

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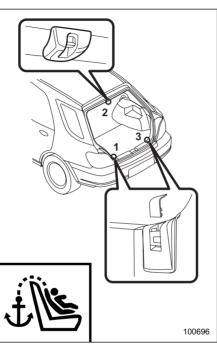
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es are sometimes referred to as the LATCH system (Lower Anchors and Tethers for CHildren).

Your vehicle is equipped with four lower anchorages (bars) and three upper anchorages (tether anchorages) for accommodating such child restraint systems.

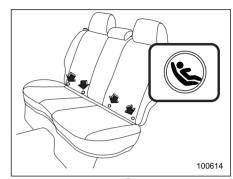


The lower anchorages (bars) are used for installing a child restraint system only on the rear seat window-side seating positions. For each window-side seating position, two lower anchorages are provided. Each lower anchorage is located where the seat cushion meets the seatback.

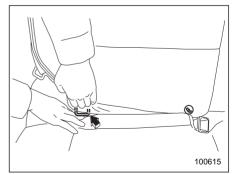


- 1) For left seat
- 2) For center seat
- 3) For right seat

The tether anchorages (upper anchorages) are provided for all the seating positions (middle and both window-side ones) of the rear seat.

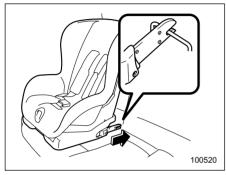


You will find marks " 🕲 " at the bottom of the rear seat seatbacks. These marks indicate the positions of the lower anchorages (bars).

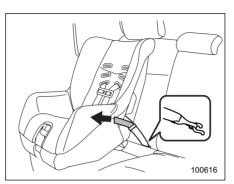


Each lower anchorage is located where the seat cushion meets the seatback.

1. Use the " So " marks to locate the two lower anchorages (bars) for the position where you want to install the child restraint system.



2. While following the instructions supplied by the child restraint system manufacturer, connect the lower hooks onto the lower anchorages located at " S" marks on the bottom of the rear seatback. When the hooks are connected, make sure the adjacent seatbelts are not caught.



3. [If your child restraint system is of a flexible attachment type (which uses tether belts to connect the child restraint system properly to the lower anchorages)] While pushing the child restraint into the seat cushion, pull both left and right lower tether belts up to secure the child restraint system firmly by taking up the slack in the belt.

4. Connect the top tether hook to the tether anchorage and firmly tighten the tether. For information on how to set the top tether, read the following "Top tether anchorages".



5. Before seating a child in the child restraint system, try to move seat back and forth and right and left to verify that it is held securely in position.

6. To remove the child restraint system, follow the reverse procedures of installation.

If you have any question concerning this type of child restraint system, ask your Saab dealer.

■ Top tether anchorages

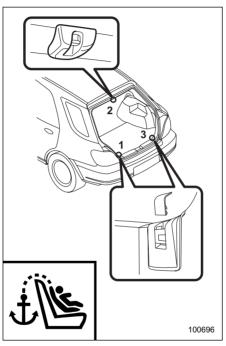
Your vehicle is equipped with three top tether anchorages so that a child restraint system having a top tether can be installed in the rear seat. When installing a child restraint system using top tether, proceed as follows, while observing the in-

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structions by the child restraint system manufacturer.

Since a top tether can provide additional stability by offering another connection between a child restraint system and the vehicle, we recommend that you use a top tether whenever one is required or available.

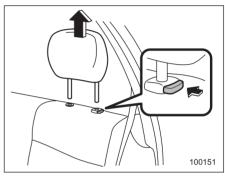
▼ Anchorage location



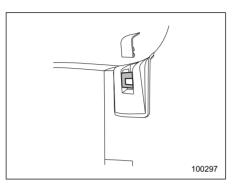
- 1) For left seat
- 2) For center seat
- 3) For right seat

There is an anchorage for the center seating position at the rear edge of the roof, and anchorages for each of the two window-side seating positions on the rear wall of the cargo area.

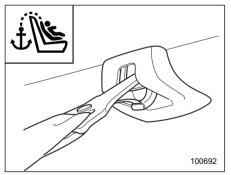
▼ To hook the top tether



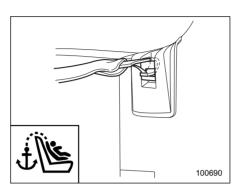
1. Remove the headrest at the windowside seating position where the child restraint system has been installed with the lower anchorages or seatbelt; lift up the headrest while pressing the release button. Store the headrest in the cargo area. Avoid placing the headrest in the passenger compartment to prevent it from being thrown around in the passenger compartment in a sudden stop or a sharp turn.



2. (For both window-side seating positions) Remove the cap from the anchor fitting cover by prying it with a screwdriver.







Window-side

 Attach the child restraint top tether hook to the appropriate upper anchorage.
 Tighten the top tether securely.

Please contact your Saab dealer if you have any question regarding the installation of a child restraint system.

Always remove the headrest when mounting a child restraint system with a top tether. Otherwise, the top tether cannot be fastened tightly.

*SRS airbag (Supplemental Restraint System airbag)

*SRS: This stands for supplemental restraint system. This name is used because the airbag system supplements the vehicle's seatbelts.

Your vehicle is equipped with a crash sensing and diagnostic module, which will record the use of the seatbelt(s) by the driver and front passenger when any of the SRS frontal and side airbags deploys.

Vehicle with driver's and front passenger's SRS airbags and lap/shoulder restraints

Your vehicle is equipped with a supplemental restraint system in addition to a lap/shoulder belt at each front seating position.

The supplemental restraint system (SRS) consists of four airbags (driver's and front passenger's **frontal** airbags and driver's and front passenger's **side** airbags).

These SRS airbags are designed only as a supplement to the primary protection provided by the seatbelt.

The system also controls front seatbelt pretensioners. For operation instructions

- CONTINUED -

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and precautions concerning the seatbelt pretensioner, see the "Front seatbelt pretensioners" section in this chapter.

• To obtain maximum protection in the event of an accident, the driver and all passengers in the vehicle should always wear seatbelts when the vehicle is moving. The SRS airbag is designed only as a supplement to the primary protection provided by the seatbelt. It does not do away with the need to fasten seatbelts. In combination with the seatbelts, it offers the best combined protection in case of a serious accident.

Not wearing a seatbelt increases the chance of severe injury or death in a crash even when the vehicle has the SRS airbag.

For instructions and precautions concerning the seatbelt system, see the "Seatbelts" section in this chapter. Do not sit or lean unnecessarily close to the SRS airbag. Because the SRS airbag deploys with considerable speed – faster than the blink of an eye – and force to protect in high speed collisions, the force of an airbag can injure an occupant whose body is too close to SRS airbag.

It is also important to wear your seatbelt to help avoid injuries that can result when the SRS airbag contacts an occupant not in proper position such as one thrown forward during pre-accident braking.

Even when properly positioned, there remains a possibility that an occupant may suffer minor injury such as abrasions and bruises to the face or arms because of the SRS airbag deployment force.

- The SRS airbags deploy with considerable speed and force. Occupants who are out of proper position when the SRS airbag deploys could suffer very serious injuries. Because the SRS airbag needs enough space for deployment, the driver should always sit upright and well back in the seat as far from the steering wheel as practical while still maintaining full vehicle control and the front passenger should move the seat as far back as possible and sit upright and well back in the seat.
- Do not place any objects over or near the SRS airbag cover or between you and the SRS airbag. If the SRS airbag deploys, those objects could interfere with its proper operation and could be propelled inside the vehicle and cause injury.



 Put children aged 12 and under in the rear seat properly restrained at all times. The SRS airbag deploys with considerable speed and force and can injure or even kill children, especially if they are 12 years of age and under and are not restrained or improperly restrained. Because children are lighter and weaker than adults, their risk of being injured from deployment is greater. Consequently, we strongly recommend that ALL children (including those in child seats and those that have outgrown child restraint devices) sit in the REAR seat properly restrained at all times in a child restraint device or in a seatbelt, whichever is appropriate for the child's age, height and weight.

Secure ALL types of child restraint devices (including forward facing child seats) in the REAR seats at all times.

According to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions.

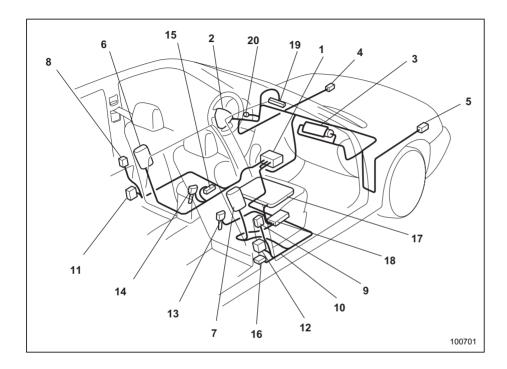
For instructions and precautions concerning the child restraint system, see the "Child restraint systems" section in this chapter.

• NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT SEAT. DOING SO RISKS SERIOUS INJURY OR DEATH TO THE CHILD BY PLACING THE CHILD'S HEAD TOO CLOSE TO THE SRS AIRBAG. Never allow a child to stand up, or to kneel on the front passenger's seat, or never hold a child on your lap or in your arms. The SRS airbag deploys with considerable force and can injure or even kill the child.

- When the SRS airbag deploys, some smoke will be released. This smoke could cause breathing problems for people with a history of asthma or other breathing trouble. If you or your passengers have breathing problems after SRS airbag deploys, get fresh air promptly.
- A deploying SRS airbag releases hot gas. Occupants could get burned if they come into direct contact with the hot gas.

NOTE

When you sell your vehicle, we urge you to explain to the buyer that it is equipped with SRS airbags by alerting him or her to the applicable section in this owner's manual.



- 1) Airbag control module (including impact sensors)
- 2) Frontal airbag module (driver's side)
- 3) Frontal airbag module (front passenger's side)
- 4) Front sub sensor (left-hand side)
- 5) Front sub sensor (right-hand side)
- 6) Side airbag module (driver's side)
- 7) Side airbag module (front passenger's side)
- 8) Side airbag sensor (center pillar lefthand side)
- 9) Side airbag sensor (center pillar right-hand side)
- 10) Airbag wiring (yellow)
- 11)Seatbelt pretensioner (driver's side)
- 12)Seatbelt pretensioner (front passenger's side)
- 13)Seatbelt buckle switch (front passenger's side)
- 14)Seatbelt buckle switch (driver's side)
- 15)Driver's seat position sensor
- 16)Front passenger's seatbelt tension sensor
- 17)Front passenger's occupant detection system weight sensor
- 18)Front passenger's occupant detection control module
- 19)Front passenger's frontal airbag ON and OFF indicator
- 20)SRS airbag system warning light

Saab advanced frontal airbag system

Your vehicle is equipped with a Saab advanced frontal airbag system that complies with the new advanced frontal airbag requirements in the amended Federal Motor Vehicle Safety Standard (FMVSS) No. 208.

The Saab advanced frontal airbag system automatically determines the deployment force of the driver's SRS frontal airbag at the time of deployment as well as whether or not to activate the front passenger's SRS frontal airbag and, if activated, the deployment force of the SRS frontal airbag at the time of deployment.

Your vehicle has warning labels on the driver's and front passenger's sun visors beginning with the phrase "EVEN WITH ADVANCED AIR BAGS" and a tag attached to the glove box lid beginning with the phrase "Even with Advanced Air Bags". Make sure that you carefully read the instructions on the warning labels and tag.

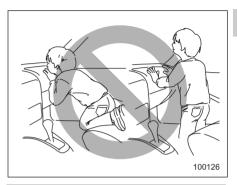
Always wear your seatbelt. The Saab advanced frontal airbag system is a supplemental restraint system and must be used in combination with a seatbelt. All occupants should wear a seatbelt or be seated in an appropriate child restraint system. The driver's SRS frontal airbag is stowed in the center portion of the steering wheel. The front passenger's SRS frontal airbag is stowed near the top of the dashboard under an "SRS AIRBAG" mark.

In a moderate to severe frontal collision, the driver's and front passenger's SRS frontal airbags deploy and supplement the seatbelts by reducing the impact on the driver's and front passenger's head and chest.



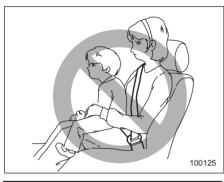
BY PLACING THE CHILD'S HEAD

TOO CLOSE TO THE SRS AIRBAG.



Never allow a child to stand up, or to kneel on the front passenger's seat. The SRS airbag deploys with considerable force and can injure or even kill the child.

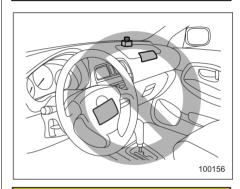
1-38 Seat, seatbelt and SRS airbags



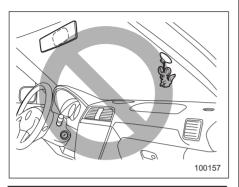
Never hold a child on your lap or in your arms. The SRS airbag deploys with considerable force and can injure or even kill the child.



The SRS airbag deploys with considerable speed and force. Occupants who are out of proper position when the SRS airbag deploys could suffer very serious injuries. Because the SRS airbag needs enough space for deployment, the driver should always sit upright and well back in the seat as far from the steering wheel as practical while still maintaining full vehicle control and the front passenger should move the seat as far back as possible and sit upright and well back in the seat. It is also important to wear your seatbelt to help avoid injuries that can result when the SRS airbag contacts an occupant not in proper position such as one thrown toward the front of the vehicle during preaccident braking.



Do not put any objects over the steering wheel pad and dashboard. If the SRS frontal airbag deploys, those objects could interfere with its proper operation and could be propelled inside the vehicle and cause injury.



Do not attach accessories to the windshield, or fit an extra-wide mirror over the rear view mirror. If the SRS airbag deploys, those objects could become projectiles that could seriously injure vehicle occupants.

▼ Driver's SRS frontal airbag

The driver's SRS frontal airbag uses a dual stage inflator. The inflator operates in different ways depending on the severity of impact, backward-forward adjustment of the driver's seat position and whether or not he/she is wearing the seatbelt.

The backward-forward adjustment of the driver's seat position is monitored by the

driver's seat position sensor under the driver's seat.

Whether or not the driver is wearing the seatbelt is monitored by the seatbelt buck-le switch.

Observe the following precautions. Failure to do so may cause the seatbelt buckle switch and/or the seat position sensor to malfunction, preventing the Saab advanced frontal airbag system from functioning correctly or causing the system to fail.

• Do not place articles/metal objects or install any accessory other than a genuine Saab accessory under the driver's seat. Do not allow the rear seat occupant to kick the driver's seat or push up its bottom surface with his/her feet.

• Do not place a magnet near the seatbelt buckle or under the driver's seat.

If the seatbelt buckle switch and/or the driver's seat position sensor have failed, the SRS airbag system warning light will illuminate. Although the driver's SRS frontal airbag can deploy regardless of the backward-forward adjustment of the driver's seat position even when the warning light is on, have the system inspected by your Saab dealer immediately if the SRS airbag system warning light comes on.

NOTE

The driver's SRS side airbag and seatbelt pretensioner are not controlled by the Saab advanced frontal airbag system.

Front passenger's SRS frontal airbag

The front passenger's SRS frontal airbag uses a dual stage inflator. The inflator operates in different ways depending on the severity of impact.

The total load on the seat is monitored by the occupant detection system's weight sensor located under the seat.

The system has another sensor that monitors the tension of the front passenger seatbelt. Using the total seat load and seatbelt tension data from the sensors, the occupant detection system determines whether the front passenger's SRS frontal airbag should or should not be inflated.

The occupant detection system may not inflate the front passenger's SRS frontal airbag even when the driver's SRS frontal airbag deploys. This is normal.

Observe the following precautions. Failure to do so may prevent the Saab advanced frontal airbag system from functioning correctly or cause the system to fail.

• Do not apply any strong impact to the

1-40 Seat, seatbelt and SRS airbags

front passenger's seat such as by kicking.

• Do not spill liquid on the front passenger's seat. If liquid is spilled, wipe it off immediately.

• Do not disassemble the front passenger's seat.

• Do not install any accessory (such as an audio amplifier) other than a genuine Saab accessory under the front passenger's seat.

• Do not place anything (shoes, umbrella, etc.) under the front passenger's seat.

• The front passenger's seat must not be used with the head restraint removed.

• Do not leave any article including a child restraint system on the front passenger's seat or the seatbelt tongue and buckle engaged when you leave your vehicle.

• Do not place a magnet near the seatbelt buckle and the seatbelt retractor.

• Do not use front seats with their backward-forward position and seatback not being locked into place securely. If any of them are not locked securely, adjust them again. For adjusting procedure, refer to the "Front seats" section in this chapter.

• If you use an optional seatbelt extender, remove it after each use. (Refer to the "Seatbelt extender" section in this chapter.)

If the seatbelt buckle switch and/or front passenger's occupant detection system

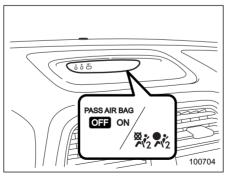
have failed, the SRS airbag system warning light will illuminate. Have the system inspected by your Saab dealer immediately if the SRS airbag system warning light comes on.

If your vehicle has sustained impact, this may affect the proper function of the Saab advanced frontal airbag system. Have your vehicle inspected at your Saab dealer.

NOTE

The front passenger's SRS side airbag and seatbelt pretensioner are not controlled by the Saab advanced frontal airbag system.

Passenger's frontal airbag ON and OFF indicators



- ON or :Front passenger's frontal airbag ON indicator
- •Front passenger's frontal airbag OFF indicator

The front passenger's frontal airbag ON and OFF indicators show you the status of the front passenger's SRS frontal airbag. The indicators are located in the center portion of the instrument panel.

When the ignition switch is turned to the "ON" position, both the ON and OFF indicators illuminate for 6 seconds during which time the system is checked. Following the system check, both indicators extinguish for 2 seconds. After that, one of the indicators illuminates depending on the status of the front passenger's SRS frontal airbag determined by the Saab advanced frontal airbag system monitoring. If the front passenger's SRS frontal airbag is activated, the passenger's frontal airbag ON indicator will illuminate while the OFF indicator will remain extinguished. If the front passenger's SRS frontal airbag

is deactivated, the passenger's frontal airbag is deactivated, the passenger's frontal airbag ON indicator will remain extinguished while the OFF indicator will illuminate. If both the ON and OFF indicators remain lit or extinguished simultaneously, the system is faulty. Contact your Saab dealer immediately for an inspection.

Conditions in which front passenger's SRS frontal airbag is not activated

The front passenger's SRS frontal airbag will not be activated when any of the following conditions are met regarding the front passenger's seat:

• The seat is empty.

• The seat is equipped with a rearward facing child restraint system and an infant is restrained with it. (See WARNING that follows.)

• The seat is equipped with a forward facing child restraint system and a small child is restrained with it. (See WARNING that follows.)

• The seat is equipped with a booster seat and a small child is in the booster seat. (See WARNING that follows.)

• The seat is relieved of the occupant load for a time exceeding the predetermined monitoring time period.

• The seat is occupied by a child who has outgrown a child restraint system (See WARNING that follows.) or by a small adult.

• The front passenger's occupant detection system is faulty.

NEVER INSTALL A REARWARD FACING CHILD SEAT IN THE FRONT PASSENGER'S SEAT EVEN IF THE FRONT PASSENGER'S SRS FRON-TAL AIRBAG IS DEACTIVATED. Be sure to install it in the REAR seat in a correct manner. Also, it is strongly recommended that any forward facing child seat or booster seat be installed in the REAR seat. and that even children who have outgrown a child restraint system be also seated in a REAR seat. This is because children sitting in the front passenger's seat may be killed or severely injured should the front passenger's SRS frontal airbag deploy, REAR seats are the safest place for children.

When the front passenger's seat is occupied by a child, observe the following precautions. Failure to do so may increase the load on the front passenger's seat, activating the front passenger's SRS frontal airbag even though that seat is occupied by a child.

• Do not place any article on the seat other than the child occupant and a child restraint system.

• Do not place more than one child on the seat.

• Do not install any accessory such as a table or TV onto the seatback.

• Do not store a heavy load in the seatback pocket.

• Do not allow the rear seat occupant to place his/her hands or legs on the front passenger's seatback, or allow him/her to pull the seatback.

▽ If the front passenger's frontal airbag ON indicator illuminates and the OFF indicator extinguishes even when an infant or a small child is in a child restraint system (including booster seat)

Turn the ignition switch to the "OFF" position if the front passenger's frontal airbag ON indicator illuminates and the OFF indicator extinguishes even when an infant or a small child is in a child restraint system (including booster seat). Remove the child restraint system from the seat. By referring to the child restraint manufacturer's recommendations as well as the child restraint system installation procedures in the "Child restraint systems" section in this chapter, correctly install the child restraint system. Turn the ignition switch to the "ON" position and make sure that the front passenger's frontal airbag ON indicator goes out and the OFF indicator comes on.

1-42 Seat, seatbelt and SRS airbags

If still the ON indicator remains illuminated while the OFF indicator extinguishes, take the following actions.

• Ensure that no article is placed on the seat other than the child restraint system and the child occupant.

• Ensure that there is no article left in the seatback pocket.

• Ensure that the backward-forward position and seatback of front passenger's seat are locked into place securely by moving the seat back and forth.

If the ON indicator still illuminates while the OFF indicator extinguishes after taking relevant corrective actions described above, relocate the child restraint system to one of the rear seating positions recommended in this owner's manual and immediately contact your Saab dealer for an inspection.

NOTE

When a child who has outgrown a child restraint system or a small adult is seated in the front passenger's seat, the Saab advanced frontal airbag system may or may not activate the front passenger's SRS frontal airbag depending on the occupant's seating posture. If the front passenger's SRS frontal airbag is activated (the ON indicator illuminates while the OFF indicator extinguishes), take the following actions.

• Ensure that no article is placed on the seat other than the occupant.

• Ensure that there is no article left in the seatback pocket.

If the ON indicator still illuminates while the OFF indicator extinguishes despite the fact that the actions noted above have been taken, seat the child/ small adult in the rear seat and immediately contact your Saab dealer for an inspection. Even if the system has passed the dealer inspection, it is recommended that on subsequent trips the child/small adult always take the rear seat.

Children who have outgrown a child restraint system should always wear the seatbelt irrespective of whether the airbag is deactivated or activated.

▼ Conditions in which front passenger's SRS frontal airbag is activated

The front passenger's SRS frontal airbag will be activated for deployment upon impact when any of the following conditions is met regarding the front passenger's seat.

When the seat is occupied by an adult.

• When a heavy article is placed on the seat.

When the front passenger's seat is occupied by an adult, observe the following precautions. Failure to do so may lessen the load on the front passenger's seat, deactivating the front passenger's SRS frontal airbag despite the fact that the seat is occupied by an adult.

• Do not allow the rear seat occupant to lift the front passenger's seat cushion using his/her feet.

• Do not place any article under the front passenger's seat, or squeeze any article from behind and under the seat. This may lift the seat cushion.

• Do not squeeze any article between the front passenger's seat and side trim/pillar, door or center console box. This may lift the seat cushion.

▽ If the passenger's frontal airbag OFF indicator illuminates and the ON indicator extinguishes even when the front passenger's seat is occupied by an adult

This can be caused by the adult incorrectly sitting in the front passenger's seat. Turn the ignition switch to the "OFF" position. Ask the front passenger to set the seatback to the upright position, sit up straight in the center of the seat cushion, correctly fasten the seatbelt, position his/ her legs out forward, and adjust the seat to the rearmost position. Turn the ignition switch to the "ON" position. If the OFF indicator remains illuminated while the ON indicator remains extinguished, take the following actions.

• Turn the ignition switch to the "OFF" position.

• Ensure that there is no article, book, shoe, or other object trapped under the seat, at the rear of the seat, or on the side of the seat.

• Ensure that the backward-forward position and seatback of front passenger's seat are locked into place securely by moving the seat back and forth.

• Turn the ignition switch to the "ON" position and wait 6 seconds to allow the system to complete self-checking. Following the system check, both indicators extinguish for 2 seconds. Now, the ON indicator should illuminate while the OFF indicator remains extinguished.

If the OFF indicator still illuminates while the ON indicator remains extinguished, ask the occupant to move to the rear seat and immediately contact your Saab dealer for an inspection.

▼ Effect vehicle modifications made for persons with disabilities may have on Saab advanced frontal airbag system operation (U.S. only)

Changing or moving any parts of the front seats, seatbelts, front bumper, front side frame, instrument panel, combination meter, steering wheel, steering column, tire, suspension or floor panel can affect the operation of the Saab advanced airbag system. If you have any questions, you may contact the following Saab distributors:

▼ Reporting Safety Defects (USA)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Saab Cars USA, Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Saab Cars USA, Inc.

To contact NHTSA, you may call the tollfree Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153; go to *http://* *www.safercar.gov*; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington D.C. 20590. You can also obtain other information about motor vehicle safety from *http:// www safercar.gov*.

Reporting Safety Defects to the Canadian government

If you live in Canada, and believe that your vehicle has a safety defect, you should immediately notify Transport Canada, in addition to notifying General Motors of Canada Limited.

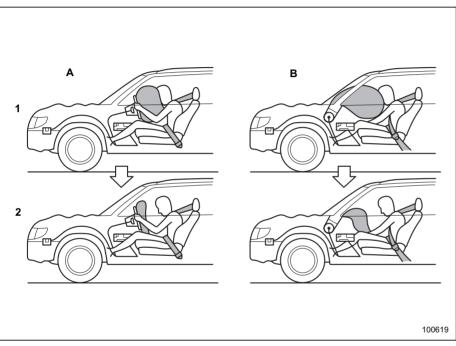
You may write to Transport Canada at Box 8880, Ottawa, Ontario, K1G 3J2. In addition to notifying Transport Canada in a situation like this, we certainly hope you will notify us. In Canada, please call our Saab Customer Assistance Centre at 1-800-263-1999.

Or write:

General Motors of Canada Limited Customer Assistance Centre, 1908 Colonel Sam Drive, Oshawa, Ontario, L1H 8P7.

1-44 Seat, seatbelt and SRS airbags

▼ Operation



A) Driver's side

- B) Passenger's side
- 1) SRS AIRBAGs deploy as soon as a collision occurs.
- 2) After deployment, SRS AIRBAGs start to deflate immediately so that the driver's vision is not obstructed.

The SRS airbag can function only when the ignition switch is in the "ON" position. The Saab advanced frontal airbag system is designed to determine the activation or deactivation condition of the front passenger's SRS frontal airbag depending on the total load on the front passenger's seat monitored by the front passenger's occupant detection system weight sensor. For this reason, only the driver's SRS frontal airbag may deploy in the event of a collision, but this does not mean failure of the system.

If the front sub sensors inside both front fenders and the impact sensors in the airbag control module detect a predetermined amount of force during a frontal collision, the control module sends signals to the airbag module(s) (only driver's module or both driver's and front passenger's modules) instructing the module(s) to inflate the SRS frontal airbag(s). The driver's and front passenger's SRS frontal airbags use dual stage inflators. The two inflators of each airbag are triggered either sequentially or simultaneously, depending on the severity of impact, backward-forward adjustment of the driver's seat position and fastening/unfastening of the seatbelt in the case of the driver's SRS frontal airbag and depending on the severity of impact and the total load on the seat in the

case of the front passenger's SRS frontal airbag. After deployment, the SRS airbag immediately starts to deflate so that the driver's vision is not obstructed. The time required from detecting impact to the deflation of the SRS airbag after deployment is shorter than the blink of an eye.

Both when only the driver's SRS frontal airbag deploys and the driver's and front passenger's SRS frontal airbags deploy, the driver's and front passenger's seatbelt pretensioners operate at the same time.

Although it is highly unlikely that the SRS airbag would activate in a non-accident situation, should it occur, the SRS airbag will deflate quickly, not obscuring vision and will not interfere with the driver's ability to maintain control of the vehicle.

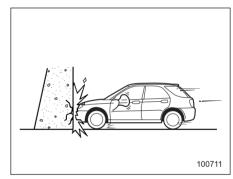
When the SRS airbag deploys, a sudden, fairly loud inflation noise will be heard and some smoke will be released. These occurrences are a normal result of the deployment. This smoke does not indicate a fire in the vehicle.

Do not touch the SRS airbag system components around the steering wheel and dashboard with bare hands right after deployment. Doing so can cause burns because the components can be very hot as a result of deployment.

The driver's SRS frontal airbag and front passenger's SRS frontal airbag are designed to deploy in the event of an accident involving a moderate to severe frontal collision. It is basically not designed to deploy in lesser frontal impacts because the necessary protection can be achieved by the seatbelt alone. Also, they are basically not designed to deploy in side or rear impacts or in roll-over accidents because deployment of only the driver's SRS frontal airbag or both driver's and front passenger's SRS frontal airbags would not help the occupant in those situations. The driver's and front passenger's SRS frontal airbags are designed to function on a onetime-only basis.

SRS airbag deployment depends on the level of force experienced in the passenger compartment during a collision. That level differs from one type of collision to another, and it may have no bearing on the visible damage done to the vehicle it-self.

▽ Examples of accident in which the driver's/driver's and front passenger's SRS frontal airbag(s) will most likely deploy.



A head-on collision against a thick concrete wall at a vehicle speed of 12 to 19 mph (20 to 30 km/h) or higher activates only the driver's SRS frontal airbag or both driver's and front passenger's SRS frontal airbags. The airbag(s) will also be activated when the vehicle is exposed to a frontal impact similar in fashion and magnitude to the collision described above.

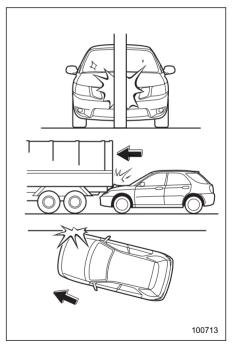
1-46 Seat, seatbelt and SRS airbags

▽ Examples of the types of accidents in which it is possible that the driver's/driver's and front passenger's SRS frontal airbag(s) will deploy.

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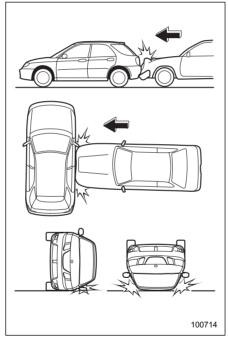
The only the driver's SRS frontal airbag or both driver's and front passenger's SRS

frontal airbags may be activated when the vehicle sustains a hard impact in the undercarriage area from the road surface (such as when the vehicle plunges into a deep ditch, is severely impacted or knocked hard against an obstacle on the road such as a curb). ▽ Examples of the types of accidents in which deployment of the driver's/ driver's and front passenger's SRS frontal airbag(s) is unlikely to deploy.



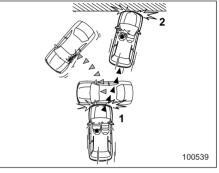
There are many types of collisions which

might not necessarily require deployment of driver's/driver's and front passenger's SRS frontal airbag(s). If the vehicle strikes an object, such as a telephone pole or sign pole, or if it slides under a truck's load bed, or if it sustains an oblique offset frontal impact, the driver's/driver's and front passenger's SRS frontal airbag(s) may not deploy depending on the level of accident forces involved. ▽ Examples of the types of accidents in which the driver's/driver's and front passenger's SRS frontal airbag(s) will basically not deploy.



The driver's and front passenger's SRS frontal airbags are designed basically not

to deploy if the vehicle is struck from the side or from behind, or if it rolls onto its side or roof, or if it is involved in a lowspeed frontal collision.



First impact
 Second impact

In an accident where the vehicle is impacted more than once, the driver's and/or front passenger's SRS frontal airbag(s) will deploy only once on the first impact.

Example: In the case of a double collision, first with another vehicle, then against a concrete wall in immediate succession, once either or both of the driver's and front passenger's SRS frontal airbags is/are activated on the first impact, it/they will not be activated on the second impact.

1-48 Seat, seatbelt and SRS airbags

SRS side airbag

The SRS side airbag is stored in the door side of each front seat seatback, which bears an "SRS AIRBAG" label.

In a moderate to severe side impact collision, the SRS side airbag on the impacted side of the vehicle deploys between the occupant and the door panel and supplements the seatbelt by reducing the impact on the occupant's chest and head.

The SRS side airbag is designed as only a supplement to the primary protection provided by the seatbelt. They do not do away with the need to fasten seatbelts. It is also important to wear your seatbelt to help avoid injuries that can result when an occupant is not seated in a proper upright position.



Do not sit or lean unnecessarily close to either front door. The SRS side airbag is stored in both front seat seatbacks next to the door, and it provides protection by deploying rapidly (faster than the blink of an eye) in the event of a side impact collision. However, the force of SRS side airbag deployment may cause injuries if your head or other parts of the body are too close to the SRS side airbag.

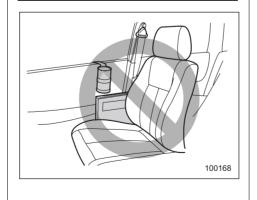


Do not rest your arm on either front door or its internal trim. It could be injured in the event of SRS side airbag deployment.

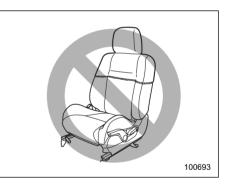




Never allow a child to kneel on the front passenger's seat facing the side window or to wrap his/her arms around the front seat seatback. In the event of an accident, the force of the SRS side airbag deployment could injure the child seriously because his/her head or arms or other parts of the body are too close to the SRS side airbag. Since your vehicle is also equipped with a passenger's SRS frontal airbag, children aged 12 and under should be placed in the rear seat anyway and should be properly restrained at all times.



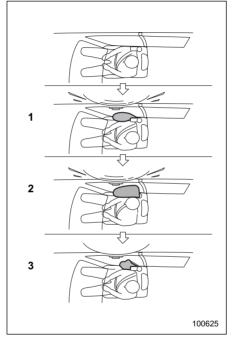
Do not attach accessories to the door trim or near either SRS side airbags and do not place objects near the SRS side airbags. In the event of the SRS side airbag deployment, they could be propelled dangerously toward the vehicle's occupants and cause injuries.



1-50 Seat, seatbelt and SRS airbags

Do not put any kind of cover or clothes or other objects over either front seatback and do not attach labels or stickers to the front seat surface on or near the SRS side airbag. They could prevent proper deployment of the SRS side airbag, reducing protection available to the front seat's occupant.

Operation



- 1) SRS side airbag deploys as soon as a collision occurs.
- 2) SRS side airbag protects the front passenger's head and chest.
- After deployment, SRS side airbag starts to deflate immediately.

The SRS side airbag is designed to function only when the ignition switch is in the "ON" position.

The driver's and front passenger's SRS side airbags deploy independently of each other since each has its own impact sensor. Also, the SRS side airbag deploys independently of the frontal airbags in the steering wheel and instrument panel.

An impact sensor is incorporated into each of the vehicle's center pillars. If either sensor detects a certain predetermined amount of force during a side impact collision, the control module sends a signal to the side airbag module on the impacted side of the vehicle, instructing it to inflate the SRS side airbag. Then the side airbag module produces gas, which instantly inflates the SRS side airbag. After deployment, the SRS side airbag will deflate in a few seconds.

The SRS side airbag deploys even when no one occupies the seat on the side on which an impact is applied.

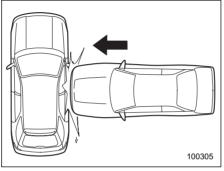
When the SRS side airbag deploys, a sudden, fairly loud inflation noise will be heard and some smoke will be released. These occurrences are normal result of the deployment. This smoke does not indicate a fire in the vehicle.

Do not touch the SRS side airbag system components around the front seat seatback with bare hands right after deployment. Doing so can cause burns because the components can be very hot as a result of deployment.

The SRS side airbag is designed to deploy in the event of an accident involving a moderate to severe side impact collision. It is basically not designed to deploy in a lesser side impact. Also, it is basically not designed to deploy in frontal or rear impacts because SRS side airbag deployment would not help the occupant in those situations.

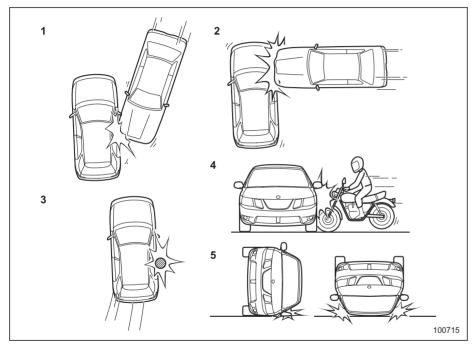
Each SRS side airbag is designed to function on a one-time-only basis.

SRS side airbag deployment depends on the level of force experienced in the passenger compartment during a side impact collision. That level differs from one type of collision to another, and it may have no bearing on the visible damage done to the vehicle itself.



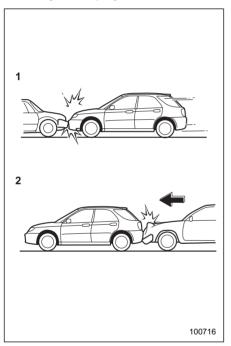
A severe side impact near the front seat activates the SRS side airbag.

 ∇ Examples of the types of accidents in which the SRS side airbag is unlikely to deploy.



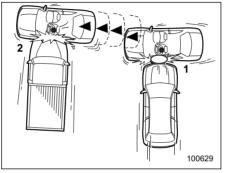
- 1) The vehicle is involved in an oblique side-on impact.
- The vehicle is involved in a side-on impact in an area outside the vicinity of the passenger compartment.
- 3) The vehicle strikes a telephone pole or similar object.
- 4) The vehicle is involved in a side-on impact from a motorcycle.
- 5) The vehicle rolls onto its side or roof.

There are many types of collisions which might not necessarily require SRS side airbag deployment. In the event of accidents like those illustrated, the SRS side airbag may not deploy depending on the level of accident forces involved. ✓ Examples of the types of accidents_ in which the SRS side airbag will basically not deploy.



- The vehicle is involved in a frontal collision with another vehicle (moving or stationary).
- 2) The vehicle is struck from behind.

The SRS side airbag is basically not designed to deploy if the vehicle is involved in a frontal collision or is struck from behind. Examples of such accidents are illustrated.

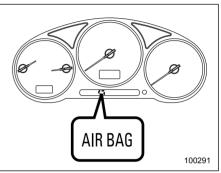


First impact
 Second impact

In an accident where the vehicle is struck from the side more than once, the SRS side airbag deploys only once.

Example: In the case of a double side impact collision, first with one vehicle and immediately followed by another from the same direction, once the SRS side airbag is activated on the first impact, it will not be activated on the second.

SRS airbag system monitors



A diagnostic system continually monitors the readiness of the SRS airbag system (including front seatbelt pretensioners) while the vehicle is being driven. The SRS airbag system warning light "AIRBAG" will show normal system operation by lighting for approximately 6 seconds when the ignition switch is turned to the "ON" position.

The following components are monitored by the indicator:

- Front sub sensor (Right-hand side)
- Front sub sensor (Left-hand side)
- Airbag control module (including impact sensors)
- Frontal airbag module (Driver's side)
- Frontal airbag module (Front passenger's side)

1-54 Seat, seatbelt and SRS airbags

• Side airbag sensor (Center pillar righthand side)

• Side airbag sensor (Center pillar lefthand side)

• Side airbag module (Driver's side)

• Side airbag module (Front passenger's side)

• Seatbelt pretensioner (Driver's side)

• Seatbelt pretensioner (Front passenger's side)

• Seatbelt buckle switch (Driver's side)

• Seatbelt buckle switch (Front passenger's side)

Driver's seat position sensor

 Front passenger's seatbelt tension sensor

• Front passenger's occupant detection system weight sensor

• Front passenger's occupant detection control module

• Front passenger's frontal airbag ON and OFF indicator

• All related wiring

If the warning light exhibits any of the following conditions, there may be a malfunction in the seatbelt pretensioners and/or SRS airbag system. Immediately take your vehicle to your nearest Saab dealer to have the system checked. Unless checked and properly repaired, the seatbelt pretensioners and/or SRS airbag will not operate properly in the event of a collision, which may increase the risk of injury.

- Flashing or flickering of the warning light
- No illumination of the warning light when the ignition switch is first turned to the "ON" position
- Continuous illumination of the warning light
- Illumination of the warning light while driving

SRS airbag system servicing

- When discarding an airbag module or scrapping the entire vehicle damaged by a collision, consult your Saab dealer.
- · The SRS airbag has no user-serviceable parts. Do not use electrical test equipment on any circuit related to the SRS airbag system. For required servicing of the SRS airbag, see your nearest Saab dealer. Tampering with or disconnecting the system's wiring could result in accidental inflation of the SRS airbag or could make the system inoperative, which may result in serious injury. The wiring harnesses of the SRS airbag system are covered with vellow insulation and system connectors are yellow for easy identification.

If you need service or repair in areas listed in the following, have an authorized Saab dealer perform the work. The SRS airbag control module, impact sensors and airbag modules are stored in these areas.

- Under the center console
- Inside each front fender
- Steering wheel and column and nearby areas
- Top of the dashboard on front passenger's side and nearby areas
- Each front seat and nearby area
- Inside each center pillar

In the event that the SRS airbag is deployed, replacement of the system should be performed only by an authorized Saab dealer. When the components of the SRS airbag system are replaced, use only genuine Saab parts.

To ensure their long-term reliability, the SRS airbags must be inspected by a Saab dealer ten years after the date of manufacture, which is shown on the certification plate attached to the driver's door jamb.

NOTE

In the following cases, contact your Saab dealer as soon as possible.

• The front part of the vehicle was involved in an accident in which only the driver's SRS frontal airbag or both driver's and front passenger's SRS frontal airbags did not deploy.

• The pad section of the steering wheel or front passenger's frontal airbag cover is scratched, cracked, or otherwise damaged.

In addition, if your vehicle is equipped with SRS side airbags, contact your Saab dealer as soon as possible in the following cases.

• Either center pillar or a nearby area of the vehicle was involved in an accident in which the SRS side airbag did not deploy.

• The fabric or leather of either front seatback is cut, frayed, or otherwise damaged.

Precautions against vehicle modification

 To avoid accidental activation of the system or rendering the system inoperative, which may result in serious injury, no modifications should be made to any components or wiring of the SRS airbag system.

This includes following modifications:

- Installation of custom steering wheels
- Attachment of additional trim materials to the dashboard
- Installation of custom seats
- Replacement of seat fabric or leather
- Installation of additional fabric or leather on the front seat

 Installation of additional electrical/electronic equipment such as a mobile two-way radio on or near the SRS airbag system components and/or wiring is not advisable. This could interfere with proper operation of the SRS airbag system.

Do not perform any of the following modifications. Such modifications can interfere with proper operation of the SRS airbag system.

- Attachment of any equipment (brush bar, winches, snow plow, skid plate, etc.) other than genuine Saab accessory parts to the front end.
- Modification of the suspension system or front end structure.
- Installation of a tire of different size and construction from the tires specified on the tire label attached to the driver's door pillar or specified for individual vehicle models in this Owner's Manual.

• Attachment of any equipment (side steps or side sill protectors, etc.) other than genuine Saab accessory parts to the side body.

Always consult your Saab dealer if you want to install any accessory parts on your vehicle.

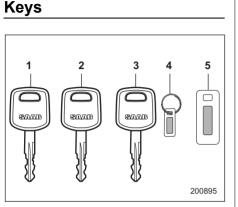
Keys and doors

2

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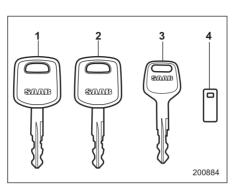
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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).



Turbo models

- 1) Master key
- 2) Submaster key
- 3) Valet key
- 4) Key number plate
- 5) Security ID plate



Non-turbo models

- 1) Master key
- 2) Submaster key
- 3) Valet key
- 4) Key number plate

Three types of keys are provided for your vehicle:

Master key and valet key.

The master key fit all locks on your vehicle.

- Ignition switch
- Doors
- Glove box

The valet key fits only the ignition switch and door lock. You can keep the trunk and glove box locked when you leave your vehicle and valet key at a parking facility.

Do not attach a large key holder or key case to either key. If it bangs against your knees while you are driving, it could turn the ignition switch from the ON position to the ACC or OFF position, thereby stopping the engine.

■ Key number

The key number is stamped on the key number plate attached to the key set. Write down the key number and keep it in another safe place, not in the vehicle. This number is needed to make a replacement key if you lose your key or lock it inside the vehicle.

For information on making replacement keys for vehicles with the immobilizer system, refer to the "Immobilizer (Turbo models)" section in this chapter.

Immobilizer (Turbo models)

The immobilizer system is designed to prevent an unauthorized person from starting the engine. Only keys registered with your vehicle's immobilizer system can be used to operate your vehicle. Even if an unregistered key fits into the ignition switch and can be turned to the "START" position, the engine will automatically stop after several seconds.

Each immobilizer key contains a transponder in which the key's ID code is stored. When a key is inserted into the ignition switch and turned to the "ON" position, the transponder transmits the key's ID code to the immobilizer system's receiver. If the transmitted ID code matches the ID code registered in the immobilizer system, the system allows the engine to be started. Since the ID code is transmitted and acted upon almost instantly, the immobilizer system does not impede normal starting of the engine.

If the engine fails to start, pull out the key once before trying again. (Refer to the "Ignition switch" section [chapter 3].)

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

To protect your vehicle from theft, please pay close attention to the following security precautions:

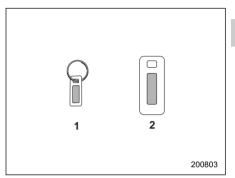
• Never leave your vehicle unattended with its keys inside.

• Before leaving your vehicle, close all windows and lock the doors and rear gate.

• Do not leave spare keys or any record of your key number in the vehicle.

- Do not place the key under direct sunlight or anywhere it may become hot.
- Do not get the key wet. If the key gets wet, wipe it dry with a cloth immediately.

Security ID plate



1) Key number plate

2) Security ID plate

The security ID is stamped on the security ID plate attached to the key set. Write down the security ID and keep it in another safe place, not in the vehicle. This number is needed to make a replacement key if you lose your key or lock it inside the vehicle.

This number is also needed for replacement or repair of the engine control module and immobilizer control module.

Security indicator light

SECURITY

The security indicator light deters potential thieves by indicating that the vehicle is

2-4 Keys and doors

equipped with an immobilizer system. It begins flashing (approximately once every three seconds) approximately 60 seconds after the ignition switch is turned from the "ON" position to the "ACC" or "LOCK" position or immediately after the key is pulled out.

If the security indicator light does not flash, the immobilizer system may be faulty. If this occurs, we recommend that you contact your Saab dealer as soon as possible.

In case an unauthorized key is used (e.g. an imitation key), the security indicator light comes on.

NOTE

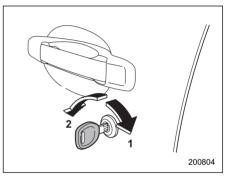
Even if the security indicator light flashes irregularly or its fuse blows (the light does not flash if its fuse is blown), the immobilizer system will function normally.

Key replacement

Your key number and security ID will be required if you ever need a replacement key made. Any new key must be registered for use with your vehicle's immobilizer system before it can be used. Up to four keys can be registered for use with one vehicle. For security, all the keys registered with your vehicle's immobilizer system will have their ID codes erased and re-registered when a new key is made. Therefore, all of your vehicle's keys must be presented when a new key is registered. Any key that is not re-registered when a new key is made cannot be used after the other keys are re-registered. For information on replacement keys and on the registration of keys with your immobilizer system, contact your Saab dealer.

Door locks

Locking and unlocking from the outside

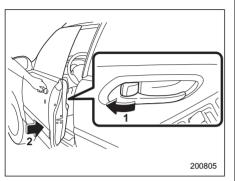


1) Lock 2) Unlock

To lock the driver's door from the outside with the key, turn the key toward the rear. To unlock the door, turn the key toward the front.

Pull the outside door handle to open an unlocked door.

Always make sure that all doors and the rear liftgate are locked before leaving your vehicle.



1) Rotate the lock lever rearward.

2) Close the door.

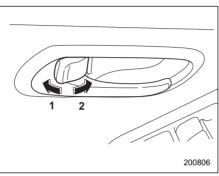
To lock the door from the outside without the key, rotate the lock lever rearward and then close the door.

To lock the door from the outside using the power door locking switch, push the front side of the switch ("LOCK" side) and then close the door. In this case, all closed doors and the rear liftgate are locked at the same time.

NOTE

Make sure that you do not leave the key inside the vehicle when locking the doors from the outside without the key.

Locking and unlocking from the inside



Lock
 Unlock

To lock the door from the inside, rotate the lock lever rearward. To unlock the door from the inside, rotate the lock lever forward.

The red mark on the lock lever appears when the door is unlocked.

Pull the inside door handle to open an unlocked door.

Always make sure that all doors and the rear liftgate are closed before starting to drive.

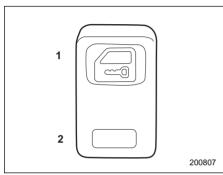
WARNING

Keep all doors locked when you drive, especially when small children are in your vehicle.

Along with the proper use of seatbelts and child restraints, locking the doors reduces the chance of being thrown out of the vehicle in an accident.

It also helps prevent passengers from falling out if a door is accidentally opened, and intruders from unexpectedly opening doors and entering your vehicle.

Power door locking switches



- 1) Lock
- 2) Unlock

All doors and the rear liftgate can be locked and unlocked by the power door locking switches located at the driver's side and the front passenger's side doors.

To lock the doors, push the front side of the switch.

To unlock the doors, push the rear side of the switch.

When you close the doors after you set the door locks, the doors remain locked.

NOTE Make sure that you do not leave the key

inside the vehicle before locking the doors from the outside using the power door locking switches.

Key lock-in prevention function

This function prevents the doors from being locked with the key still in the ignition switch.

▼ Behavior with key lock-in prevention function operative

With the driver's door open, the doors are automatically kept unlocked even if the door locking switch is pushed to the front ("LOCK") position.

▼ Behavior with key lock-in prevention function non-operative

• If the lock lever is turned to the rear ("LOCK") position with the driver's door open and the driver's door is then closed with the lock lever in that position, the driver's door is locked.

• If the spare key is used to lock the driver's door from the outside of the vehicle, the door is locked.

This function's operative/non-operative setting can be changed by a Saab dealer. Contact a Saab dealer for details.

NOTE

When leaving the vehicle, make sure you are holding the key before locking the doors.

Remote keyless entry system

Two transmitters are provided for your vehicle.

The remote keyless entry system has the following functions.

• Locking and unlocking the doors (and rear liftgate) without a key

Sounding a panic alarm

• Arming and disarming the alarm system. See the next section "Alarm system" for detailed information.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

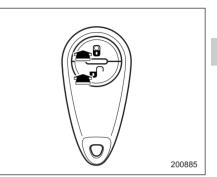
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The operable distance of the keyless entry system is approximately 30 feet (10 meters). However, this distance will vary depending on environmental conditions.

The system's operable distance will be shorter in areas near a facility or electronic equipment emitting strong radio waves such as a power plant, broadcast station, TV tower, or remote controller of home electronic appliances.

The remote keyless entry system does not operate when the key is inserted in the ignition switch to prevent accidental lockout.

- Do not expose the transmitter to severe shocks, such as those experienced as a result of dropping or throwing.
- Do not take the transmitter apart except when replacing the battery.
- Do not get the transmitter wet. If it gets wet, wipe it dry with a cloth immediately.



CLOCK/ARM button Press to Lock all doors. Press and Hold to activate panic alarm.

Press three times in a five-second period to use vehicle finder function.



- : UNLOCK/DISARM button
 - 1) Press once to Unlock driver's door.
 - Press a second time to Unlock all other doors (and rear liftgate).

Locking the doors

Briefly press the " 🗑 " button (for less than two seconds) to lock all doors (and rear liftgate).

An electronic chirp will sound once and the turn signal lights will flash once.

2-8 Keys and doors

If any of the doors is not fully closed, an electronic chirp will sound five times and the turn signal lights will flash five times to alert you that the doors are not properly closed. When you close the door, it will automatically lock.

NOTE

If the " <table-cell> " button is pressed for two seconds or longer, the panic alarm will sound. When locking the doors in normal circumstances, press the " 🖬 " button for less than two seconds. For details on the panic alarm, refer to "Sounding a panic alarm".

Unlocking the doors

Briefly press the " **o** " button (for less than two seconds) to unlock the driver's door. An electronic chirp will sound twice and the turn signal lights will flash twice. To unlock all other doors (and rear lift-gate), briefly press the " **o** " button a second time within 5 seconds.

NOTE

If the interval between the first and second presses of the " \mathbf{v} " button (for unlocking of all of the doors and the rear liftgate) is extremely short, the system may not respond.

Illuminated entry

The interior (dome) light and ignition switch light (for turbo models) will illuminate when the " \bullet " button is pressed. These lights stay illuminated for approximately 30 seconds if any of the doors (or the rear liftgate) is not opened.

If the " **D**" button is pressed before 30 seconds have elapsed, these lights will go out. Also, these lights will go out if the key is inserted in the ignition switch. The interior light switch must be set to **the middle position** in order for this function to operate.

■ Vehicle finder function

Use this function to find your vehicle parked among many vehicles in a large parking lot. Provided you are within 30 feet (10 meters) of the vehicle, pressing the " To button three times in a five-second period will cause your vehicle's horn to sound once and its turn signal lights to flash three times.

NOTE

If the interval between presses is too short when you press the " **P**" button three times, the system may not respond to the signals from the remote transmitter.

■ Sounding a panic alarm

To activate the alarm, keep the " Θ " button pressed for more than two seconds. The horn will sound and the turn signal lights will flash.

To deactivate it, press the " \bigcirc " button or " \bigcirc " button. Unless a button on the remote is pressed, the alarm will be deactivated after approximately 30 seconds.

Selecting audible signal operation

Using an electronic chirp, the system will give you an audible signal when the doors lock and unlock. If desired, you may turn the audible signal off.

Do the following to deactivate the audible signal. You can also use the same steps to restore the function.

1. Sit in the driver's seat and shut all doors and the rear liftgate.

2. Open the driver's door, then remove the key from the ignition switch.

3. Hold down the "UNLOCK" side of the power door locking switch.

4. While holding down the "UNLOCK" side of the power door locking switch, insert the key into the ignition switch and remove it again at least 6 times within 10 seconds after Step 3.

5. While still holding down the "UNLOCK"

side of the power door locking switch, close the driver's door once within 10 seconds after Step 4.

6. The turn signal lights flashes 3 times to indicate completion of the setting.

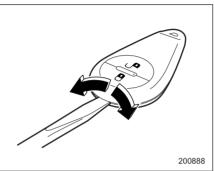
NOTE

If you do not close the driver's door within 10 seconds after Step 4, a flash of the turn signal lights will signal timeout. If this happens, repeat the whole procedure from Step 1.

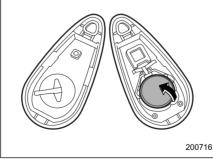
You may have the above settings done by your Saab dealer.

Replacing the battery

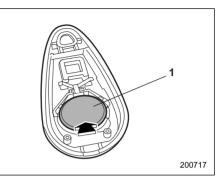
When the transmitter battery begins to get weak, transmitter range will begin to decrease. Replace the battery as soon as possible. To replace the battery:



1. Open the transmitter case using a flathead screwdriver.



- 2. Separate the case.
- 3. Remove the old battery from the holder.



¹⁾ Negative (-) side facing up

4. Replace with a new battery (Type CR2025 or equivalent) making sure to install the new battery with the negative (-) side facing up.

5. Reinstall the back half of the transmitter case by snapping it back on.

After the battery is replaced, the transmitter must be synchronized with the keyless entry system's control unit. Press either the " \square " or " \square " button six times to synchronize the unit.



• Do not let dust, oil or water get on or in the transmitter when replacing the battery.

2-10 Keys and doors

 Be careful not to damage the printed circuit board in the transmitter when replacing the battery.

Replacing lost transmitters

If you lose a transmitter or want to purchase additional transmitters (up to four can be programmed), you should re-program all of your transmitters for security reasons. It is recommended that you have your dealer program all of your transmitters into your system.

▼ Programming the transmitters

The keyless entry system is equipped with a special code learning feature that allows you to program new transmitter codes into the system or to delete old ones. The system can learn up to four unique transmitter codes. The four transmitter codes may be the same or different. Programming transmitter codes into system:



Bag containing transmitter

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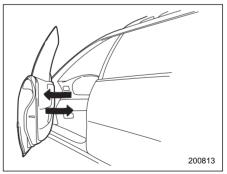
Transmitter circuit board

To register a new transmitter with the keyless entry system, it is necessary to program the transmitter's code (identification number) into the system. A label showing the code is affixed to the bag containing the transmitter, and another is affixed to the circuit board inside the transmitter. If there is no bag, open the transmitter case and make a note of the eight-digit number. Program the number into the system in accordance with the following procedure:

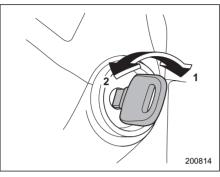
1. Firmly close the doors and the rear liftgate.

2. Open the driver's door, sit on the driver's seat, and close the door.

3. Perform the following steps within 45 seconds.



1)Open and close the driver's door once.



1) ON 2) LOCK

2) Insert the key into the ignition switch, then turn it from the "LOCK" position to the "ON" position 10 times within 15 seconds.

NOTE

• When you complete step 2), an electronic tone will sound once.

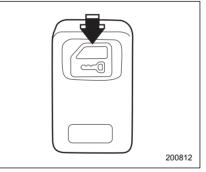
• If you do not perform steps 1) and 2) within 45 seconds, an error will occur. An electronic tone will not sound. In this event, perform the whole procedure again beginning with part 1.

4. Open and close the door once within 15 seconds.

NOTE

• When part 4 of the procedure is completed, an electronic tone will sound for 30 seconds.

• If you do not perform the operations in part 4 within 15 seconds, an error will occur and the electronic tone will not sound. In this event, perform the registration steps again beginning with part 3 of the procedure.



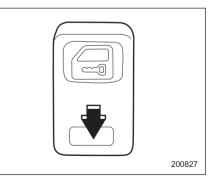
5. Before the electronic tone stops sounding, push the lock side of the power door lock switch the same number of times as the leftmost digit of the transmitter code. For example, push the lock switch eight times if the leftmost digit of the code is 8.

NOTE

• The electronic tone will stop sounding when you start entering the number.

• If you do not start entering the number using the lock switch before the electronic tone stops sounding, an error will occur. In this event, perform the registration steps again beginning with part 3 of the procedure.

• If the interval between one push of the switch and the next exceeds five seconds, an error will occur. In this event, perform the procedure again beginning with part 4. If an error occurs six times, perform the procedure again starting with part 3.



6. When you have finished entering the

number, push the unlock side of the lock switch within five seconds.

NOTE

• An electronic tone will sound.

• If you push the unlock side of the lock switch when more than five seconds have passed, an error will occur. In this event, perform the procedure again beginning with part 4. If an error occurs six times, perform the procedure again starting with part 3.

7. Perform parts 5 and 6 of the procedure for each of the remaining digits of the transmitter code beginning with the second digit (counting from the left) and finishing with the eighth digit.

NOTE

• When you finish entering the eighth digit, an electronic tone will sound for 30 seconds.

• If the interval between one push of the switch and the next exceeds five seconds, an error will occur. In this event, perform the procedure again beginning with part 4. If an error occurs six times, perform the procedure again starting with part 3.

8. Before the electronic tone stops sounding, use the power door lock switch to again enter the transmitter code beginning with the leftmost digit.

NOTE

If you do not start entering the number using the lock switch before the electronic tone stops sounding, an error will occur. In this event, perform the procedure again beginning with part 3.

9. When you have finished entering the code a second time, an electronic tone will sound for one second to indicate completion of registration, provided the code entered the second time is identical to that entered the first time.

NOTE

If the code entered the second time is not identical to the code entered the first time, an error will occur. In this event, perform the procedure again beginning with part 5. If an error occurs five times, perform the procedure again starting with part 3.

10.If you wish to program another transmitter code into the system (up to four transmitter codes can be programmed into the system), perform the procedure beginning with part 4. When you have finished programming all of the necessary transmitter codes into the system, remove the key from the ignition switch. 11.Test every registered transmitter to confirm correct operation.

▼ Deleting old transmitter codes

The control unit of the keyless entry system has four memory locations to store transmitter codes, giving it the ability to operate with up to four transmitters. When you lose a transmitter, the lost transmitter's code remains in the memory. For security reasons, lost transmitter codes should be deleted from the memory.

To delete old transmitter codes, program four transmitter codes into the system. If you have only one current transmitter, program it four times. If you have two current transmitters, program each one twice. If you have three current transmitters, program two of them once and the third one twice. This process will leave only current transmitter codes in the system's memory.

NOTE

Make sure no one else is operating their keyless entry system within range of your vehicle when programming transmitters. If someone else were to operate their remote transmitter while you are programming your transmitters, it is possible that their transmitter code will be programmed into your system, allowing them unauthorized access to your vehicle.

Alarm system

The alarm system helps to protect your vehicle and valuables from theft. The horn sounds and the turn signal lights flash if someone attempts to break into your vehicle. The starter motor is also interrupted to prevent starting the vehicle without a key.

The system can be armed and disarmed with the remote transmitter.

The system does not operate when the key is inserted into the ignition switch.

Your vehicle's alarm system has been set for activation at the time of shipment from the factory. You can set the system for deactivation yourself or have it done by your Saab dealer.

System operation

The alarm system will give the following alarm when triggered:

• The vehicle's horn will sound and the turn signal lights will flash for 30 seconds. In addition, the starter motor will not operate.

• If any door or the rear liftgate remains open after the 30-second period, the horn will continue to sound for a maximum of 3 minutes. If the door and the rear liftgate are closed while the horn is sounding, the horn will stop sounding with a delay of up to 30 seconds.

The alarm is triggered by:

• Opening a door or the rear liftgate.

• Turning the ignition switch to the "ON" position.

Activating and deactivating the alarm system

To change the setting of your vehicle's alarm system for activation or deactivation, do the following.

1. Disarm the alarm system (see "Disarming the system" in this section).

2. Sit in the driver's seat and shut all doors and the rear liftgate.

3. Turn the ignition switch to the "ON" position.

4. Hold down the UNLOCK side of the driver's power door locking switch, open the driver's door within the following 1 second, and wait 10 seconds without releasing the switch. The setting will then be changed as follows:

If the system was previously activated: The horn sounds twice, indicating that the system is now deactivated.

If the system was previously deactivated: The horn sounds once, indicating that the system is now activated.

NOTE

You may have the above setting change done by your Saab dealer.

■ If you have accidentally triggered the alarm system

▼ To stop the alarm

Do any of the following operations:

- Press any button on the remote transmitter.
- Cycle the ignition switch from the "LOCK" to "ON" position three times within 5 seconds.

Arming the system

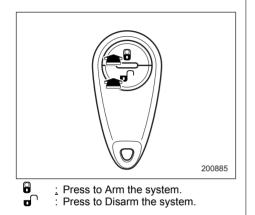
- ▼ To arm the system using remote transmitter
- 1. Close all windows and them moonroof (if equipped).
- 2. Remove the key from the ignition switch.

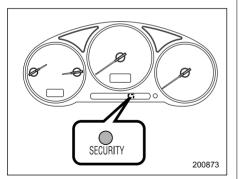
3. Open the doors and get out of the vehicle.

4. Make sure that the engine hood is locked.

5. Close all doors and the rear liftgate.

2-14 Keys and doors





Security indicator light

6. Briefly press the " 🗃 " button (for less

than two seconds). All doors and the rear liftgate will lock, an electric chirp will sound once, the turn signal lights will flash once, and the indicator lights will start flashing rapidly. After rapid flashing for 30 seconds (standby time), the indicator lights will then flash slowly (twice approximately every two seconds), indicating that the system has been armed for surveillance.

If any of the doors or the rear liftgate is not fully closed, an electronic chirp sounds five times, the turn signal lights flash five times to alert you that the doors or the rear liftgate are not properly closed. When you close the door, the system will automatically arm and doors will automatically lock.

▼ To arm the system using power door locking switches

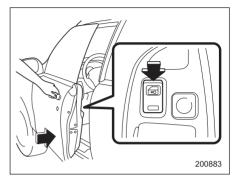
1. Close all windows.

2. Remove the key from the ignition switch.

3. Open the doors and get out of the vehicle.

4. Make sure that the engine hood is locked.

5. Close the doors and the rear liftgate but leave only the driver's door or the front passenger's door open.



6. Push the front side ("LOCK" side) of the power door locking switch to set the door locks.

7. Close the door. An electronic chirp will sound once, the turn signal lights will flash once, and the indicator lights will start flashing rapidly. After rapid flashing for 30 seconds (standby time), the indicator lights will then flash slowly (twice approximately every two seconds), indicating that the system has been armed for surveillance.

NOTE

• The system can be armed even if the engine hood, the windows and/or moonroof are opened. Always make sure that they are fully closed before arming the system. • The 30-second standby time can be eliminated if you prefer. Have it performed by your Saab dealer.

• The system is in the standby mode for a 30-second period after locking the doors with the remote transmitter. The security indicator light will flash at short intervals during this period.

• If any of the following actions is done during the standby period, the system will not switch to the surveillance state.

• Doors are unlocked using the remote transmitter.

• Any door or the rear liftgate is opened.

• Ignition switch is turned to the "ON" position.

• The engine does not start even when the ignition switch is turned to the "START" position once the alarm system has been triggered.

Disarming the system

Briefly press the " **o** " button (for less than two seconds) on the remote transmitter. The driver's door will unlock, an electronic chirp will sound twice, the turn signal lights will flash twice and the indicator light will go off.

NOTE (Models with immobilizer)

If your vehicle is equipped with an immobilizer, the immobilizer's function will cause the security indicator light to flash (approximately once every three seconds) even after the system is disarmed.

NOTE

The system can be disarmed by the following method.

• Cycle the ignition switch from the "LOCK" to the "ON" position three times within 5 seconds.

▼ Emergency disarming

If you cannot disarm the system using the transmitter (i.e. the transmitter is lost, broken or the transmitter battery is too weak), you can disarm the system without using the transmitter.

1. Unlock the door with the key and then open the door.

2. Insert the key into the ignition switch and cycle it from the "LOCK" to the "ON" position three times **within 5 seconds**.

■ Valet mode

When you choose the valet mode, the security system does not operate. In valet mode, the remote transmitter is used only for locking and unlocking the doors and rear liftgate and panic activation.

To enter the valet mode, change the setting of your vehicle's alarm system for deactivation mode. (Refer to "Activating and deactivating the alarm system" in this section.) The security indicator light will continue to flash once every three seconds indicating that the system is in the valet mode (only vehicle with an immobilizer).

To exit valet mode, change the setting of your vehicle's alarm system for activation mode. (Refer to "Activating and deactivating the alarm system" in this section.)

NOTE

If your vehicle is not equipped with an immobilizer, the security indicator light does not flash during the valet mode.

■ Passive arming

When passive arming mode has been programmed by the dealer, arming of the system is automatically accomplished without using the remote transmitter. Note that in this mode, DOORS MUST BE MANUALLY LOCKED.

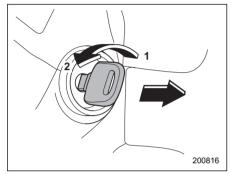
▼ To enter the passive mode

If you wish to program the passive arming mode, have it done by your Saab dealer.

2-16 Keys and doors

▼ Arming the system

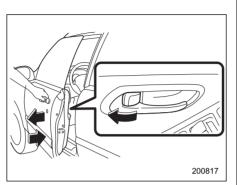
1. Turn the ignition switch to the "ON" position.



¹⁾ ON

2) LOCK

2. Turn the ignition switch from "ON" to "LOCK" position and remove the key from the ignition switch.



3. Open the doors and get out of the vehicle.

4. Before closing the doors, lock all doors with the inside door lock levers.

5. Close the doors. The system will automatically arm after one minute.

In the passive mode, the system can also be armed with the remote transmitter or with the power door locking switches. If the remote transmitter or power door locking switch is used to lock the vehicle, arming will take place immediately regardless of whether or not the passive mode has been selected.

In passive mode, the system will automatically activate the alarm but WILL NOT automatically lock the doors. In order to lock the doors you must either lock them as indicated in step 4 above or with the key once they have been closed. Failure to lock the doors manually will result in a higher security risk.

Disarming the system

To disarm the system, briefly press the " \mathbf{o}^{\cap} " button on the transmitter.

Tripped sensor identification

The security indicator light flashes when the alarm system has been triggered. Also, the number of flashes indicates the location of unauthorized intrusion or the severity of impact on the vehicle.

• When the ignition switch is turned to the "ON" position, the indicator light will light for 1 second and then flash as follows:

When a door or rear liftgate was opened: 5 times

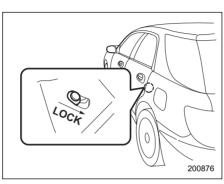
When the ignition switch was turned to the "ON" position: 3 times

NOTE

Any of the above indicator light flash-

ings will recur each time the ignition switch is turned to the "ON" position. Rearming the alarm system cancels the flashing.

Child safety locks



Each rear door has a child safety lock that prevents the doors from being opened even if the inside door handle is pulled. When the child safety lock lever is in the lock position, the door cannot be opened from inside regardless of the position of the inner door handle lock lever. The door can only be opened from the outside.

Always use the child safety lock whenever a child rides in the rear seat. Serious injury could result if a child accidentally opened the door and fell out.

Windows

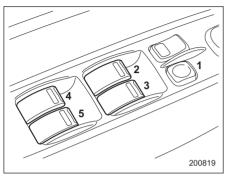
Power windows

To avoid serious personal injury caused by entrapment, you must do the following.

- When operating the power windows, be extremely careful to prevent anyone's fingers, arms, neck or head from being caught in the window.
- Always lock the passengers' windows using the lock switch when children are riding in the vehicle.
- Before leaving the vehicle, always remove the key from the ignition switch for safety and never allow an unattended child to remain in the vehicle. Failure to follow this procedure could result in injury to a child operating the power window.

The power windows operate only when the ignition switch is in the "ON" position.

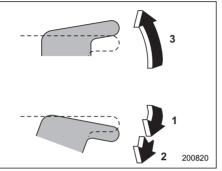
▼ Driver's side switches



- 1) Lock switch
- 2) For driver's window (with one-touch auto down feature)
- 3) For front passenger's window
- 4) For rear left window
- 5) For rear right window

All door windows can be controlled by the power window switch cluster at the driver side door.

∇ Operating the driver's window



- 1) Open
- 2) Automatically open
- 3) Close

To open:

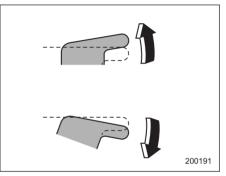
Push the switch down lightly and hold it. The window will open as long as the switch is held.

This switch also has a one-touch auto down feature that allows the window to be opened fully without holding the switch.

Push the switch down until it clicks and release it, and the window will fully open. To stop the window halfway, pull the switch up lightly.

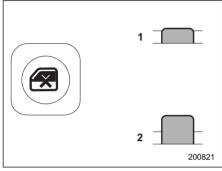
To close: Pull the switch up lightly and hold it. The window will close as long as the switch is held.

$\nabla\,$ Operating the passengers' windows



To open the passengers' windows, push the appropriate switch down and hold it until the window reaches the desired position.

To close the window, pull the switch up and hold it until it reaches the desired position. ∇ Locking the passengers' windows



1) Lock

2) Unlock

To lock the passengers' windows, push the lock switch. When the lock switch is in the "LOCK" position, the passengers' windows cannot be opened or closed. Press the switch again to cancel the passengers' window locking.

▼ Passengers' side switches

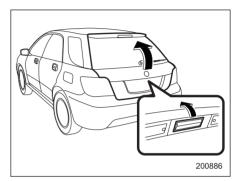
To open the window, push the switch down and hold it until the window reaches the desired position.

To close the window, pull the switch up and hold it until the window reaches the desired position.

When the lock switch on the power win-

dow switch cluster, located on the driver's side door, is in the "LOCK" position, the passengers' windows cannot be operated with the passengers' switches.

Rear liftgate

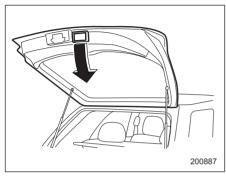


The rear liftgate can be locked and unlocked using either the keyless entry system or the power door locking switches.

Refer to the "Power door locking switches" and "Remote keyless entry system" sections in this chapter.

To open the rear liftgate, first unlock the rear liftgate lock then pull the outside handle up.

Then, hold the rear liftgate and raise it as high as it will go.



To close the rear liftgate, lower it slowly and push down firmly until the latch engages.

The rear liftgate can be lowered easily if you pull down on the recessed grip.

• To prevent dangerous exhaust gas from entering the vehicle, always keep the rear liftgate closed while driving. • Do not attempt to shut the rear liftgate while holding the recessed grip. Also avoid closing the rear liftgate by pulling on the recessed grip from inside the cargo space. There is a danger of your hand being caught and injured.

- Do not jam a plastic bag in or place cellophane tape on the rear gas struts or scratch the struts while loading or unloading cargo. That could cause leakage of gas from the struts, which may result in their inability to hold the rear liftgate open.
- Be careful not to hit your head or face on the rear liftgate when opening or closing the rear liftgate and when loading or unloading cargo.

NOTE

If the rear liftgate cannot be unlocked due to a discharged battery, a fault in the door locking/unlocking system or other causes, you can unlock it by manually operating the rear liftgate lock release lever.

For the procedure, refer to "Rear lift-

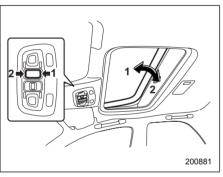
gate – if the rear liftgate cannot be unlocked" in chapter 9 "In case of emergency".

Moonroof *

The moonroof has both tilting and sliding functions.

The moonroof operates only when the ignition switch is in the "ON" position.

■ Tilt function



1) Tilt up

2) Tilt down

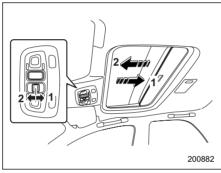
The tilting function will only operate when the moonroof is fully closed.

Push the rear side of the "Tilt" switch to raise the moonroof.

Push the front side of the "Tilt" switch to lower the moonroof.

Release the switch after the moonroof has been raised or has been lowered completely. Pushing the switch continuously may cause damage to the moonroof.

■ Sliding function



1) Open

2) Close

Push the "Open/Close" switch rearward to open the moonroof. The sun shade will also be opened together with the moonroof.

Push the "Open/Close" switch forward to close the moonroof. The moonroof will stop halfway if you continue to press on the switch. Release the switch once and push it again to close the moonroof completely. After washing the vehicle or after it rains, wipe away water on the roof prior to opening the moonroof to prevent drops of water from falling into the passenger compartment.

NOTE

If the moonroof cannot be closed through switch operation because of system failure, it can be closed manually using a hex-head wrench. For the procedure, refer to "Moonroof – if the moonroof cannot be closed" section in chapter 9 "In case of emergency".

 Never let anyone's hands, arms, head or any objects protrude from the moonroof. A person could be seriously injured if the vehicle stops suddenly or turns sharply or if the vehicle is involved in an accident.

To avoid serious personal injury caused by entrapment, you must do the following.

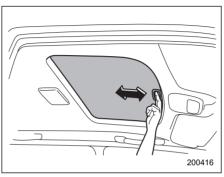
 Before closing the moonroof, make sure that no one's hands, arms, head or other objects will be accidentally caught in the moonroof.

2-22 Keys and doors

 Before leaving the vehicle, always remove the key from the ignition switch for safety and never allow an unattended child to remain in the vehicle. Failure to follow this procedure could result in injury to a child operating the moonroof.

- Do not sit on the edge of the open moonroof.
- Do not operate the moonroof if falling snow or extremely cold conditions have caused it to freeze shut.

Sun shade



The sun shade can be slid forward or backward by hand while the moonroof is closed.

If the moonroof is opened, the sun shade also moves back.

Instruments and controls

3

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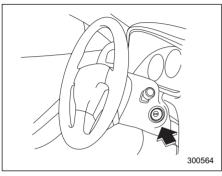
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Instruments and controls

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Ignition switch



The ignition switch has four positions: LOCK, ACC, ON and START.

NOTE

• Keep the ignition switch in the "LOCK" position when the engine is not running.

• Using electrical accessories for a long time with the ignition switch in the "ON" or "ACC" position can cause the battery to go dead.

If the ignition switch will not move from the "LOCK" position to the "ACC" position, turn the steering wheel slightly to the left and right as you turn the ignition switch.

• If the key is attached to a keyholder

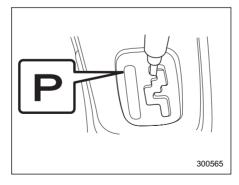
or to a large bunch of other keys, centrifugal force may act on it as the vehicle moves, resulting in unwanted turning of the ignition switch. Also, if a large keyholder is attached to the key, your knees or hands may accidentally touch it in a way that turns the ignition switch.

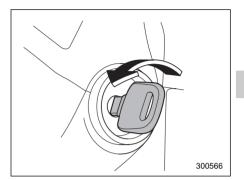
LOCK

The key can only be inserted or removed in this position. The ignition switch will lock the steering wheel when you remove the key.

If turning the key is difficult, turn the steering wheel slightly to the right and left as you turn the key.

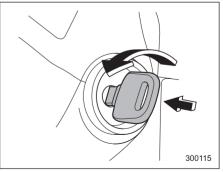
▼ Automatic transmission vehicles





The key can be turned from "ACC" to "LOCK" only when the selector lever is in the "P" position.

Manual transmission vehicles



The key can be turned from "ACC" to

- CONTINUED -

"LOCK" only when the key is pushed in while turning it.

- Never turn the ignition switch to "LOCK" while the vehicle is being driven or towed because that will lock the steering wheel, preventing steering control. And when the engine is turned off, it takes a much greater effort than usual to steer.
- Before leaving the vehicle, always remove the key from the ignition switch for safety and never allow an unattended child to remain in the vehicle. Failure to follow this procedure could result in injury to a child or others. Children could operate the power windows, the moonroof or other controls or even make the vehicle move.

In this position the electrical accessories (radio, cigarette lighter, etc.) can be used.

■ ON

This is the normal operating position after the engine is started.

START

The engine is started in this position. The starter cranks the engine to start it. When the key is released (after the engine has started), the key automatically returns to the "ON" position.

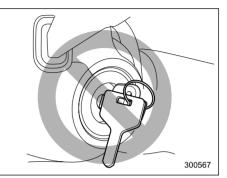
Do not turn the ignition switch to the "START" position while the engine is running.

▼ For models with immobilizer

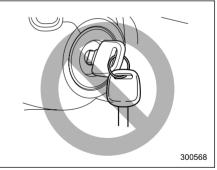
If you fail to start your engine with your registered key, once pull out the key (at this time, the security indicator light blinks), and then insert the key in the ignition switch and turn it to the "START" position and again try to start your engine.

NOTE

The engine may not start in the following cases:



• The key grip is touching another key or a metallic key holder.



• <u>The key is near another key that con-</u> tains an immobilizer transponder.

Key reminder chime

The reminder chime sounds when the driver's door opens and the key is in the "LOCK" or "ACC" positions. The chime stops when the key is removed from the ignition switch.

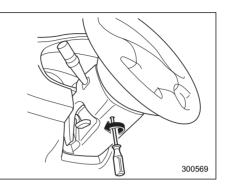
■ Ignition switch light *

For easy access to the ignition switch in the dark, the ignition switch light comes on when driver's door is opened. The light remains on for 10 seconds and goes out after driver's door is closed or if the key is turned to the "ON" position.

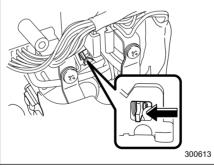
Key interlock release (AT vehicles only)

If the key can not be turned to the "LOCK" position even when the selector lever is in the "P" position:

1. Take out the screwdriver from the tool bag.



2. Remove the cover under the steering column using a Phillips screwdriver.

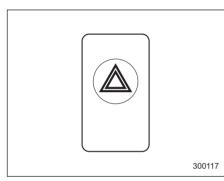


3. Turn the ignition key while pressing the key interlock release lever.

Take your vehicle to the nearest Saab

dealer immediately to have the key interlock system repaired.

Hazard warning flasher



The hazard warning flasher is used to warn other drivers when you have to park your vehicle under emergency conditions. The hazard warning flasher works with the ignition switch in any position.

To turn on the hazard warning flasher, push the hazard warning button on the instrument panel. To turn off the flasher, push the button again.

NOTE

When the hazard warning flasher is on, the turn signals do not work.

Meters and gauges

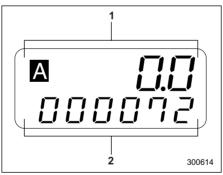
NOTE

Liquid-crystal displays are used in some of the meters and gauges in the combination meter. You will find their indications hard to see if you wear polarized glasses.

Speedometer

The speedometer shows the vehicle speed.

■ Odometer/Trip meter



1) Trip meter

2) Odometer

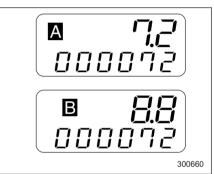
This meter displays the odometer and two

trip meters when the ignition switch is in the "LOCK", "ACC" or "ON" position.

▼ Odometer

The odometer shows the total distance that the vehicle has been driven.

▼ Double trip meter



The trip meter shows the distance that the vehicle has been driven since you last set it to zero.

To change the mode indication, briefly push the knob.

Each press of the knob changes the function alternately.

A trip meter - B trip meter

To set the trip meter to zero, select the A

trip or B trip meter by pushing the knob and keep the knob pushed for more than 2 seconds.

To ensure safety, do not attempt to change the function of the indicator during driving, as an accident could result.

NOTE

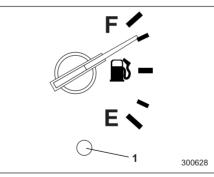
If the connection between the instrument cluster and battery is broken for any reason such as vehicle maintenance or fuse replacement, the data recorded on the trip meter will be lost.

Tachometer

The tachometer shows the engine speed in thousands of revolutions per minute.

Do not operate the engine with the pointer of the tachometer in the red zone. In this range, fuel injection will be cut by the engine control module to protect the engine from overrevving. The engine will resume running normally after the engine speed is reduced below the red zone.

Fuel gauge



1) Low fuel warning light

The fuel gauge shows the approximate amount of fuel remaining in the tank. The gauge does not return to "E" even

though the ignition switch is in the "ACC" or "LOCK" position.

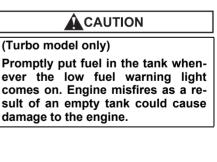
The gauge may move slightly during braking, turning or acceleration due to fuel level movement in the tank.

▼ Low fuel warning light

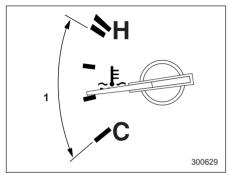
The low fuel warning light comes on when the tank is nearly empty [approximately 2.3 US gal (9.0 liters)]. It only operates when the ignition switch is in the "ON" position.

NOTE

This light does not go out unless the tank is replenished up to an internal fuel quantity of approximately 4.0 US gal (15 liters).



■ Temperature gauge



1) Normal operating range

The temperature gauge shows engine coolant temperature when the ignition switch is in the "ON" position.

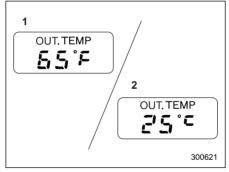
The coolant temperature will vary in accordance with the outside temperature and driving conditions.

We recommend that you drive moderately until the pointer of the temperature gauge reaches near the middle of the range. Engine operation is optimum with the engine coolant at this temperature range and high revving operation when the engine is not warmed up enough should be avoided.

If the pointer exceeds the normal operating range, safely stop the vehicle as soon as possible.

See "In case of emergency" in chapter 9.

Outside temperature indicator



- 1) U.S.-spec. models
- 2) Canada-spec. models

The outside temperature indicator shows the outside temperature in a range from -22 to $122^{\circ}F$ (-30 to $50^{\circ}C$).

The indicator can give a false reading under any of the following conditions:

- When there is too much sun.
- During idling.

• While running at low speeds in a traffic jam.

• When the engine is restarted immediately following a shutdown.

• When the actual outside temperature falls outside the specified indicator range.

Warning and indicator lights

Several of the warning and indicator lights come on momentarily and then go out when the ignition switch is initially turned to the "ON" position. This permits checking the operation of the bulbs.

Apply the parking brake and turn the ignition switch to the "ON" position. The following lights come on:

- · Seatbelt warning light
- SRS airbag system warning light
- Front passenger's frontal airbag ON indicator light

• Front passenger's frontal airbag OFF indicator light

 CHECK ENGINE warning light/Malfunction indicator lamp

- Charge warning light
- Oil pressure warning light

• AT OIL temperature warning light (AT vehicles)

- ABS warning light
- Brake system warning light

• All-Wheel Drive warning light (AWD AT vehicles)

- Cruise control indicator light *
- Cruise control set indicator light *

If any lights fail to come on, it indicates a burned-out bulb or a malfunction of the corresponding system.

Consult your authorized Saab dealer for repair.

Seatbelt warning light and chime

Your vehicle is equipped with a seatbelt warning device at the driver's seat, as required by current safety standards. There is a seatbelt warning light in the combination meter.

If the driver has not yet fastened the seatbelt when the ignition switch is turned to the "ON" position, the seatbelt warning light will flash for 6 seconds, to warn that the seatbelt is unfastened. If the driver's seatbelt is not fastened, a chime will also sound simultaneously.

If the driver's seatbelt is still not fastened 6 seconds later, the warning light will remain lit for 15 seconds. If the driver's seatbelt is still not fastened even 15 seconds later (21 seconds after turning ON the ignition switch), the warning lights will alternate between flashing and steady illumination at 15-second intervals, and the chime will sound while the warning light is flashing.

Alternate flashing and steady illumination of the warning lights and sounding of the chime will continue until the driver fastens the seatbelt.

NOTE

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• If the driver unfastens the seatbelt after fastening, the seatbelt warning device operates as follows according to the vehicle speed.

• At speeds lower than approximately 9 mph (15 km/h)

The warning light will alternate between flashing and steady illumination at 15-second intervals. The chime will not sound.

• At speeds higher than approximately 9 mph (15 km/h)

The warning light will alternate between flashing and steady illumination at 15-second intervals and the chime will sound while the warning light is flashing.

• It is possible to cancel the warning operation that follows the 6-second warning after turning ON the ignition switch by unfastening and refastening the driver's seatbelt. When the ignition switch is turned ON next time, however, the complete sequence of warning operation resumes. For further details about canceling the warning operation, please contact your Saab dealer.

SRS airbag system AIR BAG warning light

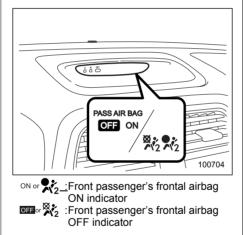
When the ignition switch is turned to the "ON" position, the SRS airbag system warning light will come on for approximately six seconds and go out. This shows the SRS airbag and SRS side airbag * and seatbelt pretensioners are in normal operation.

If the warning light exhibits any of the following conditions, there may be a malfunction in the seatbelt pretensioners and/or SRS airbag system. Immediately take your vehicle to your nearest Saab dealer to have the system checked. Unless checked and properly repaired, the seatbelt pretensioners and/or SRS airbag will not operate properly in the event of a collision, which may increase the risk of injury.

- Flashing or flickering of the warning light
- No illumination of the warning light when the ignition switch is first turned to the "ON" position

- Continuous illumination of the warning light
- Illumination of the warning light while driving

Front passenger's frontal airbag ON and OFF indicators



The front passenger's frontal airbag ON and OFF indicators show you the status of the front passenger's SRS frontal airbag. The indicators are located next to the clock in the central portion of the instrument panel. When the ignition switch is turned to the "ON" position, both the ON and OFF indicators illuminate for 6 seconds during which time the system is checked. Following the system check, both indicators extinguish for 2 seconds. After this, one of the indicators illuminates depending on the status of the front passenger's SRS frontal airbag reached by the Saab advanced frontal airbag system monitoring. If the front passenger's SRS frontal airbag is activated, the passenger's frontal airbag ON indicator will illuminate while the OFF indicator will remain extinguished. If the front passenger's SRS frontal airbag is deactivated, the passenger's frontal airbag ON indicator will remain extinguished while the OFF indicator will illuminate. With the ignition switch turned to the "ON" position, if both the ON and OFF indicators remain lit or extinguished simultaneously even after the system check period, the system is faulty. Contact your Saab dealer immediately for an inspection.

CHECK ENGINE warning light/Malfunction indicator lamp

If the CHECK ENGINE light comes on while you are driving, have your vehicle checked/repaired by your Saab dealer as soon as possible. Continued vehicle operation without having the emission control system checked and repaired as necessary could cause serious damage, which may not be covered by your vehicle's warranty.

If this light comes on steadily or blinks while the engine is running, it may indicate that there is a problem or potential problem somewhere in the emission control system.

▼ If the light comes on steadily:

If the light comes on steadily while driving or does not go out after the engine starts, an emission control system malfunction has been detected.

You should have your vehicle checked by an authorized Saab dealer immediately.

NOTE

This light also comes on when the fuel

filler cap is not tightened until it clicks.

If you have recently refueled your vehicle, the cause of the CHECK ENGINE warning light/malfunction indicator lamp coming on could be a loose or missing fuel filler cap. Remove the cap and retighten it until it clicks. Make sure nothing is interfering with the sealing of the cap. Tightening the cap will not make the CHECK ENGINE warning light turn off immediately. It may take several driving trips. If the light does not go out, take your vehicle to your authorized Saab dealer immediately.

▼ If the light is blinking:

If the light is blinking while driving, an engine misfire condition has been detected which may damage the emission control system.

To prevent serious damage to the emission control system, you should do the following.

- Reduce vehicle speed.
- Avoid hard acceleration.
- Avoid steep uphill grades.

• Reduce the amount of cargo, if possible.

• Stop towing a trailer as soon as possible.

The CHECK ENGINE warning light may stop blinking and come on steadily after

several driving trips. You should have your vehicle checked by an authorized Saab dealer immediately.

Charge warning light



If this light comes on when the engine is running, it may indicate that the charging system is not working properly.

If the light comes on while driving or does not go out after the engine starts, stop the engine at the first safe opportunity and check the alternator belt. If the belt is loose, broken or if the belt is in good condition but the light remains on, contact your nearest Saab dealer immediately.

■ Oil pressure warning light

If this light comes on when the engine is running, it may indicate that the engine oil pressure is low and the lubricating system is not working properly.

If the light comes on while driving or does not go out after the engine starts, stop the engine at the first safe opportunity and check the engine oil level. If the oil level is low, add oil immediately. If the engine oil is at the proper level but the light remains on, contact your nearest Saab dealer immediately.

3-12 Instruments and controls

Do not operate the engine with the oil pressure warning light on. This may cause serious engine damage.

■ AT OIL TEMPerature AT OIL warning light (AT vehicles)

The AT oil temperature warning light comes on when the ignition switch is turned to the "ON" position and goes out after approximately two seconds.

If this light comes on when the engine is running, it may indicate that the automatic transmission fluid temperature is too hot.

If the light comes on while driving, it is unnecessary to stop the vehicle, but avoid driving up steep grades or in stop and go traffic.

▼ Automatic transmission control system warning

If the light flashes after the engine starts, it may indicate that the automatic transmission control system is not working properly. Contact your nearest Saab dealer for service immediately. ■ ABS warning light

The ABS warning light comes on when the ignition switch is turned to the "ON" position and goes out after approximately two seconds.

This is an indication that the ABS system is working properly.

When the warning light is on, the ABS function shuts down; however, the conentional brake system continues to operate normally.

If the warning light behaves as follows, the ABS system may not work properly.

- The warning light does not come on when the ignition switch is turned to the "ON" position.
- The warning light comes on when the ignition switch is turned to the "ON" position, but it does not go out even when the vehicle speed exceeds approximately 8 mph (12 km/h).
- The warning light comes on during driving.

If any of these conditions occur, have the ABS system repaired at the first available opportunity by your Saab dealer.

With a vehicle equipped with an Electronic Brake Force Distribution (EBD) system, the ABS warning light comes on together with the brake system warning light if the EBD system becomes faulty. For further details of the EBD system fault warning, refer to "Brake system warning light".

NOTE

If the warning light behavior is as described in the following, the ABS system may be considered normal.

• The warning light comes on right after the engine is started but goes out immediately, remaining off.

• The warning light remains on after the engine has been started, but it goes out when the vehicle speed reaches approximately 8 mph (12 km/h).

• The warning light comes on during driving, but it goes out immediately and remains off.

When driving with an insufficient battery voltage such as when the engine is jump started, the ABS warning light may come on. This is due to the low battery voltage and does not indicate a malfunction.

ABS (U.S.) ((ABS)) (Canada) When the battery becomes fully charged, the light will go out.

Brake system warning light

BRAKE (U.S.) **((!))** (Canada)

- Driving with the brake system warning light on is dangerous. This indicates your brake system may not be working properly. If the light remains on, have the brakes inspected by a Saab dealer immediately.
- If at all in doubt about whether the brakes are operating properly, do not drive the vehicle. Have your vehicle towed to the nearest Saab dealer for repair.

This light has the following three functions:

▼ Parking brake warning

The light comes on with the parking brake applied while the ignition switch is in the "ON" position. It goes out when the parking brake is fully released.

▼ Brake fluid level warning

This light comes on when the brake fluid

level has dropped to near the "MIN" level of the brake fluid reservoir with the ignition switch in the "ON" position and with the parking brake fully released.

If the brake system warning light should come on while driving (with the parking brake fully released and with the ignition switch positioned in "ON"), it could be an indication of leaking of brake fluid or worn brake pads. If this occurs, immediately stop the vehicle at the nearest safe place and check the brake fluid level. If the fluid level is below the "MIN" mark in the reservoir, do not drive the vehicle. Have the vehicle towed to the nearest Saab dealer for repair.

▼ Electronic Brake Force Distribution (EBD) system warning (vehicles with ABS)

The brake system warning light also illuminates if a malfunction occurs in the EBD system. In that event, it comes on together with the ABS warning light.

The EBD system may be malfunctioning if the brake system warning light and ABS warning light illuminate simultaneously during driving.

Even if the EBD system fails, the conventional braking system will still function. However, the rear wheels will be more prone to locking when the brakes are applied harder than usual and the vehicle's motion may therefore become somewhat harder to control.

If the brake system warning light and ABS warning light illuminate simultaneously, take the following steps:

1. Stop the vehicle in the nearest safe, flat place.

2. Shut down the engine, then restart it.

3. Release the parking brake. If both warning lights go out, the EBD system may be faulty. Drive carefully to the nearest Saab dealer and have the system inspected.

4. If both warning lights come on again and stay illuminated after the engine has been restarted, shut down the engine again, apply the parking brake, and check the brake fluid level.

5. If the brake fluid level is not below the "MIN" mark, the EBD system may be faulty. Drive carefully to the nearest Saab dealer and have the system inspected.

6. If the brake fluid level is below the "MIN" mark, DO NOT drive the vehicle. Instead, have the vehicle towed to the nearest Saab dealer for repair.

Door open warning light



The door open warning light comes on if any door or the rear liftgate is not fully closed.

3-14 Instruments and controls

Always make sure this light is out before you start to drive.

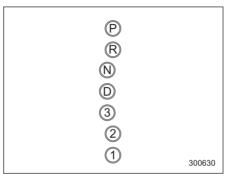
All-Wheel Drive warn-AWD ing light (AWD AT vehicles)

Continuing to drive with the AWD warning light flashing can damage the powertrain. If the AWD warning light starts to flash, promptly park in a safe place and check whether the tires have differing diameters and whether any of the tires has an excessively low inflation pressure.

The All-Wheel Drive warning light comes on when the ignition switch is turned to the "ON" position and goes out after the engine has started.

This light comes on when All-Wheel Drive is disengaged and the drive mechanism is switched to Front Wheel Drive for maintenance or similar purposes (Non-turbo vehicles).

It flashes if the vehicle is driven with tires of differing diameters fitted on the wheels or with an excessively low air pressure in any of the tires. Selector lever position indicator (AT vehicles)



This indicator shows the position of the selector lever.

Turn signal indicator lights

These lights show the operation of the turn signal or lane change signal.

If the indicator lights do not blink or blink rapidly, the turn signal bulb may be burned out. Replace the bulb as soon as possible. Refer to the "Replacing bulbs" section in chapter 11.

High beam indicator light



This light shows that the headlights are in the high beam mode.

This indicator light also comes on when the headlight flasher is operated.

Cruise control indica- CRUISE tor light

The cruise control indicator light comes on when the ignition switch is turned to the "ON" position and goes out after approximately three seconds.

This light comes on when the "CRUISE" main switch is pressed.

If it flashes during driving, deactivate the cruise control system and contact your Saab dealer for an inspection. Refer to "Cruise control" in chapter 7 for the deactivation procedure of the cruise control system.

NOTE

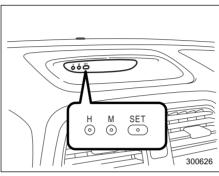
If you move the cruise control lever or press the main switch button while turning the ignition switch "ON", the cruise control function is deactivated and the "CRUISE" indicator light flashes. To reactivate the cruise control function, turn the ignition switch back to the "ACC" or "LOCK" position, and then turn it again to the "ON" position.

■ Cruise control set indi- (SET) cator light

The cruise control set indicator light comes on when the ignition switch is turned to the "ON" position and goes out after approximately_three seconds.

This light comes on when vehicle speed has been set.

Clock



To set the hour, press the "H" button. To set the minutes, press the "M" button. To reset the minutes to "00" with a radio time signal, push the "SET" button.

To ensure safety, do not attempt to set the time while driving, as an accident from inadequate attention to the road could result.

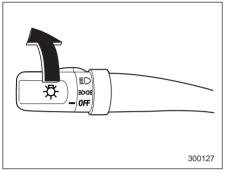
Light control switch

The light switch operates only when the ignition switch is in the "ON" position.

To prevent battery discharge resulting from accidentally leaving your lights on when your vehicle is parked, the light switch operates only when the ignition switch is in the "ON" position. In any other position, the vehicle's lights will be out.

If you stop or park your vehicle on the shoulder of the road at night, use the hazard warning flasher to alert the other drivers.

Headlights



To turn on the headlights, turn the knob on the end of the turn signal lever.

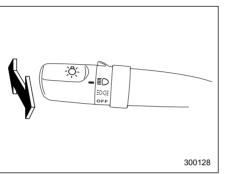
adda first position

Parking lights, instrument panel illumination, tail lights, front side marker lights and license plate light are on.

≣⊖ second position

Headlights, parking lights, instrument panel illumination, tail lights, and license plate light are on.

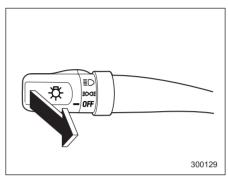
High/low beam change (dimmer)



To change from low beam to high beam, push the turn signal lever forward. When the headlights are on high beam, the high beam indicator light " $\equiv \bigcirc$ " on the instrument panel is also on.

To switch back to low beam, pull the lever back to the detent position.

Headlight flasher



To flash the headlights, pull the lever toward you and then release it. The high beam will stay on for as long as you hold the lever. The headlight flasher works even though the lighting switch is in the "OFF" position.

When the headlights are on high beam, the high beam indicator light " $\equiv \bigcirc$ " on the instrument panel also comes on.

Do not hold the lever in the flashing position for more than just a few seconds.

Daytime running light system

▼ Cars with HID headlights

The low beam headlights, tail lights, parking lights, and licence plate lights will automatically come on when the engine has started, under the following conditions:

- The parking brake is fully released.
- The light switch is in the "OFF" or " =DQE " position.

• The automatic transmission selector lever is set at other than the "P" position.

The side marker lights are not turned on by the daytime running light system. The light switch must always be turned to the " $\equiv \bigcirc$ " position when it is dark outside.

▼ Except cars with HID headlights

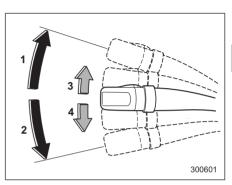
The low beam headlights will automatically come on at reduced brightness when the engine has started, under the following conditions:

- The parking brake is fully released.
- The light switch is in the "OFF" or " **EDGE** " position.

• The automatic transmission selector lever is set at other than the "P" position.

The tail lights, parking lights, and side marker lights are not turned on by the daytime running light system. The light switch must always be turned to the " $\equiv \bigcirc$ " position when it is dark outside.

Turn signal lever

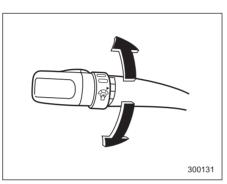


- 1) Right turn
- 2) Left turn
- 3) Lane change for right
- 4) Lane change for left

To activate the right turn signal, push the turn signal lever up. To activate the left turn signal, push the turn signal lever down. When the turn is finished, the lever will return automatically. If the lever does not return after cornering, return the lever to the neutral position by hand.

To signal a lane change, push the turn signal lever up or down slightly and hold it during the lane change. The turn signal indicator lights will flash in the direction of the turn or lane change. The lever will return automatically to the neutral position when you release it.

Illumination brightness control

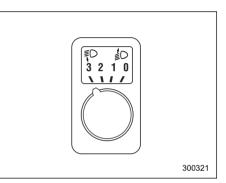


When the headlight switch is in the " $\exists c D a \equiv 0$ " or " $\equiv c D$ " position, you can adjust brightness of the instrument panel illumination for better visibility.

To brighten, turn the control dial upward. To darken, turn the control dial downward.

The brightness of the instrument cluster can be adjusted in five steps with the headlight switch in either the OFF position or the " $\equiv OOE$ " or " $\equiv O$ " position.

Headlight beam leveler (Cars with HID headlights only)



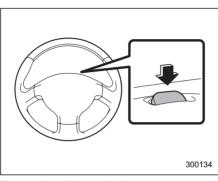
On cars so equipped, the low beam headlights are the High-Intensity Discharge type. The HID headlights generate more light than conventional halogen headlights. Therefore a driver of an oncoming vehicle may experience too much glare when your headlight beam height adjustment is high due to the vehicle carrying heavy load.

The headlight beam leveler can be used to adjust beam height to avoid such a condition.

The higher the number the knob is turned to, the lower the beam becomes. For a

lightly loaded vehicle, set the adjuster to "0".

Parking light switch



The parking light switch operates regardless of the ignition switch position.

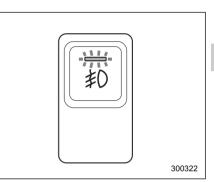
By pushing the front end of this switch, following lights will come on.

- Parking lights
- Front side marker lights
- Tail lights
- License plate lights

To turn off, push the rear end of the parking light switch.

Avoid leaving these lights on for a long time because that will run down the battery.

Front fog light button *



The front fog lights operate only when the headlights are on low beam. Push the front fog light button to turn the front fog lights on.

Press the button again to turn them off. The indicator light located on the button will illuminate when the front fog lights are on.

Wiper and washer

In freezing weather, do not use the windshield washer until the windshield is sufficiently warmed by the defroster.

Otherwise the washer fluid can freeze on the windshield, blocking your view.

- Do not operate the washer continuously for more than ten seconds, or when the washer fluid tank is empty. This may cause overheating of the washer motor. Check the washer fluid level frequently, such as at fuel stops.
- Do not operate the wipers when the windshield or rear window is dry. This may scratch the glass, damage the wiper blades and cause the wiper motor to burn out. Before operating the wiper on a dry windshield or rear window, always use the windshield washer.

- In freezing weather, be sure that the wiper blades are not frozen to the windshield or rear window before switching on the wipers. Attempting to operate the wiper with the blades frozen to the window glass could cause not only the wiper blades to be damaged but also the wiper motor to burn out. If the wiper blades are frozen to the window glass, be sure to operate the defroster, windshield wiper deicer * or rear window defogger before turning on the wiper.
- If the wipers stop during operation because of ice or some other obstruction on the window, the wiper motor could burn out even if the wiper switch is turned off. If this occurs, promptly stop the vehicle in a safe place, turn the ignition switch to the "LOCK" position and clean the window glass to allow proper wiper operation.

• Use clean water if windshield washer fluid is unavailable. In areas where water freezes in winter, use windshield washer fluid with adequate freeze protection. (See the "Windshield washer fluid" section in chapter 11.)

Also, when driving the vehicle when there are freezing temperatures, use non-freezing type wiper blades.

• Do not clean the wiper blades with gasoline or a solvent, such as paint thinner or benzene. This will cause deterioration of the wiper blades.

NOTE

• The wiper operates only when the ignition switch is in the "ON" or "ACC" position.

• Clean your wiper blades and window glass periodically with a washer solution to prevent streaking, and to remove accumulations of road salt or road film. Keep the washer button depressed at least for 1 second so that washer solution will be sprinkled all over the windshield or rear window.

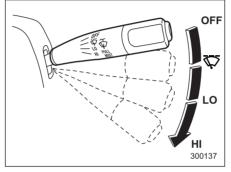
• Grease, wax, insects or other material on the windshield or the wiper blade

results in jerky wiper operation and streaking on the glass. If you cannot remove those streaks after operating the washer or if the wiper operation is jerky, clean the outer surface of the windshield or rear window and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaner. After cleaning, rinse the window glass and wiper blades with clean water. The glass is clean if no beads form on the glass when you rinse with water.

• If you cannot eliminate the streaking even after following this procedure, replace the wiper blades with new ones. Refer to the "Replacement of wiper blades" section (chapter 11) for replacement instructions.

Windshield wiper and washer switches

▼ Windshield wipers

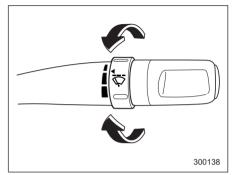


- OFF : Park
- : Intermittent
- LO : Low speed
- HI : High speed

To turn the wipers on, push the wiper control lever down.

To turn the wipers off, return the lever to the "OFF" position.

▼ Wiper intermittent time control

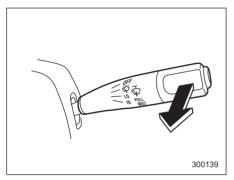


When the wiper switch is in the " $\sqrt{2}$ " position, turn the dial to adjust the operating interval of the wiper.

The operating interval can be adjusted in four steps.

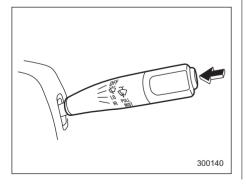
Two click stop positions of the dial may help you to aim at your desired interval.

▼ Mist (for a single wipe)



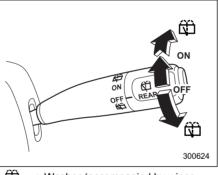
For a single wipe of the wipers, pull the lever toward you. The wipers operate until you release the lever.

▼ Washer



To wash the windshield, push the washer button at the end of the wiper control lever. The washer fluid sprays until you release the washer button. The wipers operate while you push the button.

Rear window wiper and washer switch



- Washer (accompanied by wiper operation)
- ON : Normal
- QFF : Park
- 🖞 <u>:</u> Washer

▼ Rear wiper

The rear wiper offers intermittent operation only.

To turn the rear wiper on, turn the knob on

the end of the wiper control lever to the "ON" position.

To turn the wiper off, return the knob on the end of the lever to the "OFF" position.

▼ Washer

To wash the rear window while the rear wiper is operating, turn the knob on the end of the wiper control lever counterclockwise to the " 🛱 " position. The washer fluid sprays until you release the knob.

To wash the rear window when the rear wiper is not in use, turn the knob on the end of the wiper control lever clockwise to the " (2)" " position. The washer fluid sprays and the wiper operates until you release the knob.

Rear window defogger button

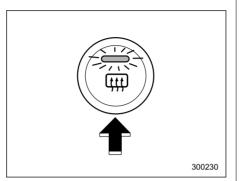
The rear window defogger operates only when the ignition switch is in the "ON" position.

The rear window defogger button is located on the climate control panel.

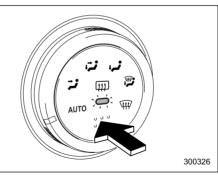
To turn on the defogger, push the button. To turn it off, push the button again.

The indicator light located on the button lights up while the rear window defogger is operating.

The defogger will automatically shut off after approximately 15 minutes. If the window clears before that time, push the button to turn it off. It also turns off when the ignition switch is turned to the "ACC" or "LOCK" position. If defrosting or defogging is desired when you restart your vehicle, you have to push the button to turn it on again.



Manual climate control system



Automatic climate control system

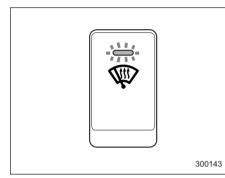
NOTE

• If your vehicle is equipped with the outside mirror defogger, the outside mirror defogger operates while the rear window defogger is operating.

• Turn on the rear window defogger if the wiper is frozen to the glass.

- Do not use sharp instruments or window cleaner containing abrasives to clean the inner surface of the rear window. They may damage the conductors printed on the window.
- To prevent the battery from being discharged, do not operate the defogger continuously for any longer than necessary.

Windshield wiper deicer *



The windshield wiper deicer operates only when the ignition switch is in the "ON" position.

Before turning on the windshield wiper deicer, remove any snow from the windshield. To turn on the windshield wiper deicer, push the button. The indicator light located on the button lights up while the windshield wiper deicer is operating.

The windshield wiper deicer will automatically shut off after approximately 15 minutes. If the windshield wiper blades have been deiced completely before that time, push the button to turn it off. It also turns off when the ignition switch is turned to the "ACC" or "LOCK" position. If deicing is not complete when you restart your vehicle, you have to push the button to turn the deicer on again.

NOTE

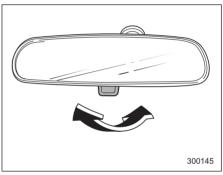
If your vehicle is equipped with the outside mirror defogger, the outside mirror defogger operates while the rear window defogger is operating.

To prevent the battery from being discharged, do not operate the windshield wiper deicer continuously for any longer than necessary.

Mirrors

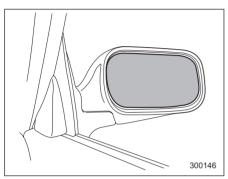
Always check that the inside and outside mirrors are properly adjusted before you start driving.

■ Inside mirror



The inside mirror has a day and night position. Pull the tab at the bottom of the mirror toward you for the night position. Push it away for the day position. The night position reduces glare from headlights.

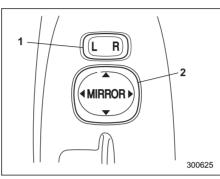
Outside mirrors



▼ Convex mirror (passenger side)

Objects look smaller in a convex mirror and farther away than when viewed in a flat mirror. Do not use the convex mirror to judge the distance of vehicles behind you when changing lanes. Use the inside mirror (or glance backwards) to determine the actual size and distance of objects that you view in convex mirror.

▼ Remote control mirror switch



1) Selection switch

2) Direction control switch

The remote control mirrors operate only when the ignition switch is in the "ON" or "ACC" position.

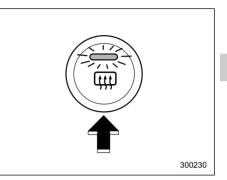
1. Press either end of the selection switch, "L" for the left, "R" for the right.

2. Move the direction control switch in the direction you want to move the mirror.

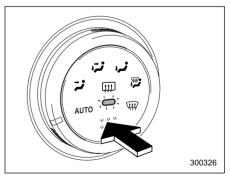
3. Return the selection switch to the neutral position to prevent unintentional operation.

The mirrors can also be adjusted manually.

▼ Outside mirror defogger *



Manual climate control system



Automatic climate control system

3-26 Instruments and controls

The outside mirror defogger shares the button with rear window defogger.

The outside mirror defogger operates only when the ignition switch is in the "ON" position.

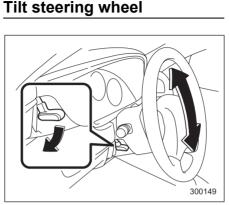
To turn on the outside mirror defogger, push the button. To turn it off, push the button again. The indicator light located on the button lights up while the outside mirror defogger is operating.

The defogger will automatically shut off after approximately 15 minutes. If the mirror clears before that time, push the button to turn it off. It also turns off when the ignition switch is turned to the "ACC" or "LOCK" position. If defrosting or defogging is desired when you restart your vehicle, you have to push the button to turn it on again.

NOTE

While the outside mirror defogger is operating, the rear window defogger also operates.

To prevent the battery from being discharged, do not operate the defogger continuously for any longer than necessary.



- 1. Adjust the seat position. Refer to the "Front seats" section (chapter 1).
- 2. Push the tilt lock lever down.

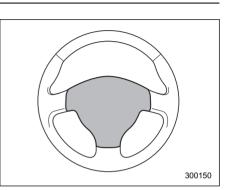
3. Move the steering wheel to the desired level.

4. Pull the lever up to lock the steering wheel in place.

5. Make sure that the steering wheel is securely locked by moving it up and down.

Do not adjust the steering wheel tilt position while driving. This may cause loss of vehicle control and result in personal injury.

Horn



To sound the horn, push the horn pad.

Climate control

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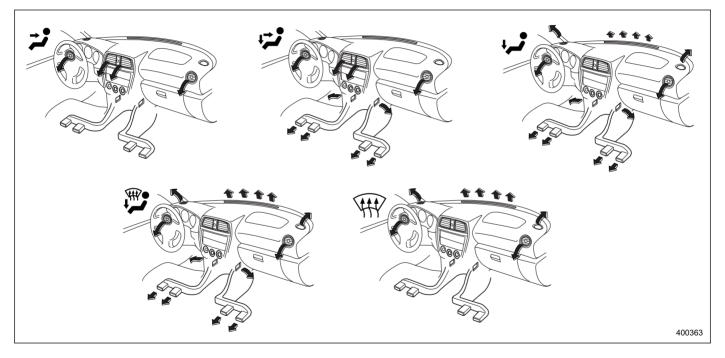
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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

4-2 Climate control

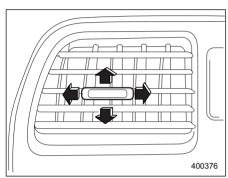
Ventilation

■ Air flow selection

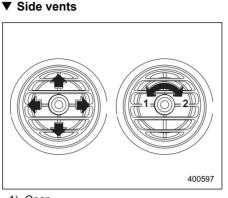


■ Center and side vents

▼ Center vents



Move the tab up and down or right and left to adjust the air flow direction.



1) Open

2) Close

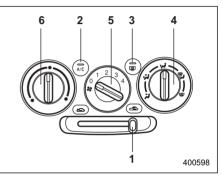
Move the knob in any direction you prefer to adjust the air flow direction.

To open the vent, turn the knob counterclockwise.

To close the vent, turn the knob clockwise.

Manual climate control system ⅔

Control panel



- 1) Air inlet selection lever
- 2) Air conditioner button
- Rear window defogger button (Refer to the "Rear window defogger button" section in chapter 3.)
- 4) Air flow control dial
- 5) Fan speed control dial
- 6) Temperature control dial

▼ Temperature control dial

This dial regulates the temperature of air flow from the air outlets over a range from the blue side (cool) to red side (warm).

4-4 Climate control

▼ Fan speed control dial

The fan operates only when the ignition switch is turned to the "ON" position. The fan speed control dial is used to select four fan speeds.

▼ Air flow control dial

This dial has the following five positions:

Air flows through the instrument panel outlets.

: Air flows through the instrument panel outlets and the foot outlets.

: Air flows through the foot outlets and some through the windshield defroster outlets.

: Air flows through the windshield defroster outlets and foot outlets.

: Air flows through the windshield defroster outlets.

NOTE

• You will find the notation "USE WITH 2 " on the air flow control dial plate.

This is intended to remind you to set the air inlet selection lever in the

" Solution when defogging the windshield.

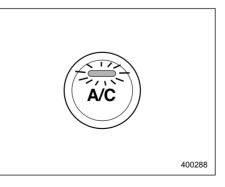
Defogging with the air inlet selection lever set in the " \checkmark " position provides better defogging performance than in the " \backsim " position.

• When the dial is placed in the " \ "" or " " position, the air conditioner compressor operates automatically regardless of the position of the air conditioner button to defog the windshield quickly.

However the indicator on the air conditioner button will not come on.

Also, you cannot stop the air conditioner compressor by pressing the air conditioner button.

▼ Air conditioner button



The air conditioner operates only when the engine is running.

Push the air conditioner button while the fan is in operation to turn on the air conditioner. The indicator light will come on.

Push it again to turn off the air conditioner.

▼ Air inlet selection lever

(Recirculation): Interior air is recirculated inside the vehicle.

Place the air inlet selection lever in the

" c y osition for fast cooling with the air conditioner or when driving on a dusty road.

(Outside air): Outside air is drawn into the passenger compartment.

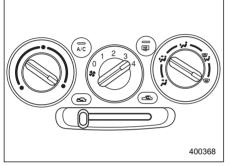
Place the air inlet selection lever in the

" bosition when the interior has cooled to a comfortable temperature and the road is no longer dusty.

WARNING

Heater operation

Defrosting or defogging the windshield



To direct warm air to the windshield and front door windows:

- 1. Set the air inlet selection lever to the " Solution.
- 2. Set the air flow control dial to the " $\langle H H \rangle$ " position.

3. Turn the temperature control dial all the way to the right.

4. Set the fan speed control dial to the highest speed.

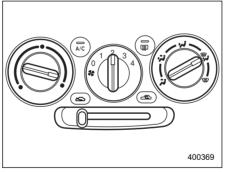
If your vehicle is equipped with an air conditioner, when the " $\forall the air$ or " the air" position is selected, the air conditioner compressor automatically operates regardless of the position of the air conditioner button to defog the windshield quickly.

However, the air conditioner indicator light does not come on at this time.

NOTE

Warm air also comes out from the right and left air outlets. To stop warm air flow from these outlets, turn the corresponding knob clockwise.

▼ Heating and defrosting



To direct warm air toward the floor and the windshield:

1. Set the air inlet selection lever to the " Set in position.

2. Set the air flow control dial to the " 🖉 " position.

3. Set the temperature control dial to the most comfortable level.

4. Set the fan speed control dial to the desired speed.

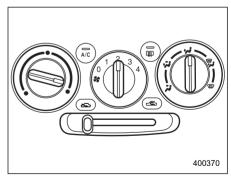
If your vehicle is equipped with an air conditioner, when the " $\forall \# \rangle$ " or " " position is selected, the air conditioner compressor automatically operates regardless of the position of the air conditioner button to defog the windshield quickly.

However, the air conditioner indicator light does not come on at this time.

NOTE

Warm air also comes out from the right and left air outlets. To stop warm air flow from these outlets, turn the corresponding knob clockwise.

▼ Heating



To direct warm air toward the floor:

4-6 Climate control

1. Set the air inlet selection lever to the " Solution.

2. Set the air flow control dial to the " ," position.

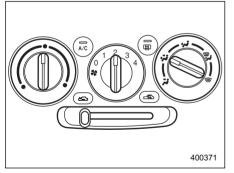
3. Set the temperature control dial to the most comfortable level.

4. Set the fan speed control dial to the desired speed.

NOTE

Warm air also comes out from the right and left air outlets. To stop warm air flow from these outlets, turn the corresponding knob clockwise.

▼ Bi-level heating



This setting allows you to direct air of different temperatures from the instrument panel and foot outlets. The air from the foot outlets is slightly warmer than from the instrument panel outlets.

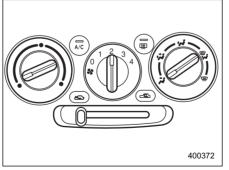
- 1. Set the air inlet selection lever to the " Set in position.
- 2. Set the air flow control dial to the " 🗳 " position.

3. Set the temperature control dial to the desired temperature level.

4. Set the fan speed control dial to the desired speed.

Setting the temperature control dial fully turned to the red area or blue area decreases the temperature difference between the air from the instrument panel outlets and the air from the foot outlets.

▼ Ventilation



To force outside air through the instrument panel outlets:

1. Set the air inlet selection lever to the " Set in position.

2. Set the air flow control dial to the " 龙 " position.

3. Set the temperature control dial all the way left.

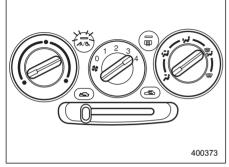
4. Set the fan speed control dial to the desired speed.

When driving on a dusty road, set the air inlet control lever to the "

Continued operation in the " \bigcirc " position may fog up the windows. Switch to the " \bigcirc " position as soon as the outside dusty condition clears.

■ Air conditioner operation

Cooling or dehumidifying



For cooling and dehumidification of the passenger compartment, performing the following steps will allow air to flow through the instrument panel outlets:

1. Set the air inlet selection lever to the " Solution.

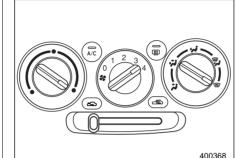
2. Set the air flow control dial to the " 📁 " position.

3. Set the air conditioner button to the "ON" position.

4. Set the temperature control dial to the blue side.

5. Set the fan speed control dial at the highest speed.

▼ Defrosting or defogging



To direct warm air to the windshield and front door windows:

1. Set the air inlet selection lever to the " Set in position.

2. Set the air flow control dial to the " $\overleftarrow{\psi\psi}$ " position.

3. Set the temperature control dial to the red side.

4. Set the fan speed control dial at the highest speed.

The air conditioner compressor automatically operates when the air flow control dial set in the " ()" or " ()" rosition to provide better defogging performance.

However, the air conditioner indicator light does not come on at this time.

Automatic climate control system *

Although this climate control system can be used as a full-automatic climate control system, it can also, if desired, be used as a semi-automatic climate control system. When it is used as a full-automatic climate control system, the outlet air temperature, fan speed, air flow distribution, air inlet control, and air conditioner compressor operation are all automatically controlled to maintain a constant, comfortable temperature inside the vehicle.

NOTE

• Operate the automatic climate control system when the engine is running.

• When the engine coolant is cold, the blower does not run.

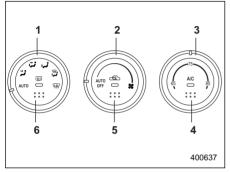
• In the "AUTO" mode, when the air temperature in the passenger compartment is sufficiently cool, the air conditioner compressor does not operate. For efficient defogging or dehumidifying in cold weather, press the "A/C" button to operate the air conditioner compressor.

• Even when cooling is not necessary, setting the temperature much lower than the current outlet air temperature

4-8 Climate control

turns on the air conditioner compressor automatically and the "A/C" indicator light on the control panel comes on.

Control panel



- 1) Air flow control dial
- 2) Fan speed control dial
- 3) Temperature control dial
- 4) Air conditioner button
- 5) Air inlet selection button
- Rear window defogger button (Refer to the "Rear window defogger button" section in chapter 3.)

To use as full-automatic climate control system

Place the temperature control dial in the position for your desired temperature,

then set the other dials and buttons as described in the following. The system's functions will then switch to AUTO mode and be controlled automatically.

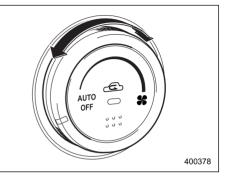
- Air flow control dial: AUTO position
- Fan speed control dial: AUTO position
- Air inlet selection button: Press for at least 1 second. (Indicator will flash twice.)
- Air conditioner button: Press for at least 1 second. (Indicator will flash twice.)

■ To use as semi-automatic climate control system

Each function can be individually set to AUTO mode independently of the others. Any function set to AUTO mode is controlled automatically. Any function not set to AUTO mode can be manually adjusted as desired.

The temperature can be set within a range of 65 to $85^{\circ}F$ (20 to $30^{\circ}C$).

Fan speed control dial



The fan operates only with the ignition switch in the ON position. The fan speed control dial is used to select the AUTO (automatic control) mode or to select the desired fan speed. The dial's positions and their functions are as follows:

OFF: The fan does not operate.

AUTO: The fan speed is adjusted automatically in accordance with the air temperature inside and outside the passenger compartment, the intensity of sunlight, and other factors. Saab recommends using the AUTO position.

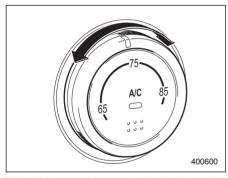
Other positions: The fan speed can be adjusted in 25 steps.

NOTE

With the fan speed control dial in the

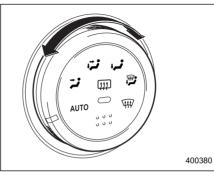
AUTO position and the air flow control dial in the " ثن ", " ثن ", or " " " position, the fan does not operate during engine warmup until the engine coolant temperature exceeds approx. 122°F (50°C).

Temperature control dial



This dial is used to set the desired interior temperature. With the dial set to your desired temperature, the system automatically adjusts the temperature of air supplied from the outlets such that the desired temperature is achieved and maintained. If the dial is turned fully counterclockwise, the system gives maximum cooling performance. If the dial is turned fully clockwise, the system gives maximum heating performance.

■ Air flow control dial



This dial has the following six positions. The outlets from which air is supplied in each position are as follows:

AUTO: The air flow control is adjusted automatically in accordance with the air temperature inside and outside the passenger compartment, the intensity of sunlight, and other factors. Saab recommends using the AUTO position.

: Instrument panel outlets and foot outlets

• Foot outlets and windshield defroster outlets (relatively little air from windshield defroster outlets)

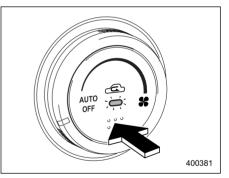
Windshield defroster outlets and foot outlets

Windshield defroster outlets

NOTE

When the dial is placed in the " $\langle H \rangle$ " or " $\langle H \rangle$ " position, the air conditioner compressor operates automatically to defog the windshield quickly. At the same time, the air inlet selection is automatically set to "outside air" mode.

■ Air inlet selection button



ON position (Recirculation): Interior air is recirculated inside the vehicle. Push the air inlet selection button to the ON position for fast cooling with the air conditioner or when driving on a dusty road. The indicator light will come on.

- CONTINUED -

4-10 Climate control

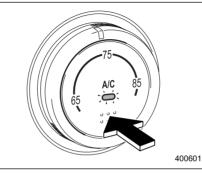
OFF position (Outside Air): Outside air is drawn into the passenger compartment. Push the air inlet selection button to the OFF position when the interior has cooled to a comfortable temperature and the road is no longer dusty. The indicator light will go off.

AUTO: When the air inlet selection button is pressed for at least 1 second, the indicator flashes twice. The air inlet control is then adjusted automatically in accordance with the air temperature inside and outside the passenger compartment, the intensity of sunlight, and other factors. Pressing the air inlet selection button cancels the "AUTO" mode. Saab recommends using the AUTO position.

WARNING

Continued operation in the ON position may fog up the windows. Switch to the OFF position as soon as the outside dusty condition clears.

■ Air conditioner button



The button's positions and their functions are as follows:

ON: The air conditioner operates while the fan is running.

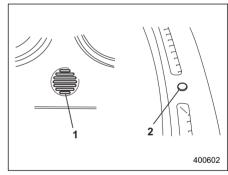
Push the button to select this position. The indicator light will illuminate.

OFF:The air conditioner does not operate. Push the button a second time to select this position. The indicator light will go off. **AUTO:** When the button is pressed for at least 1 second, the indicator flashes twice. The air conditioner compressor operation is then adjusted automatically in accordance with the air temperature inside and outside the passenger compartment, the intensity of sunlight, and other factors. Pressing the button cancels the "AUTO" mode. Saab recommends using the AUTO position.

NOTE

The air conditioner's compressor does not operate with an outside temperature of $32^{\circ}F(0^{\circ}C)$ or lower.

Temperature sensors



Interior air temperature sensor
 Solar sensor

The automatic climate control system employs several sensors. These sensors are delicate. If they are not treated properly and become damaged, the system may not be able to control the interior temperature correctly. To avoid damaging the sensors, observe the following precautions:

- Do not subject the sensors to impact.
- Keep water away from the sensors.
- Do not cover the sensors.

The sensors are located as follows:

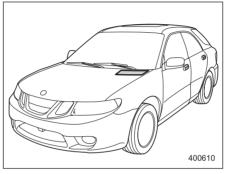
- Solar sensor: beside windshield defroster grille

- Interior air temperature sensor: beside the fan speed control dial

– Outside temperature sensor: behind front grille.

Operating tips for heater and air conditioner

Cleaning ventilation grille



Always keep the front ventilation inlet grille free of snow, leaves, or other obstructions to ensure efficient heating and defrosting. Since the condenser is located in front of the radiator, this area should be kept clean because cooling performance is impaired by any accumulation of insects and leaves on the condenser.

Efficient cooling after parking in direct sunlight

After parking in direct sunlight, drive with the windows open for a few minutes to al-

low outside air to circulate into the heated interior. This results in quicker cooling by the air conditioner. Keep the windows closed during the operation of the air conditioner for maximum cooling efficiency.

Lubrication oil circulation in the refrigerant circuit

Operate the air conditioner compressor at a low engine speed (at idle or low driving speeds) a few minutes each month during the off-season to circulate its oil.

Checking air conditioning system before summer season

Check the air conditioner unit for refrigerant leaks, hose conditions, and proper operation each spring. This check is best performed by your Saab dealer.

Cooling and dehumidifying in high humidity and low temperature weather conditions

Under certain weather conditions (high relative humidity, low temperatures, etc.) a small amount of water vapor emission from the air outlets may be noticed. This condition is normal and does not indicate any problem with the air conditioning system.

Air conditioner compressor shut-off when engine is heavily loaded

To improve acceleration and gas mileage, the air conditioner compressor is designed to temporarily shut off during air conditioner operation whenever the accelerator is fully depressed such as during rapid acceleration or when driving on a steep upgrade.

Refrigerant for your climate control system

Your air conditioner uses ozone friendly refrigerant HFC134a. Therefore, the method of adding, changing or checking the refrigerant is different from the method for CFC12 (Freon). Consult your Saab dealer for service. Repairs needed as a result of using the wrong refrigerant are not covered under warranty.

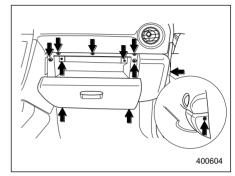
Air filtration system *

If your vehicle's air conditioning system is equipped with an air filtration system, replace the filter element according to the replacement schedule shown in the following. This schedule should be followed to maintain the filter's dust collection ability. Under extremely dusty conditions, the filter should be replaced more frequently. It is recommended that you have your filter checked or replaced by your Saab dealer. For replacement, use only a genuine Saab air filter kit.

Replacement schedule:

Every 12 months or 15,000 miles (24,000 km) whichever comes first

Replacing an air filter

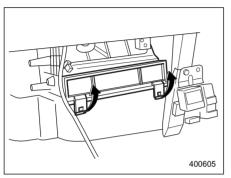


1. Remove the glove box.

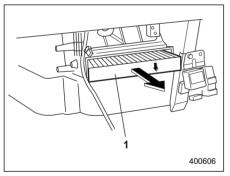
1) Open the glove box.

2)Remove the nine screws and the one clip securing the glove box.

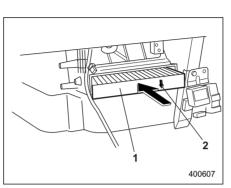
3)Disconnect the glove box light connector.



2. Unhook the hooks of the air filter cover and remove the cover.



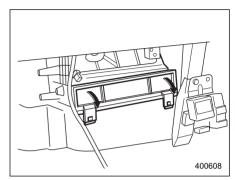
- 1) Air filter element
- 3. Draw out the air filter element.



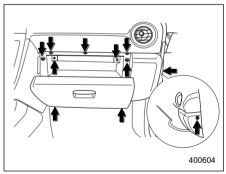
Air filter element
 Arrow mark

4. Replace the air filter element with new one.

The arrow mark on the filter must point down.



5. Reinstall the air filter cover.



6. Connect the connector, and reinstall the glove box.

7. Close the glove box.

4-14 Climate control

CAUTION

Contact your dealer if the following occurs, even if it is not yet time to change the filter:

- Reduction of the air flow through the vents.
- Windshield gets easily fogged or misted.

NOTE

The filter can influence the air conditioning, heating and defroster performance if not properly maintained.

Audio

5

Antenna system	5-2
Printed antenna	5-2
FM reception	5-2
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•	

* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Antenna system

Printed antenna

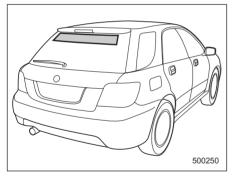
Do not use sharp instruments or window cleaner containing abrasives to clean the inner surface of the window on which the antenna is printed. Doing so may damage the antenna printed on the window.

FM reception

Although FM is normally static free, reception can be affected by the surrounding area, atmospheric conditions, station strength and transmitter distance. Buildings or other obstructions may cause momentary static, flutter or station interference. If reception continues to be unsatisfactory, switch to a stronger station.

Installation of accessories

Always consult your Saab dealer before installing a citizen band radio or other transmitting device in your vehicle. Such devices may cause the electronic control system to malfunction if they are incorrectly installed or if they are not suited for the vehicle.

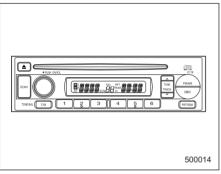


The antenna is printed on the inner surface of the rear window glass.

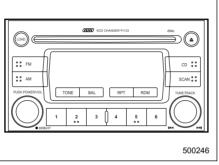
Audio Systems

Your Saab may be equipped with one of the following audio sets. See the pages indicated in this section for operating details.

■ AM/FM/Single-CD Audio System



Premium AM/FM/6-CD Audio System



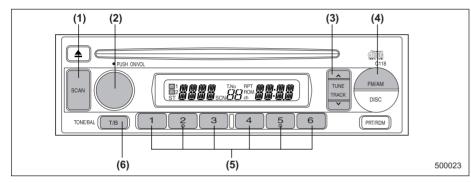
- Radio operation: refer to page 5-12
- Built-in CD changer operation: refer to page 5-16

- Radio operation: refer to page 5-4
- Compact disc player operation: refer to page 5-8
- ČD changer control: refer to page 5-9

AM/FM/Single-CD Audio System *

The radio will operate only when the ignition switch is in the "ACC" or "ON" position.

Radio operation



- (1) SCAN button
- (2) Power switch, Volume control, Bass/ Treble control and Fader/Balance control dial
- (3) Tuning buttons
- (4) FM/AM selection button
- (5) Preset buttons
- (6) Tone/Balance button

Power switch and volume/bass/treble/fader/balance control (PWR/ VOL)

The dial (2) is used for both power (ON/ OFF) and volume control. The radio is turned ON and OFF by pushing the dial and the volume is controlled by turning the dial.

∇ Tone and balance control

The "VOLUME" control knob normally function as volume control. This knob becomes a control for Treble, Bass, Fader or Balance when you select the appropriate audio mode.

Choose desired volume level for each mode by turning the "VOLUME" control knob. The control function returns to volume control mode after approximately 5 seconds.

To change control modes: Each brief press of the "T/B" button changes control

modes in the following sequence starting from volume control mode. (When the radio is first turned on, the control mode is in the volume control.)

Volume \rightarrow Bass \rightarrow Treble (VOL) (BAS) (TRE) \uparrow Fader Balance (FAD) (BAL) 5-6 Audio

Display	Control mode	50009	
		Turn counterclockwise	Turn clockwise
BAS	Bass control	For less bass sound	For more bass sound
TRE	Treble control	For less treble sound	For more treble sound
BAL	Balance control	To increase left speaker volume and decrease right speaker volume	To increase right speaker volume and decrease left speaker volume
FAD	Fader control	To increase rear speaker volume and decrease front speaker volume	To increase front speaker volume and decrease rear speaker volume
VOL	Volume control	For less volume	For more volume

▼ FM/AM selection button (FM/AM)

Push the "FM/AM" button (4) when the radio is off to turn on the radio. Push the "FM/AM" button when the radio is on to select FM1, FM2 or AM reception. Each time this button is pressed, the band will change in the following order:

$$FM1 \longrightarrow FM2 \longrightarrow AM$$

The display indicates which one is currently selected.

▼ Stereo indicator

The stereo indicator "ST" will come on when an FM stereo broadcast is received.

▼ Manual tuning (TUNE)

Push the " \wedge " side of the tuning button (3) to increase the tuning frequency and press the " \vee " side of the button to decrease it.

Each time the button is pressed, the frequency changes 10 KHz in the AM waveband and 0.2 MHz in the FM waveband. Constant pressure on the button causes a continuous change in the frequency.

▼ Automatic tuning (SCAN)

Press the "SCAN" button (1) to change the radio to the SCAN mode. In this mode, the

radio scans through the radio band until a station is found. The radio will stop at the station for five seconds while displaying the frequency, after which scanning will continue until the entire band has been scanned from the low end to the high end. Press the "SCAN" button again to cancel the SCAN mode and to stop on any displayed frequency.

When the "SCAN" button is pressed for automatic tuning, stations are scanned in the direction of low frequencies to high frequencies only.

Automatic tuning may not function properly if the station reception is weakened by distance from the station or proximity to tall buildings and hills.

▼ Selecting preset stations

Presetting a station with a "Preset" button (5) allows you to select that station in a single operation. Up to six AM, FM1 and FM2 stations each may be preset.

▼ How to preset stations

1. Press the "FM/AM" selection button to select AM, FM1 or FM2 reception.

2. Press the "SCAN" button (1) or tune the radio manually until the desired station frequency is displayed.

3. Press one of the "Preset" buttons (5) for **at least 2 seconds** to store the frequency. The frequency of the station will

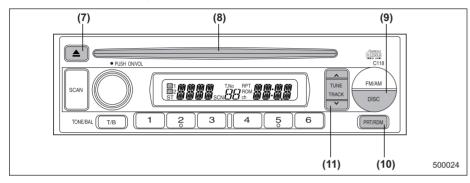
flash once on the display at this time. If the button is pressed for less than 2 seconds, the preceding selection will remain in memory.

NOTE

• If the connection between the radio and battery is broken for any reason such as vehicle maintenance or radio removal, all stations stored in the preset buttons are cleared. If this occurs, it is necessary to reset the preset buttons.

• If a cell phone is placed near the radio, it may cause the radio to emit noise when it receives calls. This noise does not indicate a radio fault.

Compact disc player operation



(7) Eject button

- (8) Disc slot
- (9) DISC button
- (10) Repeat/Random button
- (11) Track selection buttons

▼ To play back a compact disc

∇ When CD is not in the player

Hold a disc with a finger in the center hole while gripping the edge of the disc, then insert it in to the slot (with the label side up) and the player will automatically pull the disc into position.

A single CD (8 cm/3 inch CD) may also be used without any adapter.

NOTE

• Make sure to always insert a disc with the label side up. If a disc is inserted with the label side down, it might be ejected or the player might shut off.

• After the last song finishes, the player will automatically return to track 1 (the first song on the disc).

• CD-RWs cannot be used. Also, some CD-Rs cannot be played.

∇ When CD is in the player

Press the "DISC" button (9). The display will show "CD" and the player will start playback.

NOTE

After the last song finishes, playback will automatically return to track 1 (the first song on the disc).

▼ To select a song from its beginning

∇ Forward direction

Briefly press the " \wedge " side of the track selection button (11) to skip to the beginning of the next track. Each time this side of the button is pressed, the indicated track number will increase.

∇ Backward direction

Briefly press the " \lor " side of the button (11) to skip to the beginning of the current track. Each time this side of the button is pressed, the indicated track number will decrease.

▼ Fast-forwarding and fast-reversing

∇ Fast-forwarding

Press the " $_{\wedge}$ " side of the button (11) continuously to fast-forward the disc. Release the button to stop fast-forward-ing.

\bigtriangledown Fast-reversing

Press the " \lor " side of the button (11) continuously to fast-reverse the disc. Release the button to stop fast-reversing.

▼ Repeat playback

Press the "RPT/RDM" button (10) and release it in less than 2 seconds while a song is playing to play the song repeatedly. The "RPT" indicator will come on and the song will be played continuously. To cancel the repeat mode, press the button again. Then the "RPT" indicator goes out, and normal playback mode is restored.

▼ Random playback

Press the "RPT/RDM" button (10) and hold it in for more than 2 seconds while a disc is being played back to play all songs on the disc in a random order. The "RDM" indicator will come on and all songs on the disc will be played in a random order. To cancel the random mode, press the button again. Then the "RDM" indicator

goes out, and normal playback mode is restored.

▼ To eject a disc from the player

When a disc is being played back or when a disc is in the player, press the "Eject" button " <u>a</u>" (7). The disc will be ejected. The disc may be removed even when the ignition switch is in the "LOCK" position.

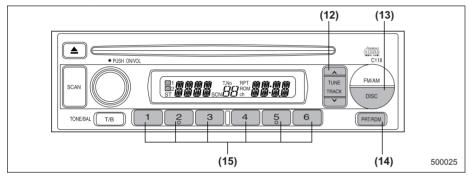
NOTE

Avoid driving the vehicle with a CD sticking out, because vibration might make it fall out.

5-10 Audio

CD changer control (if optional in-dash CD changer is connected)

An optional CD changer can be connected to this audio unit. Consult the instructions that accompany the CD changer for operating the CD changer itself (e.g., how to load or unload CDs). See your Saab dealer for more information.



(12) Track selection buttons(13) DISC button(14) Repeat/Random button(15) Disc select button

▼ To start playback

When the "CD" button (13) is pressed, the CD changer will start playback. The display shows the current disc number, track number and the elapsed time during playback.

NOTE

• If a disc is in the player, the "DISC" button is used to change from CD player operation to DISC changer operation. Each time the "DISC" button is pressed, the operating mode will change alternately.

• At the end of the disc, the player automatically continues with the next disc.

• After playback on the last disc finishes, playback will automatically return to the first disc.

• If you have loaded fewer than 6 discs, any missing disc is automatically skipped.

▼ Selection of a desired disc

You can select a desired disc from among the discs contained in the CD changer

only by pressing the corresponding number on one of the "Disc select" buttons (15). If you are to listen to the 5th disc in the CD changer, press the "5" button of the "Disc select" buttons (15). All other discs in the CD changer can also be selected in a similar way.

NOTE

• No disc change takes place if the button corresponding to the storage tray in which no disc is loaded is pressed.

• If the disc select button corresponding to the disc now in playback is pressed again, the disc will be replayed from its beginning.

▼ To select a song from its beginning

∇ Forward direction

Briefly press the " $_{\wedge}$ " side of the button (12) to skip to the beginning of the next track. Each time this side of the button is pressed, the indicated track number will increase.

∇ Backward direction

Briefly press the " \lor " side of the button (12) to skip to the beginning of the current track. Each time this side of the button is pressed, the indicated track number will decrease.

▼ Fast-forwarding and fast-reversing

∇ Fast-forwarding

Press the " \wedge " side of the button (12) continuously to fast-forward the disc. Release the button to stop fast-forward-ing.

If you continue fast-forwarding to the end of the disc, the CD changer will automatically stop fast-forwarding and start playback beginning with the first track on the current disc.

∇ Fast-reversing

Press the " \lor " side of the button (12) continuously to fast-reverse the disc. Release the button to stop fast-reversing. If you continue fast-reversing to the beginning of the disc, the CD changer will automatically stop fast-reversing and start playback beginning with the first track on the current disc.

▼ Repeat playback

Use this to play a certain track repeatedly. During playback, press the "RPT/RDM" button (14) and release it in less than 2 seconds. The "RPT" indicator will come on and the song will be played continuously. To cancel the repeat mode, press the button again. Then the "RPT" indicator goes out, and normal playback mode is restored.

▼ Random playback

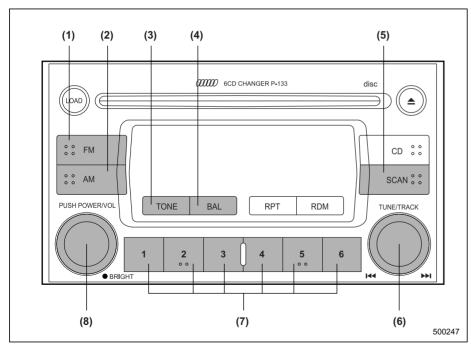
Use this to play the tracks on the disc in random order. During playback, press the "RPT/RDM" button (14) and hold it in for more than 2 seconds. The "RDM" indicator will come on and all songs on the disc will be played in a random order.

To cancel the random mode, press the button again. Then the "RDM" indicator goes out, and normal playback mode is restored.

Premium AM/FM/6-CD Audio System *

The radio will operate only when the ignition switch is in the "ACC" or "ON" position.

■ Radio operation



- (1) FM button
- (2) AM button
- (3) Tone selection button
- (4) Balance selection button
- (5) SCAN button
- (6) Tuning knob
- (7) Preset buttons
- (8) Power switch, Volume control, Bass/ Midrange/Treble control and Fader/ Balance control dial

Power switch and volume/bass/treble/fader/balance control (PWR/ VOL)

The dial (8) is used for both power (ON/ OFF) and volume control. The radio is turned ON and OFF by pushing the dial and the volume is controlled by turning the dial.

This dial is used for bass/midrange/treble controls when the "TONE" button (3) is in the depressed position. It is also used for fader/balance controls when the "BAL" button (4) is in the depressed position.

Display	Control mode	50009	
		Turn counterclockwise	Turn clockwise
BASS	Bass control	For less bass sound	For more bass sound
MIDDLE	Midrange control	For less midrange sound	For more midrange sound
TREBLE	Treble control	For less treble sound	For more treble sound
FADER	Fader control	To increase rear speaker volume and decrease front speaker volume	To increase front speaker volume and decrease rear speaker volume
BALANCE	Balance control	To increase left speaker volume and decrease right speaker volume	To increase right speaker volume and decrease left speaker volume
VOLUME	Volume control	For less volume	For more volume

5-14 Audio

∇ Tone control

The volume control dial (8) normally function as volume control. The dial becomes a control for Bass. Midrange or Treble when you select the appropriate tone control mode.

Choose desired level for each mode by turning the volume control dial. The control function returns to volume control mode after approximately 5 seconds.

To change control modes: Each brief press of the "TONE" button (3) changes control modes in the following sequence starting from bass control mode. (When the radio is first turned on, the control mode is in the volume control.)

 $BASS \longrightarrow MIDDLE \longrightarrow TREBLE$ VOLUME <----

∇ Fader and balance control

The volume control dial (8) normally function as volume control. The dial become the controls for Fader or Balance when you select the appropriate fader and balance control mode.

Choose desired setting for each mode by turning the volume control dial. The control function returns to volume control mode after approximately 5 seconds.

To change control modes: Each brief press of the "BAL" button (4) changes control modes in the following sequence starting from fader control mode. (When the radio is turned on, the control mode is in the volume control.)

▽ Display illumination dimness cancellation (BRIGHT)

The brightness of the radio display dims when the light switch is in the " = o = " or $\equiv \bigcirc$ " positions. If this makes the display difficult to read, press the volume dial for more than 1.5 seconds to return the display to original brightness.

Subsequently pressing the volume dial again for more than 1.5 seconds or if you can safely do so, turning the light switch to the OFF position and back to the " =pos " or " ≣○ " position makes the radio display dim again.

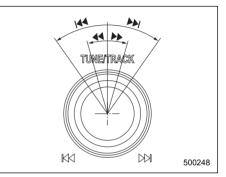
▼ FM/AM selection button

Push the "FM" (1) or "AM" (2) button when the radio is off to turn on the radio. Push the "FM" or "AM" button when the radio is on to select FM1, FM2 or AM reception.

▼ Stereo indicator

The stereo indicator "ST" will come on when an FM stereo broadcast is received

Manual tuning (TUNE)



- Tuning to a higher frequency \mathbf{b}
 - : Tuning to a lower frequency
- : Seeking the next higher station ы
- M Seeking the next lower station

∇ Manual tuning

Turn the tuning knob (6) clockwise and release it immediately to increase the tuning frequency and turn the tuning knob counterclockwise and release it immediately to decrease the tuning frequency. Each time the knob is turned, the frequen-

cy changes 10 kHz in the AM waveband and 0.2 MHz in the FM waveband.

∇ Seek tuning

Turn the tuning knob (6) and hold it for more than a half second. Seek tuning will operate and stop automatically on the next station.

Continue this operation until you find the desired station.

▼ Automatic tuning (SCAN)

Press the "SCAN" button (5) to change the radio to the SCAN mode. In this mode, the radio scans through the radio band until a station is found. The radio will stop at the station for five seconds while displaying the frequency, after which scanning will continue until the entire band has been scanned from the low end to the high end. Press the "SCAN" button again to cancel the SCAN mode and to stop on any displayed frequency.

When the "SCAN" button is pressed for automatic tuning, stations are scanned in the direction of low frequencies to high frequencies only.

Automatic tuning may not function properly if the station reception is weakened by distance from the station or proximity to tall buildings and hills.

▼ Selecting preset stations

Presetting a station with a "Preset" button (7) allows you to select that station in a

single operation. Up to six AM, FM1 and FM2 stations each may be preset.

▼ How to preset stations

1. Press the "FM/AM" selection button to select AM, FM1 or FM2 reception.

2. Press the "SCAN" button (5) or tune the radio manually until the desired station frequency is displayed.

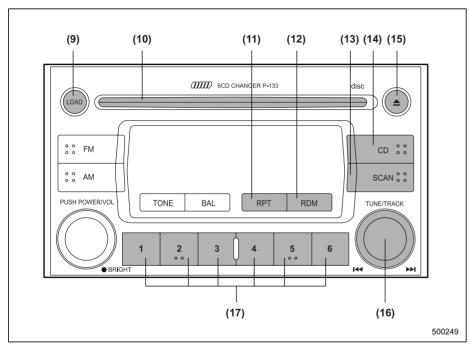
3. Press one of the "Preset" buttons (7) for **at least 1.5 seconds** to store the frequency. The frequency of the station will flash once on the display at this time. If the button is pressed for less than 1.5 seconds, the preceding selection will remain in memory.

NOTE

• If the connection between the radio and battery is broken for any reason such as vehicle maintenance or radio removal, all stations stored in the preset buttons are cleared. If this occurs, it is necessary to reset the preset buttons.

• If a cell phone is placed near the radio, it may cause the radio to emit noise when it receives calls. This noise does not indicate a radio fault.

Built in CD changer operation



- (9) LOAD button
- (10) Disc slot
- (11) Repeat button
- (12) Random button
- (13) SCAN button
- (14) CD button
- (15) Eject button
- (16) Fast-forwarding/Fast-reversing and track UP/DOWN knob
- (17) Disc select button

NOTE

• Make sure to always insert a disc with the label side up. If a disc is inserted with the label side down, it might be ejected or the player might shut off.

• Certain CD-Rs and CD-RWs cannot be played.

▼ How to insert a CD(s)

\bigtriangledown Inserting a CD

1. Press "LOAD" button (9). If the magazine in the player has an open position where you can insert a disc, the "DISC" indicator associated with the open position will blink. The capacity is 6 discs. If no indicator blinks, it means that there is no open position in the magazine.

2. As soon as the "DISC" indicator begins to blink, the "LOAD" will appear on display for a period of 15 seconds. Insert a disc

during the period. The disc will be then automatically drawn in, and the player will begin to play back the first track of the disc.

• To insert more discs in succession, repeat Steps 1 and 2. The magazine will be loaded with discs in the ascending order of position number.

If you do not insert any disc in 15 seconds after you have pressed the "LOAD" button, the player will begin to play back the first track of the last disc you have inserted.

• The disc indicator steadily lights up if a disc is already inserted in the corresponding position of the magazine.

• While the player is in the loading mode, if you press any of the other mode buttons "FM" (1), "AM" (2), the player will enter the standby mode. Press the "CD" button (14) to start playback.

$\nabla\,$ Inserting a disc in a desired position

1. Press the "LOAD" button (9). If the magazine in the player has an open position where you can insert a disc, the "DISC" indicator associated with the open position will blink.

The positions in the magazine the indicator of which steadily lights up are already loaded with discs.

2. Press the "Disc select" button (17) at

the position where you want to insert a disc. The associated "DISC" indicator will blink, and the "LOAD" will be displayed.

3. If you insert a disc during the 15-second period while the "LOAD" is on display, the disc will be automatically drawn in, and the player will start playback of the disc, beginning with the first track.

• To insert more discs in succession, repeat Steps 1 and 2.

• While the player is in the loading mode, if you press any of the other mode buttons "FM" (1), "AM" (2), the player will enter standby mode. Press the "CD" button (14) to start playback.

▽ Loading the magazine (Full disc loading mode)

1. If you continue to press the "LOAD" button (9) for more than 1.5 seconds, the player will produce a beeping sound and will enter the full disc loading mode.

2. A "DISC" indicator will blink, and the "ALL LOAD" will be on display for a period of 15 seconds. If a disc is successfully loaded during this period, the "DISC" indicator will stop blinking and will steadily light.

3. When the loading of a disc is complete, the next "DISC" indicator will blink. Then repeat Step 2.

4. When the magazine is filled with discs

by repeating Steps 2 and 3, the player will start playback of the discs, beginning with the one inserted first.

If you fail to insert any disc during each 15 seconds interval, the full disc loading mode will be canceled, and the player will start playback of the disc inserted first.

How to play back a CD or make a pause

∇ When there is no CD inserted:

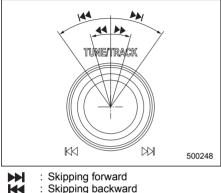
Insert a CD by referring to "How to Insert a CD(s)".

When a CD is loaded, the player will start playback of the CD, beginning with the first track.

∇ When there are CDs loaded:

Press a desired one of the "Disc select" buttons (17) the "DISC" indicator of which steadily lights up. The player will then start playback of the selected CD, beginning with the first track.

Selecting a desired track (TRACK)



Skipping backward

: Fast-forwarding

Fast-reversing ----

∇ Skipping forward

 \blacktriangleright

Turn the "TRACK" knob (16) clockwise and release it immediately to skip to the beginning of the next track. Each time the knob is turned and released, the indicated track number will increase.

∇ Skipping backward

Turn the "TRACK" knob (16) counterclockwise and release it immediately to skip to the beginning of the current track. If you continue to turn and release the knob, the indicated track number will decrease.

▽ Fast-forwarding

Turn the "TRACK" knob (16) clockwise and hold it continuously to fast-forward the disc.

Release the knob to stop fast-forwarding.

▽ Fast-reversing

Turn the "TRACK" knob (16) counterclockwise and hold it continuously to fastreverse the disc.

Release the knob to stop fast-reversing.

Repeat playback

Press the "RPT" button (11) while a song is plaving to play the song repeatedly. The "RPT" indicator will come on and the song will be played continuously. To cancel the repeat mode, press the button again. Then the "RPT" indicator goes out, and normal playback mode is restored.

▼ Random playback

Press the "RDM" button (12) while a disc is being played back to play all songs on the disc in a random order. The "RDM" indicator will come on and all songs on the disc will be played in a random order.

To cancel the random mode, press the button again. Then the "RDM" indicator goes out, and normal playback mode is restored.

▼ Scan

When the "SCAN" button (13) is pressed while the disc is being played back, you can hear the first 10 seconds of each track to search for the desired program. To continue listening to the program, press the "SCAN" button again. After all tracks on the disc have been scanned, normal playback mode is restored

How to unload CDs from the player

∇ Ejecting a CD from the player

Of the discs loaded, you can select and remove only one disc.

1. Press the "Disc select" button (17) of the disc whose "DISC" indicator is ON.

2. Press the "Eject" button (15). Then the "DISC" indicator associated with the disc you have selected will blink, and the disc will be ejected.

To remove more discs in succession, repeat Steps 1 and 2.

∇ Ejecting all discs from the player (All disc ejection mode)

1. If you continue to press the "Eject" button (15), the player will produce a beeping sound and will enter the all disc ejection mode.

2. Remove the disc that has been ejected. The other discs loaded will then be eiected one after another. If you do not remove the disc that has been ejected, the "All disc ejection mode" will be canceled.

NOTE

Avoid driving the vehicle with a CD sticking out, because vibration might make it fall out.

Precautions to observe when handling a compact disc

Use only compact discs (CDs) that have the mark shown in the following illustration.



500033

You may also use compact discs (CD-Rs and CD-RWs) that have the following marks, but you may not use some discs if they were produced using writing methods not compatible with your vehicle's audio system.





500010



• You cannot use a DualDisc in the CD player. If you insert a DualDisc into the player, the disc may not come out again, possibly causing the player to malfunction.

• In cold and/or rainy weather, dew can

- CONTINUED -

5-20 Audio

form inside the CD player, preventing normal operation. If this happens, eject the CD and wait for the player to dry out.

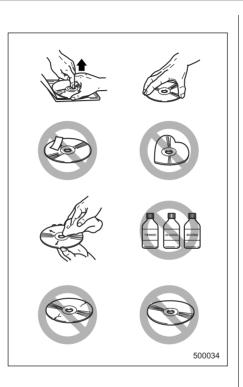
• Skipping may occur when the CD player is subjected to severe vibration (for example, when the vehicle is driven on a rough surface).

• To remove a disc from the case, press the center of the case and hold both edges of the disc. If the disc surface is touched directly, contamination could cause poor tone quality. Do not touch the disc surface.

• Use a clean disc whenever possible. If there are deposits, wipe the disc surface from the center outward with a dry, soft cloth. Be sure not to use a hard cloth, thinner, benzene, alcohol, etc.

• Do not use any disc that is scratched, deformed, or cracked. Also, do not use any disc that has a non-standard shape (for example, a heart shape). Malfunctions or problems might result.

• A disc is vulnerable to heat. Never keep it either in places exposed to direct sunlight, near heaters or in vehicles parked in the sun or on hot days.



Interior equipment

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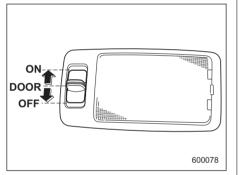
* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

6-2 Interior equipment

Interior light

When leaving your vehicle, make sure the light goes out to avoid battery discharge.

Dome light



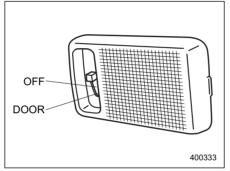
The dome light switch has three positions:

ON: The light stays on continuously. **DOOR (middle position):** The dome light comes on when any of the doors (or the rear liftgate) is opened. The light remains on for several seconds and gradually goes out after all doors (and the rear liftgate) are closed or if the key is inserted in the ignition switch.

The light can also be turned on by use of the remote keyless entry transmitter. See

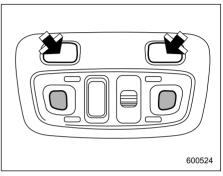
the "Remote keyless entry system" section in chapter 2 for detailed information. **OFF:** The light stays off.

Cargo area light

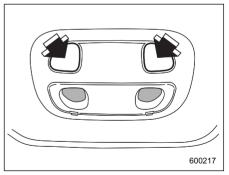


DOOR:The light comes on only when the rear liftgate is opened. **OFF:** The light stays off.

Map light *



Vehicle with moonroof

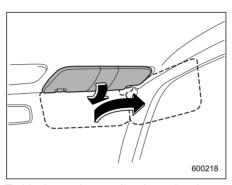


Vehicle without moonroof

To turn on the map light, push the switch. To turn it off, push the switch again.

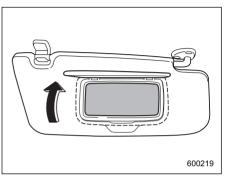
When leaving the vehicle, make sure the light is turned off to avoid battery discharge.

Sun visors



To block out glare, swing down the visors. To use the sun visor at a side window, swing it down and move it sideways.

■ Vanity mirror



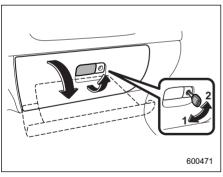
To use the vanity mirror, swing down the sun visor and open the vanity mirror cover.

6-4 Interior equipment

Storage compartments

- Always keep the storage compartment closed while driving to reduce the risk of injury in the event of sudden stops or an accident.
- Do not store spray cans, containers with flammable or corrosive liquids or any other dangerous items in the storage compartment.

■ Glove box

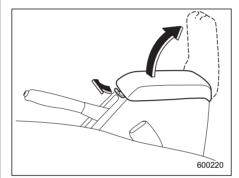


- 1) Lock
- 2) Unlock

To open the glove box, pull the handle. To close it, push the lid firmly upward.

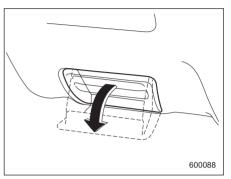
To lock the glove box, insert the key and turn it clockwise.

Center console



To open the lid, pull up the lock release.

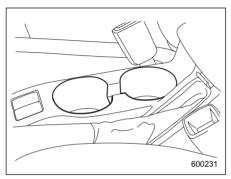
Coin tray



To open the coin tray, pull the upper edge of the lid.

Cup holder

Front passenger's cup holder

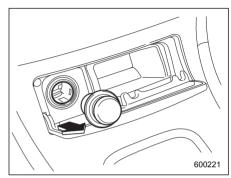


A dual cup holder is built in the center console, beside the parking brake lever.

- When not in use, always keep the holder stored while driving to reduce the risk of injury in the event of a sudden stop or an accident.
- Do not pick up a cup from the cup holder or put a cup in the holder while you are driving, as this may distract you and lead to an accident.

• Take care to avoid spills. Beverages, if hot, might burn you or your passengers. Spilled beverages may also damage upholstery, carpets or audio equipment.

Cigarette lighter socket

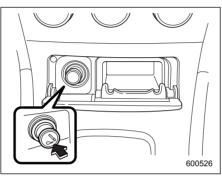


A cigarette lighter socket can be found behind the ashtray lid under the climate controls. Push gently on the lid to open it. A cigarette lighter plug is an optional accessory. It is available from your Saab dealer. The cigarette lighter socket may also be used as a power source for an in-car use electrical appliance.

6-6 Interior equipment

- The electrical power outlet located on the lower part of the instrument panel is originally designed to use a genuine Saab cigarette lighter plug. Do not use non-genuine cigarette lighter plugs in the socket. Doing so may cause a short-circuit and overheating, resulting in a fire.
- If the socket is ever used for a plug-in accessory such as a cell phone, that may damage the portion of the socket's internal mechanism that causes a cigarette lighter plug to "pop out" after its lighter element is heated. Therefore, do not place a cigarette lighter plug in a socket that has been used, even once, to power a plug-in accessory. Doing so may cause the plug to stick and overheat, creating a potential fire hazard.
- Do not place any foreign objects, especially metal ones such as coins or aluminum foil, into the socket. That could cause a short circuit.

■ Use with a cigarette lighter



The cigarette lighter operates only when the ignition switch is in the "ON" and "ACC" positions.

To use the cigarette lighter, push in the knob and wait a few moments. It will automatically spring up when ready for use.

To avoid being burned, never grasp the lighter by the end with the heating element. Doing so could result in injury and could also damage the heating element.

Do not hold the lighter pushed in, because it will overheat.

Using as an accessory power outlet

Electrical power (12V DC) from the battery is available at the socket when the ignition switch is either in the "ACC" or "ON" position.

If you use the socket as an accessory power outlet, take the following precautions.

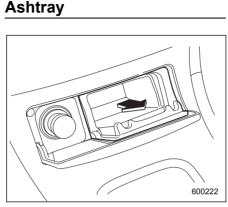
When the socket is not in use, always put the cap on the socket to prevent any foreign object from entering it.

• Use only in-car use electrical appliances which are designed for 12V DC and which consume less than 120W. Overloading the socket can cause a short circuit. Do not use double adapters or more than one electrical appliance.

Interior equipment 6-7

- If the plug on your electric appliance is either too loose or too tight for the socket, this can result in a poor contact or cause the plug to get stuck. Only use plugs that fit properly.
- Use of an electric appliance in the socket for a long period of time while the engine is not running can cause battery discharge.
- Before driving your vehicle, make sure that the plug and the cord on your electrical appliance will not interfere with your shifting gears and operating the accelerator and brake pedals. If they do, do not use the electrical appliance while driving.

If the socket has been used for electrical appliances, damage may have been done to the internal mechanism that causes a cigarette lighter to "pop out" after its element has been heated. For that reason, a cigarette lighter, even if it is a genuine part, should not be used in the socket. If you want to use the socket for a cigarette lighter again, or to protect your purchaser before you sell your vehicle, have your Saab dealer replace the socket with a new one.

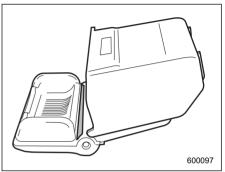


To open the ashtray, push lightly on the lid below the climate controls.

Fully close the ashtray after using it to help reduce residual smoke.

To remove the ashtray for cleaning, hold the right and left sides of the ashtray and pull it out.

NOTE

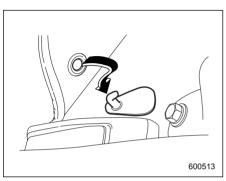


Particles of ash and tobacco will accumulate around the hinges of the ashtray's inner lid. Clean them off using a toothbrush or other narrow-ended implement.

Do not use ashtrays as waste receptacles or leave a lighted cigarette in an ashtray. This could cause a fire.

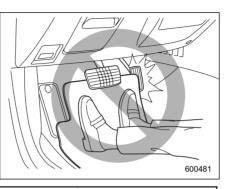
6-8 Interior equipment

Floor mat *



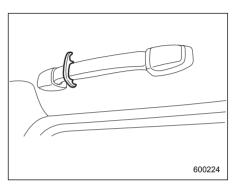
A retaining pin is located on the driver's side of the vehicle next to the fuel filler door release.

The floor mat is secured using the built-in grommet, by placing the grommet over the pin and pushing downward.



Make sure the driver's floor mat is placed back in its proper location and correctly secured on its retaining pin. If the floor mat slips forward and interferes with the movement of the pedals during driving, it could cause an accident.

Coat hook



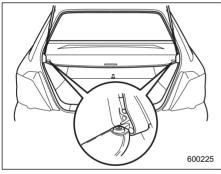
The coat hook is attached to the rear left passenger's hand grip.

Never hang anything on the coat hook that might obstruct the driver's view or that could cause injury in sudden stops or in a collision. And do not hang items on the coat hook that weigh more than 2.2 lbs (1 kg).

Cargo area cover

The cargo area cover is provided for covering the cargo area and to protect its contents from direct sunlight. This cover is detachable to make room for additional cargo.

Using the cover



To extend the cover, pull the end of the cover out of the housing, then insert its hooks into the catches as shown. To rewind it, unhook it from the catches and it will rewind automatically. You should hold on to the cover and guide it back into the cover housing while it is rewinding.

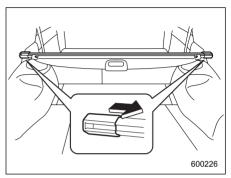
Do not place anything on the extended cover. Putting excessive weight on the extended cover can break it and an object on the cover could tumble forward in the event of a sudden stop or collision. This could cause serious injury.

Be careful not to scratch the rear gas struts while extending and rewinding the cover.

Scratches on the struts could cause leakage of gas from the struts, which may result in their inability to hold the rear liftgate open.

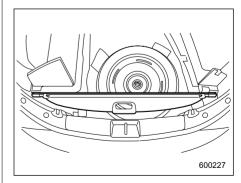
■ To remove the cover

1. Rewind the cover.



Pull either sleeve on the end of the cover housing to shorten the cover's length.
 Take it off the retainer.

■ Stowage of the cover



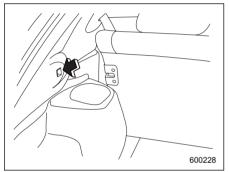
- CONTINUED -

6-10 Interior equipment

The cargo area cover can be stowed under the cargo floor.

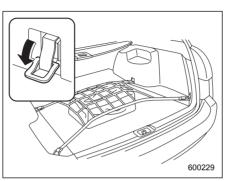
■ To install the cover housing

1. Pull either sleeve on the end of the cover housing to shorten the cover's length.



2. Insert the projections located on the both ends of the sleeve into the recesses of the retainers.

Cargo tie-down hooks



The cargo area is equipped with four tiedown hooks so that cargo can be secured with a cargo net or ropes.

When using the tie-down hooks, turn them down out of the storing recesses. When not in use, put the hooks up into the storing recesses.

The cargo tie-down hooks are designed only for securing light cargo. Never try to secure cargo that exceeds the capacity of the hooks. The maximum load capacity is 44 lbs (20 kg) per hook.

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Fuel

Use of a fuel which is low in quality or use of an inappropriate fuel additive may cause engine damage.

Fuel requirements

▼ 2.5-liter non-turbo models

The 2.5-liter non-turbo engine is designed to operate using unleaded gasoline with an octane rating of 87 AKI or higher.

▼ 2.5-liter turbo models *

The 2.5-liter turbo engine is designed to operate using premium unleaded gasoline with an octane rating of 91 AKI or higher. If premium unleaded gasoline is not available, regular unleaded gasoline with an octane rating of 87 AKI or higher may be temporarily used. For optimum engine performance and driveability, it is required that you use premium grade unleaded gasoline.

NOTE

Be sure to use premium unleaded gasoline of 91 AKI or higher for a 2.5-liter turbo engine model. If other gasoline (lower than 91 AKI) is used, knocking, reduced output and poor accelerator response will result.

▼ Fuel octane rating

This octane rating is the average of the Research Octane and Motor Octane numbers and is commonly referred to as the Anti Knock Index (AKI).

Using a gasoline with a lower octane rating can cause persistent and heavy knocking, which can damage the engine. Do not be concerned if your vehicle sometimes knocks lightly when you drive up a hill or when you accelerate. See your dealer or a qualified service technician if you use a fuel with the specified octane rating and your vehicle knocks heavily or persistently.

▼ Unleaded gasoline

The neck of the fuel filler pipe is designed to accept only an unleaded gasoline filler nozzle. Under no circumstances should leaded gasoline be used because it will damage the emission control system and may impair driveability and fuel economy.

▼ Gasoline for California-certified LEV

Your vehicle was certified to California's low emission vehicle (LEV) standards as indicated on the underhood tune-up label, it is designed to optimize engine and emission performance with gasoline that meets the clean burning low-sulfur California gasoline specifications. If you live in any other state than California, your vehicle will operate on gasoline meeting Federal specifications. Gasoline sold outside California is permitted to have higher sulfur levels, which may affect the performance of your vehicle's catalytic converter and may produce a sulfur exhaust odor or smell. Saab recommends that you try a different brand of unleaded gasoline having lower sulfur to determine if the problem is fuel related before returning your vehicle to an authorized dealer for service.

▼ ММТ

Some gasoline contains an octane-enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl). If you use such fuels, your emission control system performance may deteriorate and the CHECK ENGINE warning light/Malfunction indicator lamp may turn on. If this happens, return to your authorized Saab Dealer for service. If it is determined that the condition is caused by the type of fuel used, repairs may not be covered by your warranty.

Gasoline for cleaner air

Your use of gasoline with detergent additives will help prevent deposits from forming in your engine and fuel system. This helps keep your engine in tune and your emission control system working properly, and is a way of doing your part for cleaner air. If you continuously use a high quality fuel with the proper detergent and other additives, you should never need to add any fuel system cleaning agents to your fuel tank.

Many gasolines are now blended with materials called oxygenates. Use of these fuels can also help keep the air cleaner. Oxygenated blend fuels, such as MTBE (Methyl Tertiary Butyl ether) or ethanol (ethyl or grain alcohol) may be used in your vehicle, but should contain no more than 15% MTBE or 10% ethanol for the proper operation of your Saab.

In addition, some gasoline suppliers are now producing reformulated gasolines, which are designed to reduce vehicle emissions. Saab approves the use of reformulated gasoline.

If you are not sure what the fuel contains, you should ask your service station operators if their gasolines contain detergents and oxygenates and if they have been reformulated to reduce vehicle emissions.

As additional guidance, only use fuels suited for your vehicle as explained in the following.

• Fuel should be unleaded and have an octane rating no lower than that specified in this manual.

• Methanol (methyl or wood alcohol) is sometimes mixed with unleaded gasoline. Methanol can be used in your vehicle **ONLY** if it does not exceed 5% of the fuel mixture **AND** if it is accompanied by sufficient quantities of the proper cosolvents and corrosion inhibitors required to prevent damage to the fuel system. Do not use fuel containing methanol **EXCEPT** under these conditions.

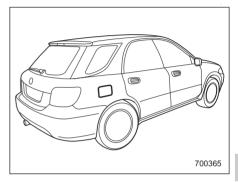
• If undesirable driveability problems are experienced and you suspect they may be fuel related, try a different brand of gasoline before seeking service at your Saab dealer.

• Fuel system damage or driveability problems which result from the use of improper fuel are not covered under the Saab Limited Warranty.

Do not let fuel spill on the exterior surfaces of the vehicle. Fuels containing alcohol may cause paint damage, which is not covered under the Saab Limited Warranty.

Fuel filler lid and cap

▼ Refueling

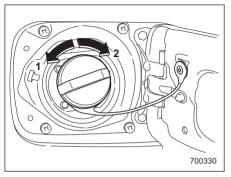




1. To open the fuel filler lid, pull the lid release lever. The lever is on the floor at the left of the driver's seat.

- CONTINUED -

7-4 Starting and operating



1) Open

2) Close

2. Remove the fuel filler cap by turning it slowly counterclockwise.

 Gasoline vapor is highly flammable. Before refueling, always first stop the engine and make sure that there are no lighted cigarettes, open flames or electrical sparks in the adjacent area. • When opening the cap, do not remove the cap quickly. Fuel may be under pressure and spray out of the fuel filler neck especially in hot weather, which may cause injury.

3. Stop filling the tank after the fuel filler pump automatically stops. Do not add any more fuel.

4. Put the cap back on, turn it clockwise until you hear a clicking noise. Be certain not to catch the tether under the cap while tightening.

5. Close the fuel filler lid completely. If you spill any fuel on the painted surface,

rinse it off immediately. Otherwise, the painted surface could be damaged.

NOTE

If the fuel filler cap is not tightened until it clicks or if the tether is caught under the cap, the CHECK ENGINE warning light may come on. Refer to the "Warning and indicator lights" section located in chapter 3.

(Turbo model only) Promptly put fuel in the tank whenever the low fuel warning light comes on. Engine misfires as a result of an empty tank could cause damage to the engine.

- Never add any cleaning agents to the fuel tank. The addition of a cleaning agent may cause damage to the fuel system.
- Make sure that the cap is tightened until it clicks to prevent fuel spillage in the event of an accident.
- Do not let fuel spill on the exterior surfaces of the vehicle.

Fuels may cause paint damage, which is not covered under the Saab Limited Warranty.

 Always use a genuine Saab fuel filler cap. If you use the wrong cap, it may not fit or have proper venting, and your fuel tank and emission control system might be damaged.

State emission testing (U.S. only)/Canadian Provincial Emission Testing

At state inspection time, remember to tell your inspection or service station in advance not to place your Saab AWD vehicle on a two-wheel dynamometer. Otherwise, serious transmission damage will result.

Some states/provinces have started using dynamometers in their state inspection programs in order to meet their obligation under federal law to implement stricter vehicle emission standards to reduce air pollution from vehicles. A dynamometer is a treadmill or roller-like testing device that allows your vehicle's wheels to turn while the vehicle remains in one place. Depending on the severity of a state's air pollution problems, the states must adopt either a "basic" or "enhanced" vehicle emission inspection test. Normally, a portion of the basic emission test consists of an emission inspector inserting an analyzer probe into the exhaust pipe of an idling vehicle for a short period of time. States with more severe air pollution problems are required to adopt an enhanced vehicle emission test. This test simulates actual driving conditions on a dynamometer and permits more accurate measurement of tailpipe emitted pollution than the basic emission test.

The U.S. Environmental Protection Agency (EPA) and states using two-wheel dynamometers in their emission testing programs have **EXEMPTED** Saab AWD vehicles from the portion of the testing program that involves a two-wheel dynamometer.

There are some states that use four-wheel dynamometers in their testing programs. When properly used, that equipment will not damage an AWD Saab vehicle.

Under no circumstances should the rear wheels be jacked off the ground, nor should the driveshaft be disconnected for state emission testing.

Testing of an All-Wheel Drive vehicle must NEVER be performed on a single two-wheel dynamometer. Attempting to do so will result in uncontrolled vehicle movement and may cause an accident or injuries to persons nearby.

Resultant vehicle damage due to improper testing is not covered under the Saab Limited Warranty and is the responsibility of the state inspection program or its contractors or licensees.

The EPA has issued regulations for inspecting the On-Board Diagnostic (OBD) system as part of the state emissions inspection. The OBD system is designed to detect engine and transmission problems that might cause vehicle emissions to exceed allowable limits. These inspections apply to all 1996 model year and newer passenger cars and light trucks. Over 30 states plus the District of Columbia have implemented the OBD system inspection.

• The inspection of the OBD system consists of a visual operational check of the "CHECK ENGINE" warning light/malfunction indicator lamp (MIL) and an examination of the OBD system with an electronic scan tool while the engine is running.

• A vehicle <u>passes</u> the OBD system inspection if proper the "CHECK ENGINE" warning light/MIL illumination is observed, there is **no** stored diagnostic trouble codes, and the OBD system readiness monitors are complete.

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• A vehicle <u>fails</u> the OBD inspection if the "CHECK ENGINE" warning light/MIL is not properly operating or there is one or more diagnostic trouble codes stored in vehicle's computer with the "CHECK EN-GINE" warning light/MIL illuminated.

• A state emission inspection may reject (not pass or fail) a vehicle if the number of OBD system readiness monitors "**Not Ready**" is greater than one. Under this condition, the vehicle operator should be instructed to drive his/her vehicle for a few days to set the monitors and return for an emission re-inspection.

• Owners of rejected or failing vehicles should contact their Saab Dealer for service.

Preparing to drive

You should perform the following checks and adjustments every day before you start driving.

1. Check that all windows, mirrors, and lights are clean and unobstructed.

2. Check the appearance and condition of the tires. Also check tires for proper inflation.

3. Look under the vehicle for any sign of leaks.

4. Check that the hood, trunk and rear liftgate are fully closed.

5. Check the adjustment of the seat.

6. Check the adjustment of the inside and outside mirrors.

7. Fasten your seatbelt. Check that your passengers have fastened their seatbelts.

8. Check the operation of the warning and indicator lights when the ignition switch is turned to the "ON" position.

9. Check the gauges, indicator and warning lights after starting the engine.

NOTE

Engine oil, engine coolant, brake fluid, washer fluid and other fluid levels should be checked daily, weekly or at fuel stops.

Starting the engine

Do not operate the starter motor continuously for more than ten seconds. If the engine fails to start after operating the starter for five to ten seconds, wait for ten seconds or more before trying again.

Manual transmission vehicle

1. Apply the parking brake.

2. Turn off unnecessary lights and accessories.

3. Press the clutch pedal to the floor and shift the shift lever into neutral. Hold the clutch pedal to the floor while starting the engine.

The starter motor will only operate when the clutch pedal is pressed fully to the floor.

4. Turn the ignition switch to the "ON" position and check the operation of the warning and indicator lights. Refer to the "Warning and indicator lights" section (chapter 3).

5. Turn the ignition switch to the "START" position **without** depressing the accelerator pedal. Release the key immediately after the engine has started.

If the engine does not start, try the following.

1) Turn the ignition switch to the "OFF" position and wait for at least 10 seconds. After checking that the parking brake is firmly set, turn the ignition switch to the "START" position while depressing the accelerator pedal slightly (about a quarter of the full stroke). Release the accelerator pedal as soon as the engine starts.

2) If this fails to start the engine, turn the ignition switch back to the "OFF" position and wait for at least 10 seconds. Then fully depress the accelerator pedal and turn the ignition switch to the "START" position. If the engine starts, quickly release the accelerator pedal.

3) If this fails to start the engine, turn the ignition switch again to the "OFF" position. After waiting for 10 seconds or longer, turn the ignition switch to the "START" position without depressing the accelerator pedal.

4) If the engine still refuses to start, contact your nearest Saab dealer for assistance.

6. Confirm that all warning and indicator lights have gone off after the engine has started. The fuel injection system automatically lowers the idle speed as the engine warms up.

NOTE

The engine may be difficult to start when the battery has been disconnected and reconnected (for maintenance or other purposes). This difficulty is caused by the electronically controlled throttle's self-diagnosis function. To overcome it, keep the ignition switch in the "ON" position for approximately 10 seconds before starting the engine.

Automatic transmission vehicle

1. Apply the parking brake.

2. Turn off unnecessary lights and accessories.

3. Shift the selector lever to the "P" or "N" position (preferably "P" position).

The starter motor will only operate when the select lever is at the "P" or "N" position.

4. Turn the ignition switch to the "ON" position and check the operation of the warning and indicator lights. Refer to the "Warning and indicator lights" section (chapter 3).

5. Turn the ignition switch to the "START" position **without** depressing the accelerator pedal. Release the key immediately after the engine has started.

If the engine does not start, try the following. 1) Turn the ignition switch to the "OFF" position and wait for at least 10 seconds. After checking that the parking brake is firmly set, turn the ignition switch to the "START" position while depressing the accelerator pedal slightly (about a quarter of the full stroke). Release the accelerator pedal as soon as the engine starts.

2) If this fails to start the engine, turn the ignition switch back to the "OFF" position and wait for at least 10 seconds. Then fully depress the accelerator pedal and turn the ignition switch to the "START" position. If the engine starts, quickly release the accelerator pedal.

3) If this fails to start the engine, turn the ignition switch again to the "OFF" position. After waiting for 10 seconds or longer, turn the ignition switch to the "START" position without depressing the accelerator pedal.

4) If the engine still refuses to start, contact your nearest Saab dealer for assistance.

6. Confirm that all warning and indicator lights have gone out after the engine has started. The fuel injection system automatically lowers the idle speed as the engine warms up.

While the engine is warming up, make sure that the selector lever is at the "P" or

"N" position and that the parking brake is applied.

NOTE

The engine may be difficult to start when the battery has been disconnected and reconnected (for maintenance or other purposes). This difficulty is caused by the electronically controlled throttle's self-diagnosis function. To overcome it, keep the ignition switch in the "ON" position for approximately 10 seconds before starting the engine.

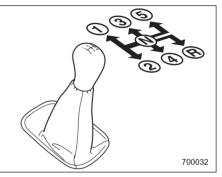
If you restart the engine while the vehicle is moving, shift the selector lever into the "N" position. Do not attempt to place the selector lever of a moving vehicle into the "P" position.

Stopping the engine

The ignition switch should be turned off only when the vehicle is stopped and the engine is idling.

Do not stop the engine when the vehicle is moving. This will cause loss of power to the power steering and the brake booster, making steering and braking more difficult. It could also result in accidental activation of the "LOCK" position on the ignition switch, causing the steering wheel to lock.

Manual transmission – 5 speeds



The manual transmission is a fully synchromeshed, 5-forward-speed and 1-reverse-speed transmission.

The shift pattern is shown on the shift lever knob. When shifting from 5th gear to reverse gear, first return the shift lever to the neutral position then shift into reverse gear.

To change gears, fully depress the clutch pedal, move the shift lever, and gradually let up on the clutch pedal.

If it is difficult to shift into gear, put the transmission in neutral, release the clutch pedal momentarily, and then try again.

Do not drive the vehicle with the clutch disengaged (i.e., when the clutch pedal is depressed) or with the shift lever in the neutral position. Engine braking has no effect in either of these conditions and the risk of an accident is consequently increased.

Shift into reverse ONLY when the vehicle has completely stopped. It may cause damage to the transmission to try shifting into reverse when the vehicle is moving.

Shifting speeds

Recommended shifting speeds

The best compromise between fuel economy and vehicle performance during normal driving is ensured by shifting up at the speeds listed in the following table.

Shift up	mph (km/h)
1st to 2nd	15 (24)
2nd to 3rd	25 (40)
3rd to 4th	40 (65)
4th to 5th	45 (73)

▼ Maximum allowable speeds

The following table shows the maximum speeds that are possible with each different gear.

Never exceed the speed limit listed in the following table for each gear position except for brief acceleration in an emergency. The tachometer's needle will enter the red area if these speeds are exceeded. Failure to observe this precaution can lead to excessive engine wear and poor fuel economy.

Non-turbo models

	mph (km/h)
1st	31 (50)
2nd	52 (84)
3rd	76 (120)

Turbo_mod	lels mph (km/h)
1st	34 (54)
2nd	59 (95)
3rd	85 (136)

When shifting down a gear, ensure that the vehicle is not travelling at a speed exceeding the Maximum Allowable Speed for the gear which is about to be selected. Failure to observe this precaution can lead to engine over-revving and this in turn can result in engine damage.

In addition, sudden application of engine brakes when the vehicle is travelling on a slippery surface can lead to wheel locking; as a consequence, control of the vehicle may be lost and the risk of an accident increased.

Driving tips

Do not drive with your foot resting on the clutch pedal and do not use the clutch to hold your vehicle at a standstill on an up-

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grade. Either of those actions may cause clutch damage.

Do not drive with your hand resting on the shift lever. This may cause wear on the transmission components.

When it is necessary to reduce vehicle speed due to slow traffic, turning corners, or driving up steep hills, downshift to a lower gear before the engine starts to labor.

On steep downgrades, downshift the transmission to 4th, 3rd or 2nd gear as necessary; this helps to maintain a safe speed and to extend brake pad life. In this way, the engine provides a braking effect. Remember, if you "ride" (over use) the brakes while descending a hill, they may overheat and not work properly.

The engine may, on rare occasions, knock when the vehicle rapidly accelerates or rapidly pulls away from a standstill. This phenomenon is not an indication of a problem in your vehicle.

Automatic transmission

The automatic transmission is electronically controlled and provides 4 forward speeds and 1 reverse speed.

NOTE

• When the engine coolant temperature is still low, your vehicle's automatic transmission will up-shift at higher engine speeds than when the coolant temperature is sufficiently high in order to shorten the warm-up time and improve driveability. The gearshift timing will automatically shift to the normal timing after the engine has warmed up.

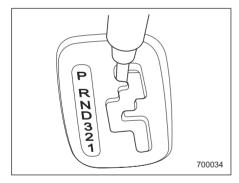
• Immediately after ATF (automatic transmission fluid) is replaced, you may feel that the automatic transmission operation is somewhat unusual. This results from invalidation of data the on-board computer has collected and stored in memory to allow the transmission to shift at the most appropriate times for the current condition of your vehicle. Optimized shifting will be restored as the vehicle continues to be driven for a while.

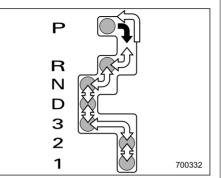
Do not shift from the "P" or "N" position into the "D", "3", "2", "1" or "R" position while depressing the accelerator pedal. This may cause the vehicle to jump forward or backward.

- Shift into the "P" or "R" position only after the vehicle is completely stopped. Shifting while the vehicle is moving may cause damage to the transmission.
- Do not race the engine for more than five seconds in any position except the "N" or "P" position when the brake is set or when chocks are used in the wheels. This may cause the automatic transmission fluid to overheat.
- Avoid shifting from one of the forward driving positions into the "R" position or vice versa until the vehicle has completely stopped. Such shifting may cause damage to the transmission.

 When parking the vehicle, first securely apply the parking brake and then place the selector lever in the "P" position. Avoid parking for a long time with the selector lever in any other position as doing so could result in a dead battery.

Selector lever for automatic transmission





 With the brake pedal depressed, move the lever along the gate.
 Move the lever along the gate.

> : Move the lever along the gate.

The selector lever has seven positions.

▼ P (Park)

This position is for parking the vehicle and starting the engine.

In this position, the transmission is mechanically locked to prevent the vehicle from rolling freely.

When you park the vehicle, first set the parking brake fully, then shift into the "P" position. Do not hold the vehicle with only the transmission.

A shift interlock function is employed in the automatic transmission system to en-

sure safe starting of the vehicle.

To shift the selector lever from the "P" to the any other position, you have to depress the brake pedal fully when the ignition switch is in the "ON" position. This prevents the vehicle from lurching when it is started.

If the shift lever does not move from the "P" position with the brake pedal depressed, refer to the "Shift lock release" section in this chapter.

▼ R (Reverse)

This position is for backing the vehicle.

To shift from the "N" to "R" position, first stop the vehicle completely then move the lever to the "R" position.

▼ N (Neutral)

This position is for restarting a stalled engine.

In this position the wheels and transmission are not locked. In this position, the transmission is neutral; the vehicle will roll freely, even on the slightest incline unless the parking brake or foot brake is on.

Avoid coasting with the transmission neutral.

During coasting, there is no engine braking effect.

NOTE

If you stop the engine with the selector lever in the "N" position, move the selector lever to the "P" position immediately. Otherwise, you may find that the selector lever soon cannot be moved to the "P" position. If you find that the selector lever cannot be moved from the "N" position to the "P" position, turn the ignition switch to the "ON" position and try again.

Do not drive the vehicle with the selector lever in the "N" (neutral) position. Engine braking has no effect in this condition and the risk of an accident is consequently increased.

▼ D (Drive)

This position is for normal driving. The transmission automatically shifts into a suitable gear from 1st to 4th according to the vehicle speed and the acceleration you require.

When more acceleration is required in this position, press the accelerator pedal fully to the floor and hold that position. The transmission will automatically downshift to 3rd, 2nd or 1st gear. When you release

the pedal, the transmission will return to the original gear position.

∇ While climbing a grade

When driving up hill, undesired upshift to 4th gear is prevented from taking place when the accelerator pedal is released. This minimizes the chances of subsequent downshifting to a lower gear when accelerating again. This prevents repeated upshifting and downshifting resulting in a smoother operation of the vehicle.

NOTE

The transmission may downshift to 2nd or 1st gear, depending on the way the accelerator pedal is pressed to accelerate the vehicle again.

∇ While going down a hill

When descending a steep hill, depressing the brake pedal will cause the transmission to downshift to 3rd gear, thus applying engine braking. Reacceleration for a short time will cause the transmission to upshift normally.

NOTE

In some cases, depressing the brake pedal on a downhill grade does not result in an automatic downshift to 3rd gear. This can happen when the automatic transmission fluid temperature is very low, for example, during driving shortly after the vehicle has been parked for an extended period of time. When the ATF temperature has risen to a certain level, automatic downshift normally takes place. In the meantime, downshift manually for engine braking as required.

▼ 3 (Third)

This position is for using engine braking when going down a hill or for climbing a grade.

The transmission automatically shifts into a suitable gear from 1st to 3rd according to the vehicle speed and the acceleration you require.

When more acceleration is required in this position, press the accelerator pedal fully to the floor and hold that position. The transmission will automatically downshift to 2nd or 1st gear. When you release the pedal, the transmission will return to the original gear position.

▼ 2 (Second)

This position is for using engine braking when going down a hill or for climbing a steep grade.

In this position, the transmission holds in the 2nd gear.

Use this position when starting off from a

standstill on slippery road surfaces such as mud or snow. It will ensure greater traction.

▼ 1 (First)

This position is for driving up or down very steep grades, or driving through mud or sand, or on slippery surfaces. In this position, the transmission holds in the 1st gear.

▼ Maximum speeds

The following tables show the maximum speeds that are possible with each different gear.

When shifting down a gear, it is important to confirm that the current vehicle speed is not in excess of the Maximum Allowable Speed of the gear which is about to be selected.

	mph (km/r	
	Non-turbo models	Turbo models
1	28 (45)	28 (45)
2	62 (100)	65 (104)
3	97 (156)	104 (167)

NOTE

In order to prevent over-revving during deceleration of the vehicle, the trans-

mission will remain in the current gear if the speed of the vehicle is in excess of the Maximum Allowable Speed for the gear to which the selector lever has been moved.

When shifting down a gear, ensure that the vehicle is not travelling at a speed exceeding the Maximum Allowable Speed for the gear which is about to be selected. Failure to observe this precaution can lead to engine over-revving and this in turn can result in engine damage.

In addition, sudden application of engine brakes when the vehicle is travelling on a slippery surface can lead to wheel locking; as a consequence, control of the vehicle may be lost and the risk of an accident increased.

▼ Driving tips

• Always apply the foot or parking brake when the vehicle is stopped in the "D", "3", "2", "1" or "R" position.

• Always set the parking brake when parking your vehicle. Do not hold the vehicle with only the transmission.

• Do not keep the vehicle in a stationary

position on an uphill grade by using the "D", "3", "2", or "1" position. Use the brake instead.

The engine may, on rare occasions, knock when the vehicle rapidly accelerates or rapidly pulls away from a standstill. This phenomenon is not an indication of a problem in your vehicle.

Shift lock release

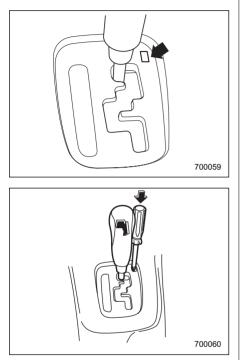
If the selector lever does not move from the "P" position with the brake pedal depressed and the ignition switch in the "ON" position, perform the following steps: To override the shift lock:

1. Set the parking brake and stop the engine.

2. Take out the screwdriver from the tool bag.

3. Remove the cover by prying on the edge with the screwdriver.

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4. Insert the screwdriver into the hole.

5. Push down on the screwdriver and move the selector lever from the "P" to the "N" position.

6. Remove the screwdriver from the hole. Depress the brake pedal and start the engine.

Take your vehicle to the nearest Saab dealer immediately to have the system repaired.

Limited slip differential (LSD) *

The LSD provides optimum distribution of power according to the difference in revolutions between the right and left wheels that may be caused by certain driving conditions, thereby improving driving stability on snow-covered, muddy or other slippery roads or when high speed driving.

- Never start the engine while a tire on one side is jacked up, as the vehicle may move.
- If one tire is spinning in mud, avoid continued spinning at high speed as this could adversely affect the LSD.
- If you use a temporary spare tire to replace a flat tire, be sure to use the original temporary spare tire stored in the vehicle. Using other sizes will adversely affect the LSD.

Power steering

The power steering system operates only when the engine is running.

If you lose power steering assist because the engine stops or the system fails to function, you can steer but it will take much more effort.

NOTE

Right after the engine has been started and before it has warmed up, you may hear a noise coming from areas adjacent to the power steering pump which is located at the right-front area of the engine compartment. This noise is normal. It does not indicate power steering system trouble.

Do not hold the steering wheel at the fully locked position left or right for more than five seconds. This may damage the power steering pump.

Braking

Braking tips

Never rest your foot on the brake pedal while driving. This can cause dangerous overheating of the brakes and needless wear on the brake pads and linings.

▼ When the brakes get wet

When driving in rain or after washing the vehicle, the brakes may get wet. As a result, brake stopping distance will be longer. To dry the brakes, drive the vehicle at a safe speed while lightly depressing the brake pedal to heat up the brakes.

▼ Use of engine braking

Remember to make use of engine braking in addition to foot braking. When descending a grade, if only the foot brake is used, the brakes may start working improperly because of brake fluid overheating, caused by overheated brake pads. To help prevent this, shift into a lower gear to get stronger engine braking.

Braking when a tire is punctured

Do not depress the brake pedal suddenly

when a tire is punctured. This could cause a loss of control of the vehicle. Keep driving straight ahead while gradually reducing speed. Then slowly pull off the road to a safe place.

Brake system

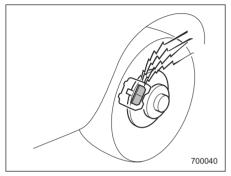
▼ Two separate circuits

Your vehicle has two separate circuit brake systems. Each circuit works diagonally across the vehicle. If one circuit of the brake system should fail, the other half of the system still works. If one circuit fails, the brake pedal will go down much closer to the floor than usual and you will need to press it down much harder. And a much longer distance will be needed to stop the vehicle.

▼ Brake booster

The brake booster uses engine manifold vacuum to assist braking force. Do not turn off the engine while driving because that will turn off the brake booster, resulting in poor braking power.

The brakes will continue to work even when the brake booster completely stops functioning. If this happens, however, you will have to push the pedal much harder than normal and the braking distance will increase. Disc brake pad wear warning indicators



The disc brake pad wear warning indicators on the disc brakes give a warning noise when the brake pads are worn. If a squeaking or scraping noise is heard from the disc brakes while braking, immediately have your vehicle checked by your Saab dealer.

ABS (Anti-lock Brake System)

The ABS system prevents the lock-up of wheels which may occur during sudden braking or braking on slippery road surfaces. This helps prevent the loss of steering control and directional stability caused by wheel lock-up.

When the ABS system is operating, you may hear a chattering noise or feel a slight vibration in the brake pedal. This is normal when the ABS operates.

The ABS system will not operate when the vehicle speed is below approximately 6 mph (10 km/h).

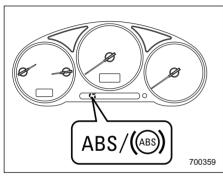
Always use the utmost care in driving – overconfidence because you are driving with an ABS equipped vehicle could easily lead to a serious accident.

- The ABS system does not always decrease stopping distance. You should always maintain a safe following distance from other vehicles.
- When driving on badly surfaced roads, gravel roads, icy roads, or over deep newly fallen snow, stopping distances may be longer for a vehicle with the ABS system than one without. When driving under these conditions, therefore, reduce your speed and leave ample distance from other vehicles.
- When you feel the ABS system operating, you should maintain constant brake pedal pressure. Do not pump the brake pedal since doing so may defeat the operation of the ABS system.

■ ABS system self-check

Just after the vehicle is started, you may feel on the brake pedal a vibration similar to when the ABS operates, and you may also hear the sound of the ABS working from the engine compartment. This is caused by an automatic functional test of the ABS system being carried out and does not indicate any abnormal condition.

■ ABS warning light



The ABS warning light comes on when the ignition switch is turned to the "ON" position and goes out after approximately two seconds.

This is an indication that the ABS system is working properly.

When driving with an insufficient battery voltage such as when the engine is jump started, the ABS warning light may come on. This is due to the low battery voltage and does not indicate a malfunction. When the battery becomes fully charged, the light will go out.

When the warning light is on, the ABS function shuts down; however, the conventional brake system continues to operate normally. If the warning light behaves as follows, the ABS system may not be working properly.

- The warning light does not come on when the ignition switch is turned to the "ON" position.
- The warning light comes on when the ignition switch is turned to the "ON" position, but it does not go out even when the vehicle speed exceeds approximately 8 mph (12 km/h).
- The warning light comes on during driving.

If these occur, have the ABS system repaired at the first available opportunity by your Saab dealer.

NOTE

If the warning light behavior is as described in the following, the ABS system may be considered normal.

• The warning light comes on right af-

ter the engine is started but goes out immediately, remaining off.

• The warning light remains on after the engine has been started, but it goes out when the vehicle speed reaches approximately 8 mph (12 km/h).

• The warning light comes on during driving, but it goes out immediately and remains off.

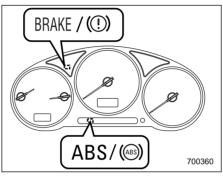
Electronic Brake Force Distribution (EBD) system

The EBD system maximizes the effectiveness of the brakes by allowing the rear brakes to supply a greater proportion of the braking force. It functions by adjusting the distribution of braking force to the rear wheels in accordance with the vehicle's loading condition and speed.

The EBD system is an integral part of the ABS system and uses some of the ABS system's components to perform its function of optimizing the distribution of braking force. If any of the ABS components used by the EBD function fails, the EBD system also stops working.

When the EBD system is operating, you may hear a chattering noise or feel a slight vibration in the brake pedal. This is normal and does not indicate a malfunction.

Steps to take if EBD system fails



If a malfunction occurs in the EBD system, the system stops working and the brake system warning light and ABS warning light come on simultaneously.

The EBD system may be faulty if the brake system warning light and ABS warning light illuminate simultaneously during driving.

Even if the EBD system fails, the conventional braking system will still function. However, the rear wheels will be more prone to locking when the brakes are applied harder than usual and the vehicle's motion may therefore become somewhat harder to control.

If the brake system warning light and ABS

warning light illuminate simultaneously, take the following steps:

1. Stop the vehicle in the nearest safe, flat place.

2. Shut down the engine, then restart it.

3. Release the parking brake. If both warning lights go out, the EBD system may be faulty. Drive carefully to the nearest Saab dealer and have the system inspected.

4. If both warning lights come on again and stay illuminated after the engine has been restarted, shut down the engine again, apply the parking brake, and check the brake fluid level.

5. If the brake fluid level is not below the "MIN" mark, the EBD system may be faulty. Drive carefully to the nearest Saab dealer and have the system inspected.

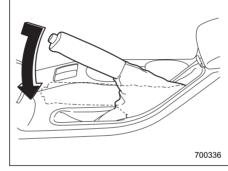
6. If the brake fluid level is below the "MIN" mark, DO NOT drive the vehicle. Instead, have the vehicle towed to the nearest Saab dealer for repair.

- Driving with the brake system warning light on is dangerous. This indicates your brake system may not be working properly. If the light remains on, have the brakes inspected by a Saab dealer immediately.
- If at all in doubt about whether the brakes are operating properly, do not drive the vehicle. Have your vehicle towed to the nearest Saab dealer for repair.

Parking your vehicle

■ Parking brake

To set the parking brake, press the brake pedal firmly and hold it down while fully pulling up the parking brake lever.



To release the parking brake, pull the lever up slightly, press the release button, then lower the lever while keeping the button pressed.

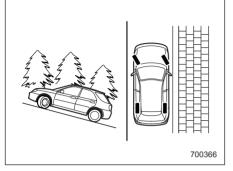
When the parking brake is set while the engine is running, the parking brake warning light comes on. After starting the vehicle, be sure that the warning light has gone out before the vehicle is driven. Refer to the "Warning and indicator lights" section (chapter 3).

Never drive while the parking brake is set because this will cause unnecessary wear on the brake linings. Before starting to drive, always make sure that the parking brake has been fully released.

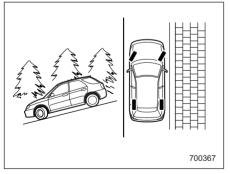
Parking tips

When parking your vehicle, always set the parking brake firmly and put the shift lever in the "1" (1st) for an upgrade or "R" (Reverse) for a downgrade for manual transmission vehicles, or in the "P" (Park) position for automatic transmission vehicles. Always set the parking brake firmly when parking your vehicle. Never rely on the transmission alone to hold the vehicle.

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When parking on a hill, always turn the steering wheel. When the vehicle is headed up the hill, the front wheels should be turned away from the curb.



When facing downhill, the front wheels should be turned into the curb.

- Never leave unattended children or pets in the vehicle. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot or sunny days, the temperature in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people.
- Do not park the vehicle over flammable materials such as dry grass, waste paper or rags, as they may burn easily if they come near hot engine or exhaust system parts.
- Be sure to stop the engine if you take a nap in the vehicle. If engine exhaust gas enters the passenger compartment, occupants in the vehicle could die from carbon monoxide (CO) contained in the exhaust gas.

If your vehicle has a front underspoiler and rear underspoiler (both optional), pay attention to blocks and other obstructions on the ground when parking. The underspoilers could be damaged by contact with them.

Cruise control

Cruise control enables you to maintain a constant vehicle speed without holding your foot on the accelerator pedal and it is operative when the vehicle speed is 25 mph (40 km/h) or more. Make sure the main switch is turned "OFF" when the cruise control is not in use to avoid unintentionally setting the cruise control.

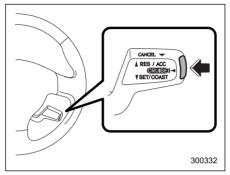
NOTE

If you move the cruise control lever or press the main switch button while turning the ignition switch "ON", the cruise control function is deactivated and the "CRUISE" indicator light flashes. To reactivate the cruise control function, turn the ignition switch back to the "ACC" or "LOCK" position, and then turn it again to the "ON" position.

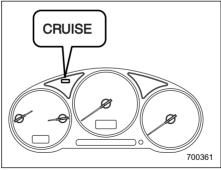
Do not use the cruise control under any of the following conditions. This may cause loss of vehicle control:

- driving up or down a steep grade
- driving in the rain or on slippery or winding roads
- driving in heavy traffic

To set cruise control



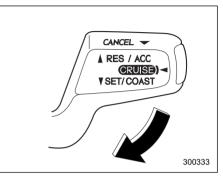
1. Push the main switch button.



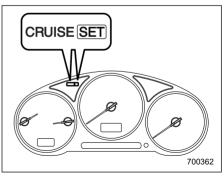
The " $\ \mbox{CRUISE}$ " indicator light on the instrument cluster will come on.

2. Depress the accelerator pedal until the

vehicle reaches the desired speed.



3. Push the control lever downward in the "SET/COAST" direction and release it. Then release the accelerator pedal.



At this time, the " (SET) " indicator light is illuminated in the instrument cluster.

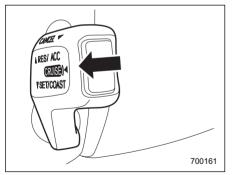
7-22 Starting and operating

The vehicle will maintain the desired speed.

Vehicle speed can be temporarily increased while driving with the cruise control activated. Simply depress the accelerator pedal to accelerate the vehicle. When the accelerator pedal is released, the vehicle will return to and maintain the previous cruising speed.

■ To temporarily cancel the cruise control

There are five ways to cancel the cruise control temporarily:



- Pull the control lever in the "CANCEL" direction.
- Depress the brake pedal.

- Depress the clutch pedal (manual transmission vehicles only).
- Shift the selector lever into the "N" position (automatic transmission vehicles only).

• Shift the shift lever into neutral (manual transmission vehicles only).

The "<u>SET</u>" indicator light in the instrument cluster goes off when the cruise control is cancelled.

To resume the cruise control after it has been temporarily canceled and with vehicle speed of approximately 20 mph (32 km/h) or more, push the control lever upward in the "RES/ACC" direction to return to the original cruising speed automatically.

The "<u>SET</u>" indicator light in the instrument cluster will automatically come on at this time.

■ To turn off the cruise control

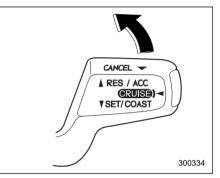
There are two ways to turn off the cruise control:

• Push the main switch again.

• Turn the ignition switch to the "ACC" or "LOCK" position (but only when the vehicle is completely stopped).

■ To change the cruising speed

 To increase the speed (by control lever)



Push the control lever upward in the "RES/ACC" direction and hold it until the vehicle reaches the desired speed. Then, release the control lever. The vehicle speed at that moment will be memorized and treated as the new set speed.

When the difference between the actual vehicle speed and the set speed is less than 4 mph (6.8 km/h), the set speed can be increased 1 mph (1.6 km/h) each time by pressing the control lever upward in the "RES/ACC" direction quickly.

▼ To increase the speed (by accelerator pedal)

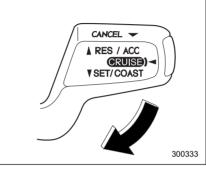
Depress the accelerator pedal to accelerate the vehicle to the desired speed.
 Push the control lever downward in the

"SET/COAST" direction once. Now the desired speed is set and the vehicle will keep running at that speed without depressing the accelerator pedal.

NOTE

If the difference between the actual vehicle speed when the control lever is pushed downward and the speed last time you set it is less than 4 mph (6.8 km/h), the vehicle speed will be lowered by 1 mph (1.6 km/h). This occurs because the cruise control system unit regards this lever operation as that intended to decrease the vehicle speed.

▼ To decrease the speed (by control lever)



Push the control lever downward in the "SET/COAST" direction and hold it until the vehicle reaches the desired speed. Then, release the control lever. The vehicle speed at that moment will be memorized and treated as the new set speed.

When the difference between the actual vehicle speed and the set speed is less than 4 mph (6.8 km/h), the set speed can be lowered 1 mph (1.6 km/h) each time by pressing the control lever downward in the "SET/COAST" direction quickly.

▼ To decrease the speed (by brake pedal)

1. Depress the brake pedal to release cruise control temporarily.

2. When the speed decreases to the desired speed, press the control lever downward in the "SET/COAST" direction once. Now the desired speed is set and the vehicle will keep running at that speed without depressing the accelerator pedal.

______ ______ ______ ______ ______ ______

Driving tips

8

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

New vehicle break-in driving – the first 1,000 miles (1,600 km)

The performance and long life of your vehicle are dependent on how you handle and care for your vehicle while it is new. Follow these instructions during the first 1,000 miles (1,600 km):

• Do not race the engine. And do not allow engine speed to exceed 4,000 rpm except in an emergency.

• Do not drive at one constant engine or vehicle speed for a long time, either fast or slow.

• Avoid starting suddenly and rapid acceleration, except in an emergency.

• Avoid hard braking, except in an emergency.

The same break-in procedures should be applied to an overhauled engine, newly mounted engine or when brake pads or brake linings are replaced with new ones.

Fuel economy hints

The following suggestions will help to save your fuel.

• Select the proper gear position for the speed and road conditions.

• Avoid sudden acceleration or deceleration. Always accelerate gently until you reach the desired speed. Then try to maintain that speed for as long as possible.

• Do not pump the accelerator and avoid racing the engine.

- Avoid unnecessary engine idling.
- Keep the engine properly tuned.

• Keep the tires inflated to the correct pressure shown on the tire label, which is located under the door latch on the driver's side. Low pressure will increase tire wear and fuel consumption.

• Use the air conditioner only when necessary.

• Keep the front and rear wheels in proper alignment.

• Avoid carrying unnecessary luggage or cargo.

Engine exhaust gas (Carbon monoxide)

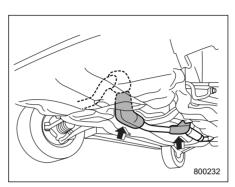
- Never inhale engine exhaust gas. Engine exhaust gas contains carbon monoxide, a colorless and odorless gas which is dangerous, or even lethal, if inhaled.
- Always properly maintain the engine exhaust system to prevent engine exhaust gas from entering the vehicle.
- Never run the engine in a closed space, such as a garage, except for the brief time needed to drive the vehicle in or out of it.
- Avoid remaining in a parked vehicle for a lengthy time while the engine is running. If that is unavoidable, then use the ventilation fan to force fresh air into the vehicle.
- Always keep the front ventilation inlet grille free from snow, leaves or other obstructions to ensure that the ventilation system always works properly.

- If at any time you suspect that exhaust fumes are entering the vehicle, have the problem checked and corrected as soon as possible. If you must drive under these conditions, drive only with all windows fully open.
- Keep the trunk lid or rear liftgate closed while driving to prevent exhaust gas from entering the vehicle.

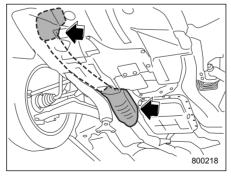
NOTE

Due to the expansion and contraction of the metals used in the manufacture of the exhaust system, you may hear a crackling sound coming from the exhaust system for a short time after the engine has been shut off. This sound is normal.

Catalytic converter



Turbo models



Non-turbo models

The catalytic converter is installed in the exhaust system. It serves as catalyst to reduce HC, CO and NOx in exhaust gases, thus providing cleaner exhaust.

To avoid damage to the catalytic converter:

• Use only unleaded fuel. Even a small amount of leaded fuel will damage the catalytic converter.

• Never start the engine by pushing or pulling the vehicle.

- Avoid racing the engine.
- Never turn off the ignition switch while the vehicle is moving.

• Keep your engine tuned-up. If you feel the engine running rough (misfiring, back-firing or incomplete combustion), have your vehicle checked and repaired by an authorized Saab dealer.

• Do not apply undercoating or rust prevention treatment to the heat shield of catalytic converter and the exhaust system.

• Avoid fire hazards. Do not drive or park the vehicle anywhere near flammable materials (e.g. grass, paper, rags or leaves), because the catalytic converter operates at very high temperatures.

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• Keep everyone and flammable materials away from the exhaust pipe while the engine is running. The exhaust gas is very hot.

Periodic inspections

To keep your vehicle in the best condition at all times, always have the recommended maintenance services listed in the maintenance schedule in the "Saab Warranty and Service Record Booklet" performed at the specified time or mileage intervals.

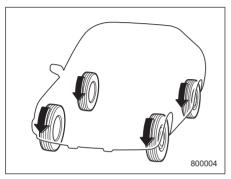
Driving in foreign countries

When planning to use your vehicle in another country:

• Confirm the availability of the correct fuel. (Refer to the "Fuel requirements" section in chapter 7.)

• Comply with all regulations and requirements of each country.

Driving tips for AWD vehicles



All-Wheel Drive distributes the engine power to all four wheels. AWD vehicles provide better traction when driving on slippery, wet or snow-covered roads and when moving out of mud, dirt and sand. By shifting power between the front and rear wheels, AWD can also provide added traction during acceleration and added engine braking force during deceleration.

Therefore, your Saab AWD vehicle may handle differently than an ordinary two wheel drive vehicle and it contains some features unique to AWD. For safety purposes as well as to avoid damaging the AWD system, you should keep the following tips in mind: • An AWD vehicle is better able to climb steeper roads under snowy or slippery conditions than a two wheel drive vehicle. There is little difference in handling, however, during extremely sharp turns or sudden braking. Therefore, when driving down a slope or turning corners, be sure to reduce your speed and maintain an ample distance from other vehicles.

• When replacing a tire, make sure you use only the same size, construction, brand, and load range as the original tires listed on the tire label. Using other sizes, circumference or construction may result in severe mechanical damage to the drive train of your vehicle and may affect ride, handling, braking, speedometer/odometer calibration, and clearance between the body and tires. It also may be dangerous and lead to loss of vehicle control.

• If you use a temporary spare tire to replace a flat tire, be sure to use the original temporary spare tire stored in the vehicle. Using other sizes may result in severe mechanical damage to the drive train of your vehicle.

• Always check the cold tire pressure before starting to drive. The recommended tire pressure is provided on the tire label, which is located under the door latch on the driver's side on U.S. vehicles or in the glovebox on Canadian vehicles.

- Tire chains should always be placed on the front wheels only.
- There are some precautions that you must observe when towing your vehicle. For detail information, see the "Towing" section in chapter 9.

WARNING

- Always maintain a safe driving speed according to the road and weather conditions in order to avoid having an accident on a sharp turn, during sudden braking or under other similar conditions.
- Always use the utmost care in driving – overconfidence because you are driving an All-Wheel Drive vehicle could easily lead to a serious accident.

Off road driving

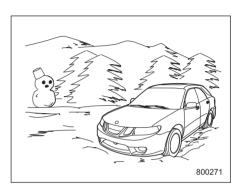
- Always maintain a safe driving speed according to the road and weather conditions in order to avoid having an accident on a sharp turn, during sudden braking or under other similar conditions.
- Always use the utmost care in driving – overconfidence because you are driving an All-Wheel Drive vehicle could easily lead to a serious accident.

Do not drive on rough roads or over curbs in a vehicle that has 17-inch or other ultra-low-profile tires. The wheels and tires could be damaged by shock forces, leading to abnormal vibration or poor straight-line tracking. Driving would then be more difficult.

Your AWD vehicle is neither a conventional off-road vehicle nor an all terrain vehicle. It is a passenger car designed primarily for on-road use. The AWD feature gives it some limited off-road capabilities in situations in which driving surfaces are relatively level, obstruction-free and otherwise similar to on-road driving conditions. Operating it under other than those conditions could subject the vehicle to excessive stress which might result in damage not eligible for repair under warranty. If you do take your Saab 9-2X off road, you should review the common sense precautions in the next section for general guidance.

Never attempt to drive through pools and puddles, or roads flooded with water. Water entering the engine air intake or the exhaust pipe or water splashing onto electrical parts may damage your vehicle and may cause it to stall.

Winter driving



Operation during cold weather

Carry some emergency equipment, such as tire chains, a window scraper, a bag of sand, flares, a small shovel, and jumper cables.

Check the battery and cables. Cold temperatures reduce battery capacity. The battery must be in good condition to provide enough power for cold winter starts.

Use an engine oil of proper grade and viscosity for cold weather. Heavy summer oil will cause harder starting. Keep the door locks from freezing by squirting them with deicer or glycerin.

Forcing a frozen door open may damage or separate the rubber weather strips around the door. If the door is frozen, use hot water to melt the ice, and afterwards thoroughly wipe the water away.

Use a windshield washer fluid that contains an antifreeze solution. Do not use engine antifreeze or other substitutes because they may damage the paint of the vehicle.

▼ Before driving your vehicle

Before entering the vehicle, remove any snow or ice from your shoes because that could make the pedals slippery and dangerous.

While warming up the vehicle before driving, check that the accelerator pedal, brake pedal, and all other controls operate smoothly.

Clear away ice and snow that has accumulated under the fenders to avoid making steering difficult. During severe winter driving, stop when and where it is safe to do so and check under the fenders periodically.

▼ Parking in cold weather

Do not use the parking brake when parking for long periods in cold weather since it could freeze in that position. Instead, observe the following.

1. Place the shift lever in "1" or "R" for manual transmission vehicles, and in "P" for automatic transmission vehicles.

2. Use tire stops under the tires to prevent the vehicle from moving.

When the vehicle is parked in snow or when it snows, raise the wiper blades off the glass to prevent damage to them.

When the vehicle has been left parked after use on roads heavily covered with snow, or has been left parked during a snowstorm, icing may develop on the brake system, which could cause poor braking action. Check for snow or ice buildup on the suspension, disc brakes and brake hoses underneath the vehicle. If there is caked snow or ice, remove it, being careful not to damage the disc brakes and brake hoses and ABS harness.

WARNING

Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle if you park the vehicle in snow with the engine running.

▼ Refueling in cold weather

To help prevent moisture from forming in the fuel system and the risk of its freezing, use of an antifreeze additive in the fuel tank is recommended during cold weather.

Use only additives that are specifically designed for this purpose. When an antifreeze additive is used, its effect lasts longer if the tank is refilled whenever the fuel level reaches half empty.

If your Saab is not going to be used for an extended period, it is best to have the fuel tank filled to capacity.

Driving on snowy and icy roads

To prevent skidding and slipping, avoid sudden braking, abrupt acceleration, highspeed driving, and sharp turning when driving on snowy or icy roads.

Always maintain ample distance between

8-8 Driving tips

your vehicle and the vehicle ahead of you to avoid the need for sudden braking. To supplement the foot brake, use the engine brake effectively to control the vehicle speed. (Shift into a lower gear when necessary.)

Avoid shifting down abruptly. Such behavior can cause the wheels to lock, possibly leading to loss of vehicle control.

An anti-lock brake system (ABS) enhances your vehicle's braking performance on snowy and icy roads. Refer to the "ABS (Anti-lock Brake System)" section in chapter 7 for information on braking on slippery surfaces.

NOTE

The following tires are summer tires. Compared with winter and all-season tires, summer tires give significantly less grip on snowy and icy road surfaces. Avoid driving on snowy and icy road surface with summer tires.

Optional 215/45R17 tires for Aero

Do not use the cruise control on slippery roads such as snowy or icy roads. This may cause loss of vehicle control.

Avoid prolonged continuous driving in snowstorms. Snow will enter the engine's intake system and may hinder the air flow, which could result in engine shutdown or even breakdown.

▼ Wiper operation when snowing

Before driving in cold weather, make sure the wiper blades are not frozen to the windshield or rear window. If the wiper blades are frozen to the windshield or rear window, use the defroster with the airflow control dial in the " \\ "\ " position and the temperature control dial set for maximum warmth until the wiper blades are completely thawed out. If your vehicle is equipped with a wiper deicer, it is helpful to thaw the windshield wiper blades. To thaw out the rear wiper blade, use the rear window defogger.

When driving in snow, if frozen snow starts to stick on the surface of the windshield despite wiper operation, use the defroster with the airflow control dial in " (W)" and the temperature control dial set for maximum warmth. After the windshield gets warmed enough to melt the frozen snow on it, wash it away using the windshield washer. Snow stuck on the wiper arm prevents the wiper from working effectively. If snow is stuck on the wiper arm, pull off the road to a safe place, then remove it. If you stop the vehicle at road side, use the hazard warning flasher to alert other drivers.

We recommend use of non-freezing type wiper blades (winter blades) during the seasons you could have snow and subzero temperatures. Blades of this type give superior wiping performance in snowy conditions. Be sure to use blades that are suitable for your vehicle.

During high-speed driving, nonfreezing type wiper blades may not perform as well as standard wiper blades. If this happens, reduce the vehicle speed.

NOTE

When the season requiring non-freezing type wiper blades is over, replace them with standard wiper blades.

Corrosion protection

Refer to the "Corrosion protection" section (chapter 10).

Snow tires

WARNING

- When replacing original tires with winter (snow) tires, make sure you use only the same size, construction and load range as the original tires listed on the tire label. Using other sizes and construction may affect speedometer/odometer calibration and clearance between the body and tires. It also may be dangerous and lead to loss of vehicle control.
- You must install four winter tires that are of the same size, construction, brand, and load range. Mixing other sizes or constructions may result in severe mechanical damage to the drive train of your vehicle and may affect ride, handling, braking and speedometer/odometer calibration. It also may be dangerous and lead to loss of vehicle control.
- Do not use a combination of radial, belted bias or bias tires since it may cause dangerous handling characteristics and lead to an accident.

Your vehicle may be equipped with "all season tires" as original equipment, which are designed to provide an adequate measure of traction, handling and braking performance in year-round driving. In winter, it may be possible to enhance performance through use of tires designed specifically for winter driving conditions.

The optional 215/45R17 tires for the Aero model are summer tires. Compared with winter and all-season tires, summer tires give significantly less grip on snowy and icy road surfaces. Therefore, use of winter tires is strongly recommended when driving with such road conditions.

When you choose to install winter tires on your vehicle, be sure to use the correct tire size and type. You must install four winter tires that are of the same size, construction, brand and load range and you should never mix radial, belted bias or bias tires since this may result in dangerous handling characteristics. When you choose a tire, make sure that there is enough clearance between the tire and vehicle body. Remember to drive with care at all times regardless of the type of tires on your vehicle.

■ Tire chains

Driving on snowy grades or icy roads may require the use of tire chains, in which case put the chains on the front wheels only. Use only SAE class S type chains that are of the correct size for your tires so as not to damage the vehicle body or suspension.

When driving with tire chains, drive at speeds below 19 mph (30 km/h).

When a temporary spare tire is on a front wheel, replace the temporary spare tire with the rear tire on the same side of the vehicle, and then fit chains on the front tires.

Always use the utmost care when driving with tire chains – overconfidence because you are driving with tire chains could easily lead to a serious accident.

Tire chains cannot be used on tires listed in the following because of lack of clearance between the tires and vehicle body.

• Optional 215/45R17 tires for Aero

Rocking the vehicle

If you must rock the vehicle to free it from snow, sand, or mud, depress the accelerator pedal slightly and move the selector lever back and forth between "D" and "R"

8-10 Driving tips

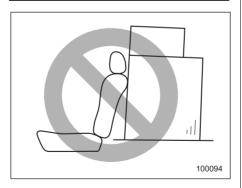
repeatedly. Do not race the engine. For the best possible traction, avoid spinning the wheels when trying to free the vehicle.

When the road surface is extremely slippery, you can obtain better traction by starting the vehicle with the transmission in 2nd than 1st (both for MT and AT).

Refer to the "Automatic transmission" section in chapter 7 for information on holding the transmission in 2nd position.

Loading your vehicle

- Never allow passengers to ride on a folded rear seatback, in the trunk or in the cargo area. Doing so may result in serious injury.
- Never stack luggage or other cargo higher than the top of the seatback because it could tumble forward and injure passengers in the event of a sudden stop or accident. Keep luggage or cargo low, as close to the floor as possible.



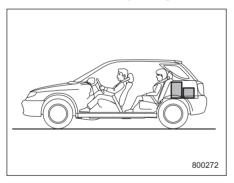
- When you carry something inside the vehicle, secure it whenever you can to prevent it from being thrown around inside the vehicle during sudden stops, sharp turns or in an accident.
- Do not pile heavy loads on the roof. These loads raise the vehicle's center of gravity and make it more prone to tip over.
- Secure lengthy items properly to prevent them from shooting forward and causing serious injury during a sudden stop.
- Never exceed the maximum load limit. If you do, some parts on your vehicle can break, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury. Also, overloading can shorten the life of your vehicle.
- Do not place anything on the rear shelf behind the extended luggage cover. Such items could tumble forward in the event of a sudden stop or a collision. This could cause serious injury.

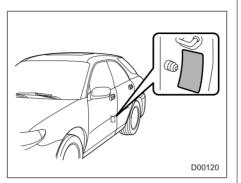
Do not carry spray cans, containers with flammable or corrosive liquids or any other dangerous items inside the vehicle.

NOTE

For better fuel economy, do not carry unneeded cargo.

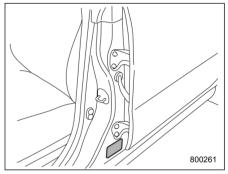
Vehicle capacity weight





The load capacity of your vehicle is determined by weight, not by available cargo space. The maximum load you can carry in your vehicle is shown on the vehicle label attached to the driver's side door pillar. It includes the total weight of driver and all passengers and their belongings, any optional equipment such as a trailer hitch, roof rack or bike carrier, etc., and the tongue load of a trailer.

■ GVWR and GAWR (Gross Vehicle Weight Rating and Gross Axle Weight Rating)



The certification plate attached to the driver's side door jamb shows GVWR (Gross Vehicle Weight Rating) and GAWR (Gross Axle Weight Rating).

The GVW (Gross Vehicle Weight) must never exceed the GVWR. GVW is the combined total of weight of the vehicle, fuel, driver, all passengers, luggage, any optional equipment and trailer tongue load. Therefore, the GVW changes depending on the situation. The GVWR equals Curb Weight (actual weight of your vehicle – including standard equipment, fluids, emergency tools and spare tire assembly) plus the vehicle capacity weight.

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In addition, the total weight applied to each axle (GAW) must never exceed the GAWR. The front and rear GAWs can be adjusted by relocating luggage inside the vehicle.

Even if the total weight of your luggage is lower than the vehicle capacity weight, either front or rear GAW may exceed the GAWR, depending on the distribution of the luggage.

When possible, the load should be evenly distributed throughout the vehicle.

If you carry heavy loads in the vehicle, you should confirm that GVW and front and rear GAWs are within the GVWR and GAWR by putting your vehicle on a vehicle scale, found at a commercial weighing station.

Do not use replacement tires with a lower load range than the originals because they may lower the GVWR and GAWR limitations. Replacement tires with a higher load range than the originals do not increase the GVWR and GAWR limitations.

Roof crossbar *

Cargo can be carried after securing the roof crossbar kit and installing the appropriate carrying attachment. When installing the roof crossbar kit, follow the manufacturer's instructions. When you carry cargo on the roof using the roof crossbar kit and a carrying attachment, never exceed the maximum load limit explained in the following. You should also be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) and front and rear Gross Axle Weight Rating (GAWR). See the "Loading vour vehicle" section in this chapter for information on loading cargo into or onto vour vehicle. The maximum load limit of the cargo, crossbars and carrying attachment must not exceed 100 lbs (45 kg). Place the heaviest load at the bottom. nearest the roof, and evenly distribute the cargo. Always properly secure all cargo.

 When using the roof crossbar kit, make sure that the total weight of the crossbars, carrying attachment and cargo does not exceed the maximum load limit. Overloading may cause damage to the vehicle and create a safety hazard. • Do not carry cargo on the roof when the crossbars are removed. Luggage on the roof will be thrown forward or backward in sudden stops or rapid accelerations, resulting in a dangerous road hazard.

▼ Installing carrying attachments on the crossbars

When installing any carrying attachment such as a bike carrier, ski carrier, kayak carrier, cargo basket, etc. on the crossbars, follow the manufacturer's instructions and make sure that the attachment is securely fixed to the crossbars. Use only attachments designed specifically for the crossbars. A set of the crossbars is designed to carry loads (cargo and attachment) of not more than **100 lbs (45 kg)**. Before operating the vehicle, make sure that the cargo is properly secured on the attachment.

NOTE

Remember that the vehicle's center of gravity is altered with the weight of the load on the roof, thus affecting the driving characteristics.

Drive carefully. Avoid rapid starts, hard cornering and abrupt stops. Crosswind effects will be increased.

Trailer towing

Your vehicle is designed and intended to be used primarily as a passenger-carrying vehicle. Towing a trailer puts additional loads on your vehicle's engine, drivetrain, brakes, tires and suspension and has an adverse effect on fuel economy.

If you do decide to tow a trailer, your safety and satisfaction depend upon proper use of correct equipment and cautious operation of your vehicle. Seek the advice of your Saab dealer to assist you in purchasing a hitch and other necessary towing equipment appropriate for your vehicle. In addition, be sure to follow the instructions on correct installation and use provided by the trailer and other towing equipment manufacturers.

Saab assumes no responsibility for injuries or vehicle damage that result from trailer towing equipment, or from any errors or omissions in the instructions accompanying such equipment or for your failure to follow the proper instructions.

Warranties and maintenance

For details of application of warranties to vehicle damage or malfunctions related with trailer towing, please refer to the "Saab Warranty and Service Record Booklet". If you use your vehicle to tow a trailer, more frequent maintenance will be required due to the additional load. (Refer to "Maintenance schedule under severe driving conditions" in the "Saab Warranty and Service Record Booklet".)

Under no circumstances should a trailer be towed with a new vehicle or a vehicle with any new powertrain component (engine, transmission, differential, wheel bearings, etc.) for the first 1,000 miles (1,600 km) of driving.

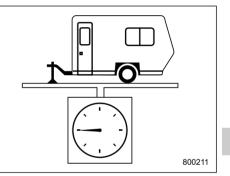
Maximum load limits

WARNING

Never exceed the maximum load limits explained in the following. Exceeding the maximum load limits could cause personal injury and/or vehicle damage.

• Adequate size trailer brakes are required when the trailer and its cargo exceed 1,000 lbs (453 kg) total weight.

- Before towing a trailer, check the trailer total weight, GVW, GAWs and tongue load. Make sure the load and its distribution in your vehicle and trailer are acceptable.
- ▼ Total trailer weight



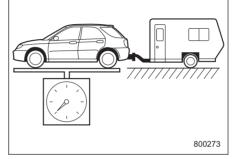
Total trailer weight

The total trailer weight (trailer weight plus its cargo load) must never exceed the maximum weight shown in the following table.

8-14 Driving tips

Model	Conditions	Maximum total trailer weight
MT models	When towing a trailer without brakes.	1,000 lbs (453 kg)
	When towing a trailer with brakes.	2,000 lbs (906 kg)
AT models	When towing a trailer without brakes.	1,000 lbs (453 kg)
	When towing a trailer with brakes.	2,000 lbs (906 kg)
	When towing a trailer on a long uphill grade continuously for over 5 miles (8 km) with an outside temperature of $104^{\circ}F$ (40°C) or above.	1,000 lbs (453 kg)

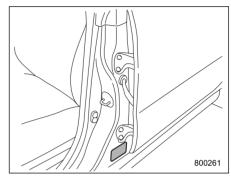
▼ Gross Vehicle Weight (GVW) and Gross Vehicle Weight Rating (GVWR)



Gross Vehicle Weight

The Gross Vehicle Weight (GVW) must never exceed the Gross Vehicle Weight Rating (GVWR).

Gross Vehicle Weight (GVW) is the combined total of the weight of the vehicle, driver, passengers, luggage, trailer hitch, trailer tongue load and any other optional equipment installed on your vehicle. Therefore, the GVW changes depending on the situation. Determine the GVW each time before going on a trip by putting your vehicle and trailer on a vehicle scale.



Certification label

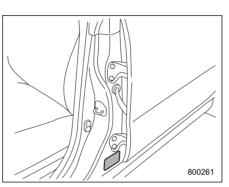
GVWR is shown on the certification plate located on the driver's side door jamb of your vehicle.

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▼ Gross Axle Weight (GAW) and Gross Axle Weight Rating (GAWR)

Gross Axle Weight

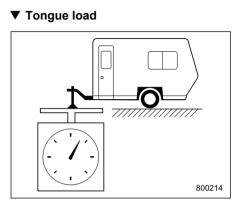
The total weight applied to each axle (GAW) must never exceed the Gross Axle Weight Rating (GAWR). The front and rear GAWs can be adjusted by relocating passengers and luggage inside the vehicle. The front and rear GAWR are also shown on the certification plate.



Certification label

To check both GVWR and GAWR and to confirm that the total weight and weight distribution are within safe driving limits, you should have your vehicle and trailer weighed at a commercial weighing station.

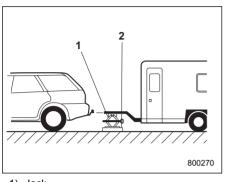
Be sure that all cargo is firmly secured to prevent a change in weight distribution while driving.

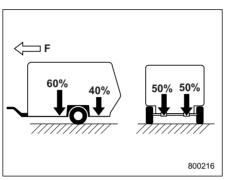


Tongue load

Ensure that the trailer tongue load is from 8 to 11 percent of the total trailer weight and does not exceed the maximum value of 200 lbs (90 kg).

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1) Jack

2) Bathroom scale

The tongue load can be weighed with a bathroom scale as shown in the following illustration. When weighing the tongue load, be sure to position the towing coupler at the height at which it would be during actual towing, using a jack as shown.

F: Front of vehicle

The tongue load can be adjusted by proper distribution of the load in the trailer. Never load the trailer with more weight in the back than in the front; approximately 60 percent of the trailer load should be in the front and approximately 40 percent in the rear. Also, distribute the load as evenly as possible on both the left and right sides.

Be sure that all cargo is firmly secured to prevent a change in weight distribution while driving.

If the trailer is loaded with more weight in the back of trailer's axle than in the front, the load is taken off the rear axle of the towing vehicle. This may cause the rear wheels to skid, especially during braking or when vehicle speed is reduced during cornering, resulting in oversteer, spin out and/or jackknifing.

Trailer hitches

Choose a proper hitch for your vehicle and trailer.

WARNING

Never drill the frame or under-body of your vehicle to install a commercial trailer hitch. If you do, dangerous exhaust gas, water or mud may enter the passenger compartment through the drilled hole. Exhaust gas contains carbon monoxide, a colorless and odorless gas which is dangerous, or even lethal, if inhaled. Also, drilling the frame or underbody of your vehicle could cause deterioration of strength of your vehicle and cause corrosion around the drilled hole.

- Do not modify the vehicle exhaust system, brake system, or other systems when installing a hitch or other trailer towing equipment.
- Do not use axle-mounted hitches as they can cause damage to the axle housing, wheel bearings, wheels or tires.

The use of a genuine Saab trailer hitch is recommended. A genuine Saab hitch is available from your Saab dealer.

If use of a non-genuine hitch is unavoidable, be sure the hitch is suited to your vehicle and trailer. Consult with a professional hitch supplier to assist you in choosing an appropriate hitch for your vehicle. Be sure to follow all of the hitch manufacturer's instructions for installation and use.

Never use a hitch that mounts only to the rear bumper. The bumper is not designed to handle that type of load.

For all types of hitches, regularly check that the hitch mounting bolts and nuts are tight.

■ Connecting a trailer

▼ Trailer brakes

If your trailer's total weight (trailer weight plus its cargo weight) exceeds 1,000 lbs (453 kg), the trailer is required to be equipped with its own brake system. Electric brakes or surge brakes are recommended, and must be installed properly. Check that your trailer's brakes conform with Federal, state/province and/or other applicable regulations. Your Saab's brake system is not designed to be tapped into the trailer's hydraulic brake system. Please ask your Saab dealer and professional trailer supplier for more information about the trailer's brake system.

- Adequate size trailer brakes are required when the trailer and its cargo exceed 1,000 lbs (453 kg) total weight.
- Do not directly connect your trailer's hydraulic brake system to the hydraulic brake system in your vehicle. Direct connection would cause the vehicle's brake performance to deteriorate and could lead to an accident.

▼ Trailer safety chains

In case the trailer hitch connector or hitch ball should break or become disconnected, the trailer could get loose and create a traffic safety hazard.

For safety, always connect the towing vehicle and trailer with trailer safety chains. Pass the chains crossing each other under the trailer tongue to prevent the trailer from dropping onto the ground in case the trailer tongue should disconnect from the hitch ball. Allow sufficient slack in the chains taking tight-turn situations into ac-

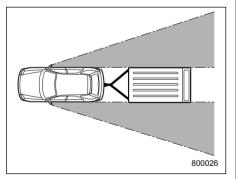
8-18 Driving tips

count; however, be careful not to let them drag on the ground.

For more information about the safety chain connection, refer to the instructions for your hitch and trailer.

Always use safety chains between your vehicle and the trailer. Towing a trailer without safety chains could create a traffic safety hazard if the trailer separates from the hitch due to coupling damage or hitch ball damage.

▼ Side mirrors



After hitching a trailer to your vehicle, check that the standard side mirrors pro-

vide a good rearward field of view without significant blind spots. If significant blind spots occur with the vehicle's standard side mirrors, use towing mirrors that conform with Federal, state/province and/or other applicable regulations.

▼ Trailer lights

Connection of trailer lights to your vehicle's electrical system requires modifications to the vehicle's lighting circuit to increase its capacity and accommodate wiring changes. To ensure the trailer lights are connected properly, please consult your Saab dealer. Check for proper operation of the turn signals, the brake lights and parking lights each time you hitch up.

Direct splicing or other improper connection of trailer lights may damage your vehicle's electrical system and cause a malfunction of your vehicle's lighting system.

▼ Tires

Make sure that all the tires on your vehicle are properly inflated to the pressure specified on the tire label located on the left center pillar of your vehicle.

Trailer tire condition, size, load rating and

proper inflation pressure should be in accordance with the trailer manufacturer's specifications.

In the event your vehicle gets a flat tire when towing a trailer, ask a commercial road service to repair the flat tire.

If you carry a regular size spare tire in your vehicle or trailer as a precaution against getting a flat tire, be sure that the spare tire is firmly secured.

Never tow a trailer when the temporary spare tire is used. The temporary spare tire is not designed to sustain the towing load. Use of the temporary spare tire when towing can result in failure of the spare tire and/or less stability of the vehicle.

■ Trailer towing tips

• Never exceed 45 mph (72 km/h) when towing a trailer in hilly country on hot days.

 When towing a trailer, steering, stability, stopping distance and braking performance will be different from normal operation. For safety's sake, you should employ extra caution when towing a trailer and you should never speed. You should also keep the following tips in mind:

Before starting out on a trip

• Check that the vehicle and vehicle-tohitch mounting are in good condition. If any problems are apparent, do not tow the trailer.

• Check that the vehicle sits horizontally with the trailer attached. If the vehicle is tipped sharply up at the front and down at the rear, check the total trailer weight, GVW, GAWs and tongue load again, then confirm that the load and its distribution are acceptable.

• Check that the tire pressures are correct.

• Check that the vehicle and trailer are connected properly. Confirm that

- the trailer tongue is connected properly to the hitch ball.

 the trailer lights connector is connected properly and trailer's brake lights illuminate when the vehicle's brake pedal is pressed, and that the trailer's turn signal lights flash when the vehicle's turn signal lever is operated.

- the safety chains are connected properly.

 all cargo in the trailer is secured safety in position.

- the side mirrors provide a good rearward field of view without a significant blind spot.

• Sufficient time should be taken to learn the "feel" of the vehicle/trailer combination before starting out on a trip. In an area free of traffic, practice turning, stopping and backing up.

Driving with a trailer

• You should allow for considerably more stopping distance when towing a trailer. Avoid sudden braking because it may result in skidding or jackknifing and loss of control.

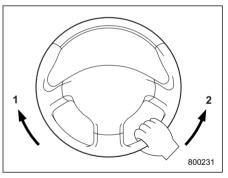
• Avoid abrupt starts and sudden accelerations. If your vehicle has a manual transmission, always start out in first gear and release the clutch at moderate engine revolution.

• Avoid uneven steering, sharp turns and rapid lane changes.

• Slow down before turning. Make a longer than normal turning radius because the trailer wheels will be closer than the vehicle wheels to the inside of the turn. In a tight turn, the trailer could hit your vehicle.

• Crosswinds will adversely affect the handling of your vehicle and trailer, causing sway. Crosswinds can be due to weather conditions or the passing of large trucks or buses. If swaying occurs, firmly grip the steering wheel and slow down immediately but gradually.

• When passing other vehicles, considerable distance is required because of the added weight and length caused by attaching the trailer to your vehicle.



1) Left turn

2) Right turn

• Backing up with a trailer is difficult and takes practice. When backing up with a trailer, never accelerate or steer rapidly. When turning back, grip the bottom of the

8-20 Driving tips

steering wheel with one hand and turn it to the left for a left turn, and turn it to the right for a right turn.

• If the ABS warning light illuminates while the vehicle is in motion, stop towing the trailer and have repairs performed immediately by the nearest Saab dealer.

▼ Driving on grades

• Before going down a steep hill, slow down and shift into lower gear (if necessary, use 1st gear) in order to utilize the engine braking effect and prevent overheating of your vehicle's brakes. Do not make sudden downshifts.

• When driving uphill in hot weather, the air conditioner may turn off automatically to protect the engine from overheating.

• When driving uphill in hot weather, pay attention to the water temperature gauge pointer (for all vehicles) and AT OIL TEMP warning light (for AT vehicles) since the engine and transmission are relatively prone to overheating under these conditions. If the water temperature gauge pointer approaches the OVERHEAT zone or the AT OIL TEMP warning light illuminates, immediately switch off the air conditioner and stop the vehicle at the nearest safe place. Refer to the "Engine overheating" section in chapter 9, and "Warning and indicator lights" section in chapter 3.

• If your vehicle has an automatic transmission, avoid using the accelerator pedal to stay stationary on an uphill slope instead of using the parking brake or foot brake. That may cause the transmission fluid to overheat.

• If your vehicle has an automatic transmission, place the selector lever as follows:

Uphill slopes: "D" position

Downhill slopes: A low-speed gear position to use engine braking

▼ Parking on a grade

Always block the wheels under both vehicle and trailer when parking. Apply the parking brake firmly. You should not park on a hill or slope. But if parking on a hill or slope cannot be avoided, you should take the following steps:

1. Apply the brakes and hold the pedal down.

2. Have someone place wheel blocks under both the vehicle and trailer wheels.

3. When the wheel blocks are in place, release the regular brakes slowly until the blocks absorb the load.

4. Apply the regular brakes and then apply the parking brake; slowly release the regular brakes.

5. Shift into 1st or reverse gear (manual

transmission) or "P" (automatic transmission) and shut off the engine.

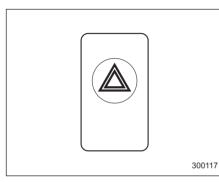
In case of emergency

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

If you park your vehicle in case of an emergency



The hazard warning flasher should be used in day or night to warn other drivers when you have to park your vehicle under emergency conditions.

Avoid stopping on the road. It is best to safely pull off the road if a problem occurs.

The hazard warning flasher can be activated regardless of the ignition switch position.

Turn on the hazard warning by pushing the hazard warning flasher switch. Turn it off by pushing the switch again.

NOTE

When the hazard warning flasher is on, the turn signals do not work.

Temporary spare tire

The temporary spare tire is smaller and lighter than a conventional tire and is designed for emergency use only. Remove the temporary spare tire and re-install the conventional tire as soon as possible because the spare tire is designed only for temporary use.

Check the inflation pressure of the temporary spare tire periodically to keep the tire ready for use. The correct pressure is **60 psi (420 kPa, 4.2 kgf/cm²)**.

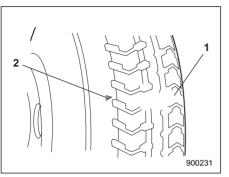
When using the temporary spare tire, note the following.

• Do not exceed 50 mph (80 km/h).

• Do not put a tire chain on the temporary spare tire. Because of the smaller tire size, a tire chain will not fit properly.

• Do not use two or more temporary spare tires at the same time.

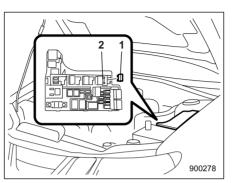
• Do not drive over obstacles. This tire has a smaller diameter, so road clearance is reduced.



- 1) Tread wear indicator bar
- 2) Indicator location mark

• When the wear indicator appears on the tread, replace the tire.

• The temporary spare tire must be used only on a rear wheel. If a front wheel tire gets punctured, replace the wheel with a rear wheel and install the temporary spare tire in place of the removed rear wheel.



Spare fuse
 FWD connector

NOTE

(If your vehicle is AWD with automatic transmission, except Turbo models) Before driving your vehicle with the temporary spare tire, put a spare fuse inside the FWD connector in the main fuse box located in the engine compartment and confirm that the Frontwheel drive warning light "FWD" in the instrument cluster comes on. The All-Wheel Drive capability of the vehicle has now deactivated. After re-installing the conventional tire, remove the spare fuse from the FWD connector in order to reactivate All-Wheel Drive.

Never tow a trailer when the temporary spare tire is used. The temporary spare tire is not designed to sustain the towing load. Use of the temporary spare tire when towing can result in failure of the spare tire and/or less stability of the vehicle and may lead to an accident.

Never use any temporary spare tire other than the original. Using other sizes may result in severe mechanical damage to the drive train of your vehicle.

9-4 In case of emergency

Flat tires

If you have a flat tire while driving, never brake suddenly; keep driving straight ahead while gradually reducing speed. Then slowly pull off the road to a safe place.

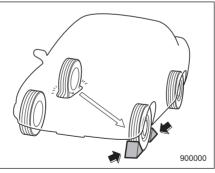
■ Changing a flat tire

- Do not jack up the vehicle on an incline or a loose road surface. The jack can come out of the jacking point or sink into the ground and this can result in a severe accident.
- Use only the jack provided with your vehicle. The jack supplied with the vehicle is designed only for changing a tire. Never get under the vehicle while supporting the vehicle with this jack.

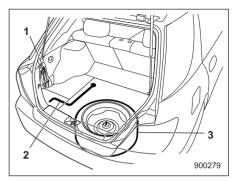
- Always turn off the engine before raising the flat tire off the ground using the jack. Never swing or push the vehicle supported with the jack. The jack can come out of the jacking point due to a jolt and this can result in a severe accident.
- 1. Park on a hard, level surface, whenever possible, then stop the engine.

2. Set the parking brake securely and shift a manual transmission vehicle in reverse or an automatic transmission vehicle in the "P" (Park) position.

3. Turn on the hazard warning flasher and have everyone get out of the vehicle.



4. Put wheel blocks at the front and rear of the tire diagonally opposite the flat tire.



1) Jack

2) Jack handle

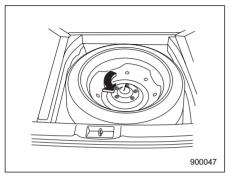
3) Spare tire

5. Take out the spare tire, jack, and wheel nut wrench.

The spare tire is stored under the floor of the cargo area.

To remove the spare tire, proceed as follows:

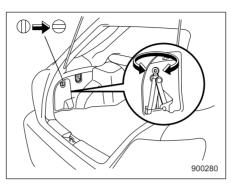
In case of emergency **9-5**



Open the lid and hang the hook provided on the under side of the lid on the rear edge of the roof to keep the lid open.

Turn the attaching bolt counterclockwise, then take spare tire out.

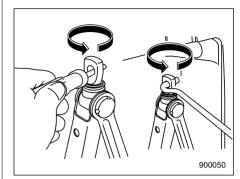
If the spare tire provided in your vehicle is a temporary spare tire, carefully read the section "Temporary spare tire" in this chapter and strictly follow the instructions.



The jack is stored on the left side of the cargo area.

To take out the jack:

Remove the cover, turn the jackscrew counterclockwise to loosen it, then remove the jack.



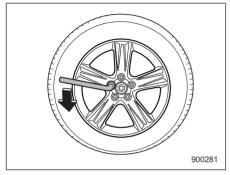
If the jackscrew is too tight to be loosened by hand, loosen it using a screwdriver or the jack handle.

The jack handle is stored under the spare tire cover.

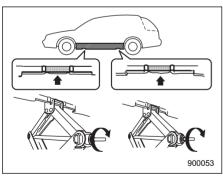
NOTE

Make sure the jack is well lubricated before using it.

9-6 In case of emergency

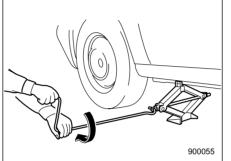


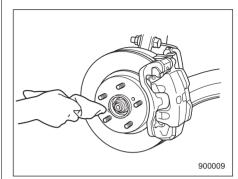
6. Loosen the wheel nuts using the wheel nut wrench but do not remove the nuts.



7. Place the jack under the side sill at the front or rear jack-up point closest to the flat tire.

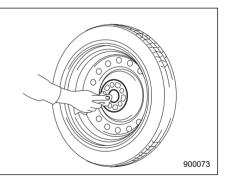
Turn the jackscrew by hand until the jack head engages firmly into the jack-up point.





8. Insert the jack handle into the jackscrew, and turn the handle until the tire clears the ground. Do not raise the vehicle higher than necessary.

9. Remove the wheel nuts and the flat tire.

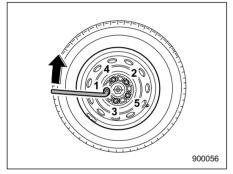


10.Before putting the spare tire on, clean the mounting surface of the wheel and hub with a cloth.

11.Put on the spare tire. Replace the wheel nuts. Tighten them by hand.

Do not use oil or grease on the wheel studs or nuts when the spare tire is installed. This could cause the nuts to become loose and lead to an accident.

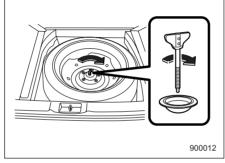
12.Turn the jack handle counterclockwise to lower the vehicle.



13.Use the wheel nut wrench to securely tighten the wheel nuts to the specified torque, following the tightening order in the illustration.

The torque for tightening the nuts is 58 to 72 lbf·ft (80 to 100 N·m, 8 to 10 kgf·m). This torque is equivalent to applying approximately 88 to 110 lbs (40 to 50 kg) at

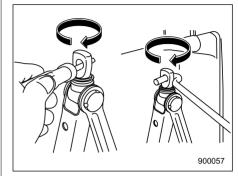
the top of the wheel nut wrench. Never use your foot on the wheel nut wrench or a pipe extension on the wrench because you may exceed the specified torque. Have the wheel nut torque checked at the nearest automotive service facility.



14.Store the flat tire in the spare tire compartment.

Put the spacer and tighten the attaching bolt firmly.

Also store the jack and wheel nut wrench in their storage locations.



After placing the jack in its storage location, turn the jackscrew clockwise by hand until it becomes too hard to turn. Then, tighten it by an additional 1/4 - 1/3 of a turn using a screwdriver or the jack handle. Unless the jack is properly secured, it may rattle while the vehicle is moving.

Never place a tire or tire changing tools in the passenger compartment after changing wheels. In a sudden stop or collisions, loose equipment could strike occupants and cause injury. Store the tire and all tools in the proper place.

Jump starting

• Battery fluid is SULFURIC ACID. Do not let it come in contact with the hooks, skin, clothing or the vehicle.

If battery fluid gets on you, thoroughly flush the exposed area with water immediately. Get medical help if the fluid has entered your eyes.

If battery fluid is accidentally swallowed, immediately drink a large amount of milk or water, and obtain immediate medical help.

Keep everyone including children away from the battery.

- The gas generated by a battery explodes if a flame or spark is brought near it. Do not smoke or light a match while jump starting.
- Never attempt jump starting if the discharged battery is frozen. It could cause the battery to burst or explode.

- Whenever working on or around a battery, always wear suitable eye protection, and remove metal objects such as rings, bands or other metal jewelry.
- Be sure the jumper cables and clamps on them do not have loose or missing insulation.

Do not jump start unless cables in suitable condition are available.

- A running engine can be dangerous. Keep your fingers, hands, clothing, hair and tools away from the cooling fan, belts and any other moving engine parts. Removing rings, watches and ties is advisable.
- Jump starting is dangerous if it is done incorrectly. If you are unsure about the proper procedure for jump starting, consult a competent mechanic.

When your vehicle does not start due to a run down (discharged) battery, the vehicle may be jump started by connecting your battery to another battery (called the booster battery) with jumper cables.

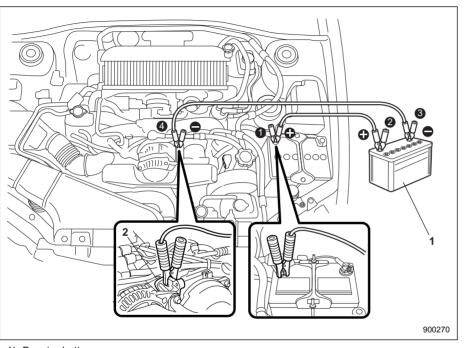
■ How to jump start

1. Make sure the booster battery is 12 volts and the negative terminal is ground-ed.

2. If the booster battery is in another vehicle, do not let the two vehicles touch.

3. Turn off all unnecessary lights and accessories.

4. Connect the jumper cables exactly in the sequence illustrated.



- 1) Booster battery
- 2) Engine lifting bracket

1)Connect one jumper cable to the positive (+) terminal on the discharged battery.

2) Connect the other end of the jumper cable to the positive (+) terminal of the booster battery.

3)Connect one end of the other cable to the negative (–) terminal of the booster battery.

4) Connect the other end of the cable to the engine lifting bracket.

Make sure that the cables are not near any moving parts and that the cable clamps are not in contact with any other metal.

 Start the engine of the vehicle with the booster battery and run it at moderate speed. Then start the engine of the vehicle that has the discharged battery.
 When finished, carefully disconnect the cables in exactly the reverse order.

Engine overheating

Never attempt to remove the radiator cap until the engine has been shut off and has fully cooled down. When the engine is hot, the coolant is under pressure. Removing the cap while the engine is still hot could release a spray of boiling hot coolant, which could burn you very seriously.

If the engine overheats, safely pull off the road and stop the vehicle in a safe place.

■ If steam is coming from the engine compartment

Turn the engine off and get everyone away from the vehicle until it cools down.

■ If no steam is coming from the engine compartment

1. Keep the engine running at idling speed.

2. Open the hood to ventilate the engine compartment.

Confirm that the cooling fan is turning. If the fan is not turning, immediately turn off

the engine and contact your authorized dealer for repair.

3. After the engine coolant temperature has dropped, turn off the engine.

If the temperature gauge stays at the overheated zone, turn off the engine.

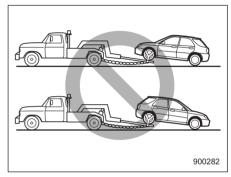
4. After the engine has fully cooled down, check the coolant level in the reserve tank.

If the coolant level is below the "LOW" mark, add coolant up to the "FULL" mark. 5. If there is no coolant in the reserve tank, add coolant to the reserve tank. Then remove the radiator cap and fill the radiator with coolant.

If you remove the radiator cap from a hot radiator, first wrap a thick cloth around the radiator cap, then turn the cap counterclockwise slowly without pressing down until it stops. Release the pressure from the radiator. After the pressure has been fully released, remove the cap by pressing down and turning it.

Towing

If towing is necessary, it is best done by your Saab dealer or a commercial towing service. Observe the following procedures for safety.



Never tow AWD vehicles (both AT and MT) with the front wheels raised off the ground while the rear wheels are on the ground, or with the rear wheels raised off the ground while the front wheels are on the ground.

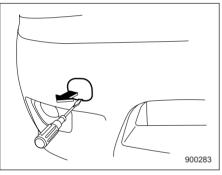
This will cause the vehicle to spin away due to the operation or deterioration of the center differential.

Towing and tie-down hooks

The towing hooks should be used only in an emergency (e.g., to free a stuck vehicle from mud, sand or snow).

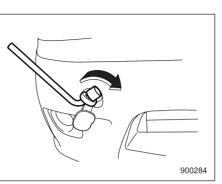
Front towing hook:

1. Take out the towing hook, screwdriver and wheel nut wrench from the on board tool bag.



2. Insert a flat-head screwdriver into the slot on the towing hook cover, then use it to pry the cover upward.

3. Screw the towing hook into the thread hole until its thread can no longer be seen.

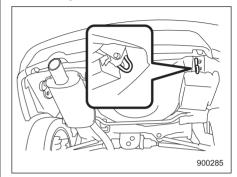


4. Tighten the towing hook securely using the wheel nut wrench.

After towing, remove the towing hook from the vehicle and stow it in the tool bag. Fit the towing hook cover on the bumper.

- Do not use the towing hook except when towing your vehicle.
- Be sure to remove the towing hook after towing. Leaving the towing hook mounted on the vehicle could interfere with proper operation of the SRS airbag system in a frontal collision.

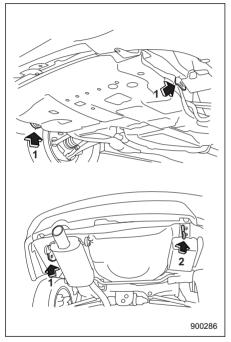
Rear towing hook:



To prevent deformation to the front bumper and the towing hook, do not apply excessive lateral load to the towing hook.

9-12 In case of emergency

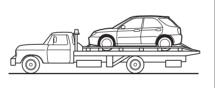
Tie-down hooks:



- 1) Tie-down hook
- 2) Towing and tie-down hook

- Use only the specified towing hook and tie-down hook. Never use suspension parts or other parts of the body for towing or tie-down purposes.
- Never use the tie-down hook on the underside of the vehicle closest to the muffler for towing purposes.

■ Using a flat-bed truck



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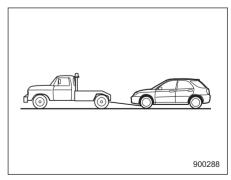
This is the best way to transport your vehicle. Use the following procedures to ensure safe transportation.

1. Shift the selector lever into the "P" position for automatic transmission vehicles or "1st" for manual transmission vehicles.

Pull up the parking brake lever firmly.
 Secure the vehicle onto the carrier properly with safety chains. Each safety chain should be equally tightened and care must be taken not to pull the chains so tightly that the suspension bottoms out.

If your vehicle has a front underspoiler and rear underspoiler, be careful not to scrape them when placing the vehicle on the carrier and when removing the vehicle from the carrier.

Towing with all wheels on the ground



1. Check the transmission and differential oil levels and add oil to bring it to the upper level if necessary.

2. Release the parking brake and put the transmission in neutral.

3. The ignition switch should be in the "ACC" position while the vehicle is being towed.

4. Take up slack in the towline slowly to prevent damage to the vehicle.

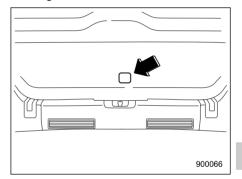
- Never turn the ignition switch to the "LOCK" position while the vehicle is being towed because the steering wheel and the direction of the wheels will be locked.
- Remember that the brake booster and power steering do not function when the engine is not running. Because the engine is turned off, it will take greater effort to operate the brake pedal and steering wheel.

• If transmission failure occurs, transport your vehicle on a flatbed truck.

- Do not run the engine while being towed using this method. Transmission damage could result if the vehicle is towed with the engine running.
- For vehicles with automatic transmission, the traveling speed must be limited to less than 20 mph (30 km/h) and the traveling distance to less than 31 miles (50 km). For greater speeds and distances, transport your vehicle on a flatbed truck.

Rear liftgate – if the rear liftgate cannot be unlocked

In the event that you cannot unlock the rear liftgate by operating the power door locking switches or the remote keyless entry system, you can unlock it from inside the cargo area.



 Remove the access cover at the bottom-center of the rear liftgate trim.
 Locate the rear liftgate lock release lever behind the rear liftgate trim panel.



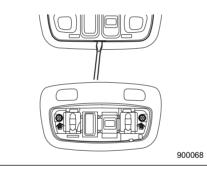
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- 3. Unlock the rear liftgate by pressing the lever inside the trim to the left.
- 4. Open the rear liftgate from outside by raising the rear liftgate handle.

Moonroof – if the moonroof cannot be closed

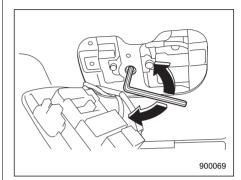
If the moonroof cannot be closed with the moonroof switch, you can close the moonroof manually.

1. Take out the hex-headed wrench from the glove compartment and screwdriver from the tool bag.



2. Remove the map light lens by prying the edge of the lens using a flat-head screwdriver.

3. Remove the two screws that retain the moonroof switch body. Then, remove the moonroof switch.



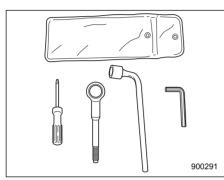
4. Insert the wrench in the end of the motor shaft.

To lower the moonroof, turn the wrench clockwise.

To close the moonroof, turn the wrench counterclockwise.

Have your vehicle checked and repaired by an authorized Saab dealer.

Maintenance tools



Your vehicle is equipped with the following maintenance tools:

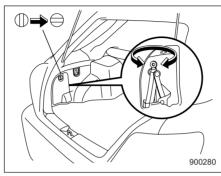
Screwdriver Towing hook (eye bolt)

Wheel nut wrench

*Hex-headed wrench (vehicles with moonroof)

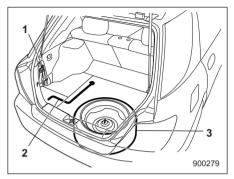
*: The hex-headed wrench is stored in the glove box.

■ Jack and jack handle



The jack is stored on the left side of the cargo area.

To take out the jack, turn the jackscrew counterclockwise to loosen it, then remove the jack.



- 1) Jack
- 2) Jack handle
- 3) Spare tire

The jack handle is stored under the spare tire cover.

For how to use the jack, refer to "Flat tires".

______ ______ ______ ______ ______ ______

Appearance care

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panel, console panel, and switches	10-5

* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Exterior care

Washing

- When washing the vehicle, the brakes may get wet. As a result, the brake stopping distance will be longer. To dry the brakes, drive the vehicle at a safe speed while lightly pressing the brake pedal to heat up the brakes.
- Do not wash the engine compartment and area adjacent to it. If water enters the engine air intake, electrical parts or the power steering fluid reservoir, it will cause engine trouble or faulty power steering respectively.
- Since your vehicle is equipped with a rear wiper, automatic carwash brushes could become tangled around it, damaging the wiper arm and other components. Ask the automatic car-wash operator not to let the brushes touch the wiper arm or to fix the wiper arm on the rear window glass with adhesive tape before operating the machine.

NOTE

When having your vehicle washed in an automatic car wash, make sure beforehand that the car wash is of suitable type.

The best way to preserve your vehicle's beauty is frequent washing. Wash the vehicle at least once a month to avoid contamination by road grime.

Wash dirt off with a wet sponge and plenty of lukewarm or cold water. Do not wash the vehicle with hot water and in direct sunlight.

Salt, chemicals, insects, tar, soot, tree sap, and bird droppings should be washed off by using a light detergent, as required. If you use a light detergent, make certain that it is a neutral detergent. Do not use strong soap or chemical detergents. All cleaning agents should be promptly flushed from the surface and not allowed to dry there. Rinse the vehicle thoroughly with plenty of lukewarm water. Wipe the remaining water off with a chamois or soft cloth. In the U.S., see your dealer or visit www.saabcatalog.com for a full line of car care products.

▼ Washing the underbody

Chemicals, salts and gravel used for deic-

ing road surfaces are extremely corrosive, accelerating the corrosion of underbody components, such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders, and suspension.

Thoroughly flush the underbody and inside of the fenders with lukewarm or cold water at frequent intervals to reduce the harmful effects of such agents.

Mud and sand adhering to the underbody components may accelerate their corrosion.

After driving off-road or on muddy or sandy roads, wash the mud and sand off the underbody. Carefully flush the suspension and axle parts, as they are particularly prone to mud and sand buildup. Do not use a sharp-edged tool to remove caked mud.

NOTE

Be careful not to damage brake hoses, sensor harnesses, and other parts when washing suspension components.

▼ Using a warm water washer

• Keep a good distance of 12 in (30 cm) or more between the washer nozzle and the vehicle.

• Do not wash the same area continuously. • If a stain will not come out easily, wash by hand. Some warm water washers are of the high temperature, high pressure type, and they can damage or deform the resin parts such as mouldings, or cause water to leak into the vehicle.

Waxing and polishing

Always wash and dry the vehicle before waxing and polishing.

Use a good quality polish and wax and apply them according to the manufacturer's instructions. Wax or polish when the painted surface is cool.

Be sure to polish and wax the chrome trim, as well as the painted surfaces. Loss of wax on a painted surface leads to loss of the original luster and also quickens the deterioration of the surface. It is recommended that a coat of wax be applied at least once a month, or whenever the surface no longer repels water.

If the appearance of the paint has diminished to the point where the luster or tone cannot be restored, lightly polish the surface with a fine-grained compound. Never polish just the affected area, but include the surrounding area as well. Always polish in only one direction. A No. 2000 grain compound is recommended. Never use a coarse-grained compound. Coarser grained compounds have a smaller grainsize number and could damage the paint. After polishing with a compound, coat with wax to restore the original luster. Frequent polishing with a compound or an incorrect polishing technique will result in removing the paint layer and exposing the undercoat. When in doubt, it is always best to contact your Saab dealer or an auto paint specialist.

NOTE

Be careful not to block the windshield washer nozzles with wax when waxing the vehicle.

■ Cleaning aluminum wheels

• Promptly wipe the aluminum wheels clean of any kind of grime or agent. If dirt is left on too long, it may be difficult to clean off.

• Do not use soap containing grit to clean the wheels. Be sure to use a neutral cleaning agent, and later rinse thoroughly with water. Do not clean the wheels with a stiff brush or expose them to a high-speed washing device.

• Clean the vehicle (including the aluminum wheels) with water as soon as possible when it has been splashed with sea water, exposed to sea breezes, or driven on roads treated with salt or other agents.

Corrosion protection

Your Saab has been designed and built to resist corrosion. Special materials and protective finishes have been used on most parts of the vehicle to help maintain fine appearance, strength, and reliable operation.

Most common causes of corrosion

The most common causes of corrosion are:

1. The accumulation of moisture retaining dirt and debris in body panel sections, cavities, and other areas.

2. Damage to paint and other protective coatings caused by gravel and stone chips or minor accidents.

Corrosion is accelerated on the vehicle when:

1. It is exposed to road salt or dust control chemicals, or used in coastal areas where there is more salt in the air, or in areas where there is considerable industrial pollution.

2. It is driven in areas of high humidity, especially when temperatures range just above freezing.

3. Dampness in certain parts of the vehi-

cle remains for a long time, even though other parts of the vehicle may be dry.4. High temperatures will cause corrosion to parts of the vehicle which cannot dry quickly due to lack of proper ventilation.

■ To help prevent corrosion

Wash the vehicle regularly to prevent corrosion of the body and suspension components. Also, wash the vehicle promptly after driving on any of the following surfaces:

• roads that have been salted to prevent them from freezing in winter

- mud, sand, or gravel
- coastal roads

After the winter has ended, it is recommended that the underbody be given a very thorough washing.

Before the beginning of winter, check the condition of underbody components, such as the exhaust system, fuel and brake lines, brake cables, suspension, steering system, floor pan, and fenders. If any of them are found to be rusted, they should be given an appropriate rust prevention treatment or should be replaced. Contact your Saab dealer to perform this kind of maintenance and treatment if you need assistance. Repair chips and scratches in the paint as soon as you find them.

Check the interior of the vehicle for water and dirt accumulation under the floor mats because that could cause corrosion. Occasionally check under the mats to make sure the area is dry.

Keep your garage dry. Do not park your vehicle in a damp, poorly ventilated garage. In such a garage, corrosion can be caused by dampness. If you wash the vehicle in the garage or put the vehicle into the garage when wet or covered with snow, that can cause dampness.

If your vehicle is operated in cold weather and/or in areas where road salts and other corrosive materials are used, the door hinges and locks, trunk lid lock, and hood latch should be inspected and lubricated periodically.

Cleaning the interior

Use a soft, damp cloth to clean the climate control panel, audio equipment, instrument panel, center console, combination meter panel, and switches. (Do not use organic solvents.)

Seat fabric

Remove loose dirt, dust or debris with a vacuum cleaner. If the dirt is caked on the fabric or hard to remove with a vacuum cleaner, use a soft blush then vacuum it. Wipe the fabric surface with a tightly wrung cloth and dry the seat fabric thoroughly. If the fabric is still dirty, wipe using a solution of mild soap and lukewarm water then dry thoroughly.

If the stain does not come out, try a commercially-available fabric cleaner. Use the cleaner on a hidden place and make sure it does not affect the fabric adversely. Use the cleaner according to its instructions.

NOTE

When cleaning the seat, do not use benzine, paint thinner, or any similar materials.

■ Leather seat materials (seating surfaces)

The leather used by Saab is a high quality natural product which will retain its distinctive appearance and feel for many years with proper care.

Allowing dust or road dirt to build up on the surface can cause the material to become brittle and to wear prematurely. Regular cleaning with a soft, moist, natural fiber cloth should be performed monthly, taking care not to soak the leather or allow water to penetrate the stitched seams.

A mild detergent suitable for cleaning woolen fabrics may be used to remove difficult dirt spots, rubbing with a soft, dry cloth afterwards to restore the luster. If your Saab is to be parked for a long time in bright sunlight, it is recommended that the seats and headrests be covered, or the windows shaded, to prevent fading or shrinkage.

Minor surface blemishes or bald patches may be treated with a commercial leather spray lacquer. You will discover that each leather seat section will develop soft folds or wrinkles, which is characteristic of genuine leather.

Synthetic leather upholstery

The synthetic leather material used on the Saab may be cleaned using mild soap or detergent and water, after first vacuuming or brushing away loose dirt. Allow the soap to soak in for a few minutes and wipe off with a clean, damp cloth. Commercial foam-type cleaners suitable for synthetic leather materials may be used when necessary.

NOTE

Strong cleaning agents such as solvents, paint thinners, window cleaner or gasoline must never be used on leather or synthetic interior materials.

Climate control panel, audio panel, instrument panel, console panel, and switches

Use a soft, damp cloth to clean the climate control panel, audio equipment, instrument panel, center console, combination meter panel, and switches.

NOTE

Do not use organic solvents such as paint thinners or gasoline, or strong cleaning agents that contain those solvents.

______ ______ ______ ______ ______ ______

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Maintenance and service

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Maintenance schedule

The scheduled maintenance items required to be serviced at regular intervals are shown in the "Saab Warranty and Service Record Booklet".

For details of your maintenance schedule, read the separate "Saab Warranty and Service Record Booklet".

Maintenance precautions

When maintenance and service are required, it is recommended that all work be done by an authorized Saab dealer.

If you perform maintenance and service by yourself, you should familiarize yourself with the information provided in this section on general maintenance and service for your Saab.

Incorrect or incomplete service could cause improper or unsafe vehicle operation. Any problems caused by improper maintenance and service performed by you are not eligible for warranty coverage.

- Testing of an All-Wheel Drive vehicle must NEVER be performed on a single two-wheel dynamometer or similar apparatus. Attempting to do so will result in transmission damage and in uncontrolled vehicle movement and may cause an accident or injuries to persons nearby.
- Always select a safe area when performing maintenance on your vehicle.

- Always be very careful to avoid injury when working on the vehicle. Remember that some of the materials in the vehicle may be hazardous if improperly used or handled, for example, battery acid.
- Your vehicle should only be serviced by persons fully competent to do so. Serious personal injury may result to persons not experienced in servicing vehicles.
- Always use the proper tools and make certain that they are well maintained.
- Never get under the vehicle supported only by a jack. Always use a safety stands to support the vehicle.
- Never keep the engine running in a poorly ventilated area, such as a garage or other closed areas.
- Do not smoke or allow open flames around the fuel or battery. This will cause a fire.
- Because the fuel system is under pressure, replacement of the fuel filter should be performed only by your Saab dealer.

11-4 Maintenance and service

- Wear adequate eye protection to guard against getting oil or fluids in your eyes. If something does get in your eyes, thoroughly wash them out with clean water.
- Do not tamper with the wiring of the SRS airbag system or seatbelt pretensioner system, or attempt to take its connectors apart, as that may activate the system or it can render it inoperative. The wiring and connectors of these systems are yellow for easy identification. NEVER use a circuit tester for these wiring.

If your SRS airbag or seatbelt pretensioner needs service, consult your nearest Saab dealer.

Before checking or servicing in the engine compartment

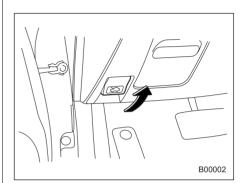
• Always stop the engine and set the parking brake firmly to prevent the vehicle from moving.

- Always let the engine cool down. Engine parts become very hot when the engine is running and remain hot for some time after the engine is stopped.
- Do not spill engine oil, engine coolant, brake fluid or any other fluid on hot engine components. This may cause a fire.
- Always remove the key from the ignition switch. When the ignition switch is in the "ON" position, the cooling fan may operate suddenly even when the engine is stopped.

When you do checking or servicing in the engine compartment while the engine is running

A running engine can be dangerous. Keep your fingers, hands, clothing, hair and tools away from the cooling fan, belts and any other moving engine parts. Removing rings, watches and ties is advisable.

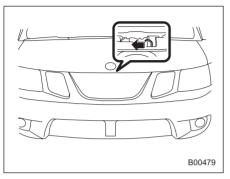
Engine hood



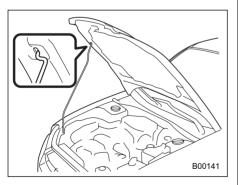
To open the hood:

1. If the wiper blades are lifted off the windshield, return them to their original positions.

2. Pull the hood release knob under the instrument panel.



3. Release the secondary hood release located under the front grille by moving the lever toward the left.



Lift up the hood, release the hood prop

from its retainer and put the end of the hood prop into the slot in the hood.

To close the hood:

1. Lift the hood slightly and remove the hood prop from the slot in the hood and return the prop to its retainer.

2. Lower the hood until it approaches approximately **12 in (30 cm)** from the closed position and let it drop.

After closing the hood, be sure the hood is securely locked.

If this does not close the hood, release it from a slightly higher position. Do not push the hood forcibly to close it. It could deform the metal.

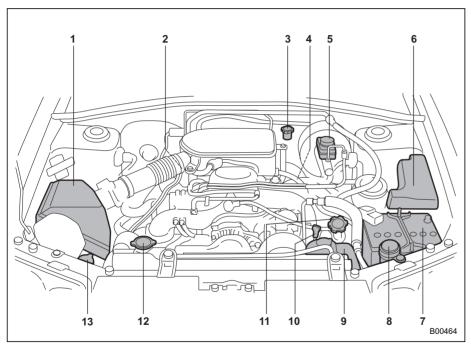
WARNING

Always check that the hood is properly locked before you start driving. If it is not, it might fly open while the vehicle is moving and block your view, which may cause an accident and serious bodily injury.

11-6 Maintenance and service

Engine compartment overview

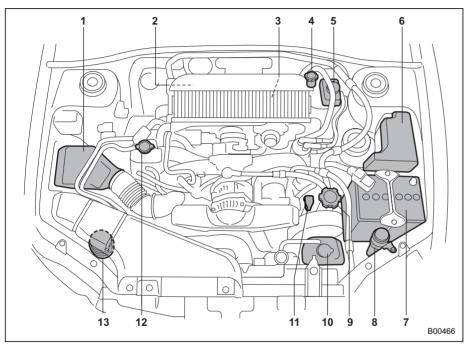
Non-turbo models



- 1) Air cleaner element (page 11-15)
- Manual transmission oil level gauge (MT) (page 11-19) or Differential gear oil level gauge (AT) (page 11-22)
- 3) Clutch fluid reservoir (page 11-26)
- 4) Automatic transmission fluid level gauge (page 11-20)
- 5) Brake fluid reservoir (page 11-25)
- 6) Fuse box (page 11-40)
- 7) Battery (page 11-39)
- 8) Windshield washer tank (page 11-35)
- 9) Engine coolant reservoir (page 11-13)
- 10) Engine coolant reservoir oil level gauge (page 11-8)
- 11) Engine oil level gauge filler cap (page 11-8)
- 12) Radiator cap (page 11-13)
- 13) Power steering fluid reservoir (page 11-24)

Maintenance and service 11-7

Turbo models



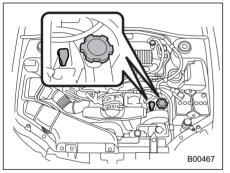
- 1) Air cleaner element (page 11-15)
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- 9) Engine oil filler cap (page 11-8)
- 10) Engine coolant reservoir (page 11-13)
- 11) Engine oil level gauge (page 11-8)
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Engine oil

Checking the oil level

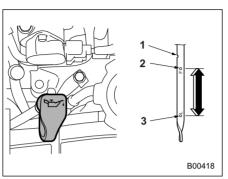
Check the engine oil level at each fuel stop.

1. Park the vehicle on a level surface and stop the engine.



2. Pull out the dipstick, wipe it clean, and insert it again.

3. Be sure the dipstick is correctly inserted until it stops with the graphic symbol " • • on its top appearing as shown in the illustration.



1) Notch

2) Upper level

3) Lower level

4. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil to bring the level up to the upper level.

- Use only engine oil with the recommended grade and viscosity.
- Be careful not to spill engine oil when adding it. If oil touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If engine oil gets on the exhaust pipe, be sure to wipe it off.

If you check the oil level just after stopping the engine, wait a few minutes for the oil to drain back into the oil pan before checking the level.

Just after driving or while the engine is warm, the engine oil level reading may be in a range between the upper level and the notch mark. This is caused by thermal expansion of the engine oil.

To prevent overfilling the engine oil, do not add any additional oil above the upper level when the engine is cold.

Changing the oil and oil filter

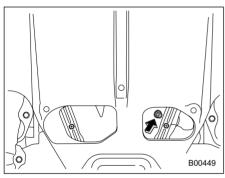
Change the oil and oil filter according to the maintenance schedule in the "Saab Warranty and Service Record Booklet". The engine oil and oil filter must be changed more frequently than listed in the maintenance schedule when driving on dusty roads, when short trips are frequently made, or when driving in extremely cold whether.

1. Warm up the engine by letting the engine idle for approximately 10 minutes to ease draining the engine oil.

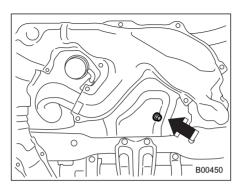
2. Park the vehicle on a level surface and stop the engine.

3. Remove the oil filler cap.

Do not touch the exhaust manifold or turbocharger. These get very hot when the engine has been running.



Turbo_models



Non-turbo models

4. Drain out the engine oil by removing the drain plug while the engine is still warm. The used oil should be drained into an appropriate container and disposed of properly.

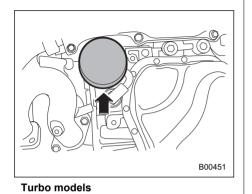
- Be careful not to burn yourself with hot engine oil.
- Do not spill oil on hot parts of the engine as this could cause a fire. Used engine oil is particulary flammable.

- Prolonged and repeated exposure of the skin to engine oil can cause serious skin disorders. The risk of cancer cannot be ruled out.
- Wash the affected area thoroughly with soap and water after any contact.
- Keep oil out of the reach of children.
- Protect the environment. Do not dispose of oil into the ground or down a drain. Dispose of all used oil and oil filters at an appropriate disposal facility.

5. Wipe the seating surface of the drain plug with a clean cloth and tighten it securely with a new sealing washer after the oil has completely drained out.

6. Remove under cover.

11-10 Maintenance and service



Non-turbo models

7. Remove the oil filter with an oil filter wrench.

8. Before installing a new genuine Saab oil filter, apply a thin coat of engine oil to the seal.

9. Clean the rubber seal seating area of the bottom of engine and install the genuine Saab oil filter by hand turning. Be careful not to twist or damage the seal.

10. Tighten the oil filter by the amount indicated in the following table after the seal makes contact with the bottom of engine.

Oil filter color	Amount of rotation
Black	1 rotation
White	2/3 – 3/4 rotation

Please see your Saab dealer for correct oil filter information for your vehicle.

- Never over tighten the oil filter because that can result in an oil leak.
- Thoroughly wipe off any engine oil that has spilled over the exhaust pipe and/or under-cover. If left unremoved, the oil could catch fire.

11.Reinstall under cover.

12.Pour engine oil through the filler neck.

Oil capacity (guideline):

4.2 US qt (4.0 liters, 3.5 Imp qt)

The oil quantity indicated above is only guideline.

The necessary quantity of oil depends on the quantity of oil that has been drained. The quantity of drained oil differs slightly depending on the temperature of the oil and the time the oil is left flowing out. After refilling the engine with oil, therefore, you must the dipstick to confirm that the level is correct.

13.Start the engine and make sure that no oil leaks appear around the filter's rubber seal and drain plug.

14. Run the engine until it reaches the normal operating temperature. Then stop the engine and wait a few minutes to allow the oil to drain back. Check the oil level again and if necessary, add more engine oil.

Be careful not to spill engine oil when adding it. If oil touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire.

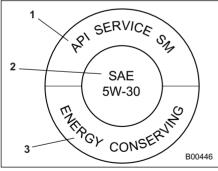
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Recommended grade and viscosity

Oil grade:

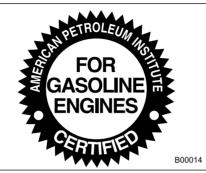
ILSAC GF-4, which can be identified with the ILSAC certification mark (Starburst mark) or API classification SM with the words "ENERGY CONSERVING"

These recommended oil grades can be identified by looking for either or both of the following marks displayed on the oil container.



API Service label

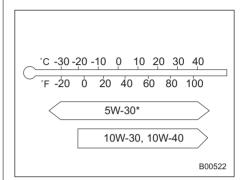
- 1) Indicates the oil quality by API designations
- 2) Indicates the SAE oil viscosity no.
- Indicates that the oil has fuel saving capabilities



ILSAC_Certification Mark (Starburst Mark)

In choosing an oil, you want the proper quality and viscosity, as well as one that will add to fuel economy. The following table lists the recommended viscosities and applicable temperatures.

When adding oil, different brands may be used together as long as they are the same API classification and SAE viscosity as those recommended by Saab.



SAE viscosity no. and applicable temperature

*: 5W-30 is recommended.

Engine oil viscosity (thickness) affects fuel economy. Oils of lower viscosity provide better fuel economy. However, in hot weather, oil of higher viscosity is required to properly lubricate the engine.

CAUTION

Use only engine oil with the recommended grade and viscosity.

Recommended grade and viscosity under severe driving conditions

If the vehicle is used in desert areas, in ar-

- CONTINUED -

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eas with very high temperatures, or used for heavy-duty applications such as towing a trailer, use of oil with the following grade and viscosities is recommended.

API classification SM (or SL):

SAE viscosity no.: 30, 40, 10W-50, 20W-40, 20W-50

Synthetic oil

You can use synthetic engine oil that meets the same requirements given for conventional engine oil. When using synthetic oil, you must use oil of the same classification, viscosity and grade shown in this owner's manual, and must follow the oil and filter changing intervals shown in the maintenance schedule.

Cooling system

Never attempt to remove the radiator cap until the engine has been shut off and has cooled down completely. Since the coolant is under pressure, you may suffer serious burns from a spray of boiling hot coolant when the cap is removed.

• The cooling system has been filled at the factory with a high quality, corrosion-inhibiting, yeararound coolant which provides protection against freezing down to -33°F (-36°C). For adding, use genuine Saab coolant or an equivalent: a mixture of 50% soft water and 50% ethylene-glycol basis coolant. Use of improper coolants may result in corrosion in the cooling system. It is important to maintain protection against freezing and corrosion, even if freezing temperatures are not expected. Never mix different kinds of coolant.

• Do not splash the engine coolant over painted parts. The alcohol contained in the engine coolant may damage the paint surface.

■ Cooling fan, hose and connections

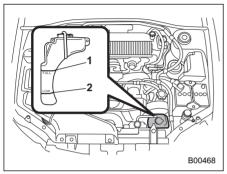
Your vehicle employs an electric cooling fan which is thermostatically controlled to operate when the engine coolant reaches a specific temperature.

If the radiator cooling fan does not operate even when the engine coolant temperature gauge exceeds the normal operating range, the cooling fan circuit may be defective. Check the fuse and replace it if necessary. If the fuse is not blown, have the cooling system checked by your Saab dealer.

If frequent addition of coolant is necessary, there may be a leak in the engine cooling system. It is recommended that the cooling system and connections be checked for leaks, damage, or looseness.

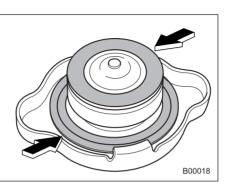
Engine coolant

▼ Checking the coolant level



- 1) "FULL" level mark
- 2) "LOW" level mark

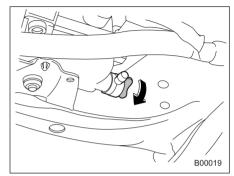
Check the coolant level at each fuel stop. 1. Check the coolant level on the outside of the reservoir while the engine is cool. 2. If the level is close to or lower than the "LOW" level mark, add coolant up to the "FULL" level mark. If the reserve tank is empty, remove the radiator cap and refill as required.



3. After refilling the reserve tank and the radiator, reinstall the caps and check that the rubber gaskets inside the radiator cap are in the proper position.

- Be careful not to spill engine coolant when adding it. If coolant touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If engine coolant gets on the exhaust pipe, be sure to wipe it off.
- Do not splash the engine coolant over painted parts. The alcohol contained in the engine coolant may damage the paint surface.

Changing the coolant



Always add genuine cooling system conditioner whenever the coolant is replaced. Change the engine coolant and add genuine cooling system conditioner using the following procedures according to the maintenance schedule.

1. Remove the under cover.

2. Place a proper container under the drain plug and loosen the drain plug.

3. Loosen the radiator cap to drain the coolant from the radiator. Then drain the coolant from the reserve tank. Tighten the drain plug securely.

NOTE (Turbo model only)

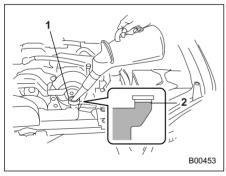
The cap (without tabs) on top of the radiator does not need to be removed. To add coolant, remove the cap (with tabs)

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on the coolant tank on top of the engine.

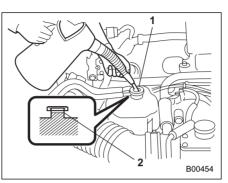
Never attempt to remove the radiator cap until the engine has been shut off and has cooled down completely. Since the coolant is under pressure, you may suffer serious burns from a spray of boiling hot coolant when the cap is removed.

4. Install the under cover.



Non-turbo models

- 1) Filler neck
- 2) Fill up to this level



Turbo models

- 1) Filler neck
- 2) Fill up to this level

5. Slowly pour the coolant and fill up to just below the filler neck, allowing enough room to add genuine cooling system conditioner in the radiator. Add genuine cooling system conditioner until the coolant level reaches the filler neck. Do not pour the coolant too quickly, as this may lead to insufficient air bleeding and trapped air in the system.

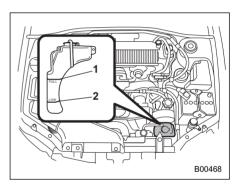
Guideline of coolant quantity (including coolant in reservoir tank):

Non-turbo models:

MT. 7.4 US qt (7.0 liters, 6.2 lmp qt) AT. 7.3 US qt (6.9 liters, 6.1 lmp qt)

Turbo models:

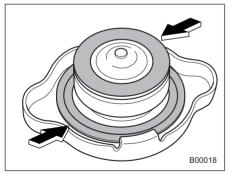
MT. 8.1 US qt (7.7 liters, 6.8 lmp qt) AT. 8.0 US qt (7.6 liters, 6.7 lmp qt)



"FULL" level mark
 "LOW" level mark

- Be careful not to spill engine coolant when adding it. If coolant touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If engine coolant gets on the exhaust pipe, be sure to wipe it off.
- Do not splash the engine coolant over painted parts. The alcohol contained in the engine coolant may damage the paint surface.

6. Pour the coolant and fill to the reservoir tank's "FULL" level mark.



7. Put the radiator cap back on and tighten firmly. At this time, make sure that the rubber gasket in the radiator cap is correctly in place.

8. Start and run the engine for more than five minutes at 2,000 to 3,000 rpm.

9. Stop the engine and wait until the coolant cools down (122 to $140^{\circ}F$ [50 to $60^{\circ}C$]). If there is any loss of coolant, add coolant to the radiator's filler neck and to the reserve tank's "FULL" level.

10.Put the radiator cap and reservoir cap back on and tighten firmly.

Air cleaner element

The air cleaner element functions as a filter screen. When the element is perforated or removed, engine wear will be excessive and engine life shortened.

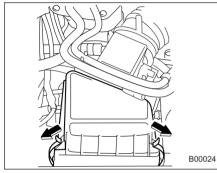
The air cleaner element is a viscous type. It is unnecessary to clean or wash the element.

Do not operate the engine with the air cleaner element removed. The air cleaner element not only filters intake air but also stops flames if the engine backfires. If the air cleaner element is not installed when the engine backfires, you could be burned.

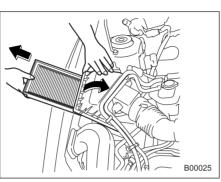
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Replacing the air cleaner element

▼ Turbo models



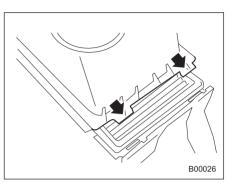
1. Unsnap the two clamps holding the air cleaner case cover.



Air cleaner case cover
 Air cleaner element

2. Open the air cleaner case cover and remove the air cleaner element.

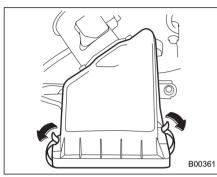
3. Clean the inside of the air cleaner cover and case with a damp cloth and install a new air cleaner element.



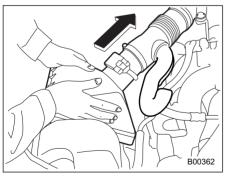
4. To install the air cleaner case cover, insert the two projections on the air cleaner case cover into the slits on the air cleaner case and then snap the two clamps on the air cleaner case cover.

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▼ Non-turbo models

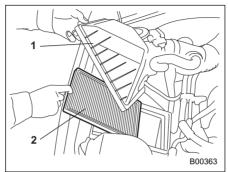


1. Unsnap the two clamps holding the air cleaner case cover.



2. Push the air cleaner case cover in the

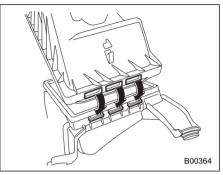
direction of the arrow shown in the drawing.



Air cleaner case cover
 Air cleaner element

3. Open the air cleaner case cover and remove the air cleaner element.

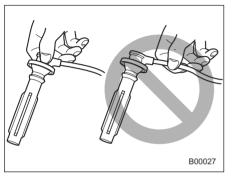
4. Clean the inside of the air cleaner cover and case with a damp cloth and install a new air cleaner element.



5. To install the air cleaner case cover, insert the three projections on the air cleaner case into the slits on the air cleaner case cover and then snap the two clamps on the air cleaner case cover.

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Spark plugs



It may be difficult to replace the spark plugs. It is recommended that you have the spark plugs replaced by your Saab dealer.

The spark plugs should be replaced according to the maintenance schedule in the "Saab Warranty and Service Record Booklet".

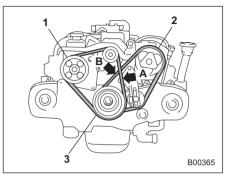
- When disconnecting the spark plug cables, always grasp the spark plug cap, not the cables.
- Make sure the cables are replaced in the correct order.

Recommended spark plugs

Non-turbo models: FR5AP-11 (NGK) Turbo models:

ILFR6B (NGK)

Drive belts



- 1) Power steering pump pulley
- 2) Air conditioner compressor pulley

3) Crank pulley

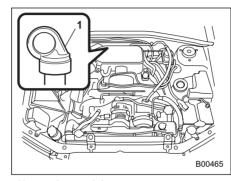
The alternator, power steering pump, and air conditioner compressor depend on drive belts. Satisfactory performance requires that belt tension be correct.

To check belt tension, place a straightedge (ruler) across two adjacent pulleys and apply a force of 22 lbs (98 N, 10 kg) midway between the pulleys by using a spring scale. Belt deflection should be the amount specified. If a belt is loose, cracked, or worn, contact your Saab dealer.

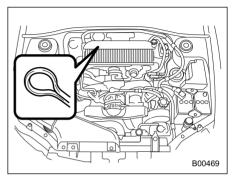
		in (mm)	
	Deflection		
	New belt	Used belt	
A	0.28 – 0.35 (7.0 – 9.0)	0.35 – 0.43 (9.0 – 11.0)	
В	0.30 – 0.33 (7.5 – 8.5)	0.35 – 0.40 (9.0 – 10.0)	

Manual transmission oil

Checking the oil level



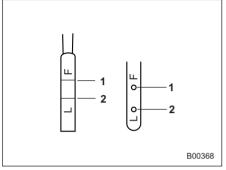
Non-turbo model
1) Yellow handle



Turbo model

1. Park the vehicle on a level surface and stop the engine.

2. Pull out the dipstick, wipe it clean, and insert it again.



- 1) Upper level
- 2) Lower level

3. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil through the dipstick hole to bring the level up to the upper level.

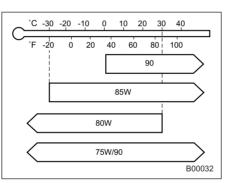
Be careful not to spill manual transmission oil when adding it. If oil touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If oil gets on the exhaust pipe, be sure to wipe it off.

Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

Oil grade:

API classification GL-5



SAE viscosity no. and applicable temperature

Automatic transmission fluid

Checking the fluid level

The automatic transmission fluid expands largely as its temperature rises; the fluid level differs according to fluid temperature. Therefore, there are two different scales for checking the level of hot fluid and cold fluid on the dipstick.

Though the fluid level can be checked without warming up the fluid on the "COLD" range, we recommend checking the fluid level when the fluid is at operating temperature.

Be careful not to spill automatic transmission fluid when adding it. If automatic transmission fluid touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If automatic transmission fluid gets on the exhaust pipe, be sure to wipe it off.

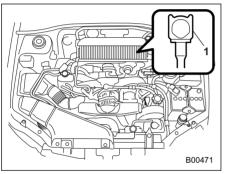
Checking the fluid level when the fluid is hot

1. Drive the vehicle several miles to raise the temperature of the transmission fluid

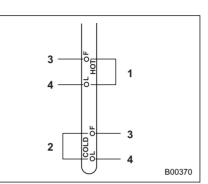
up to normal operating temperature; 158 to 176°F (70 to 80°C) is normal.

2. Park the vehicle on a level surface and set the parking brake.

3. First shift the selector lever in each position. Then shift it in the "P" position, and run the engine at idling speed.



1) Yellow handle



1) HOT range

2) COLD range

3) Upper level

4) Lower level

4. Pull out the dipstick and check the fluid level on the gauge. If it is below the lower level on the "HOT" range, add the recommended automatic transmission fluid up to the upper level.

▼ Checking the fluid level when the fluid is cold

When the fluid level has to be checked without time to warm up the automatic transmission, check to see that the fluid level is between the lower level and upper level on the "COLD" range. If it is below that range, add fluid up to the upper level. Be careful not to overfill.

Recommended fluid

Use one of the following types of automatic transmission fluid.

IDEMITSU ATF HP Castrol Transmax J Pennzoil ATF-J* * Available only in the USA (except Alaska and Hawaii)

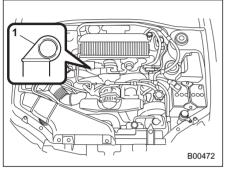
NOTE

Using any non-specified type of automatic transmission fluid could result in damage inside the transmission. When replacing the automatic transmission fluid, be sure to use a fluid of the types specified above.

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Front differential gear oil (AT vehicles)

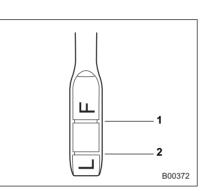
Checking the oil level



1) Yellow handle

1. Park the vehicle on a level surface and stop the engine.

2. Pull out the dipstick, wipe it clean, and insert it again.



1) Upper level

2) Lower level

3. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil to bring the level up to the upper level.

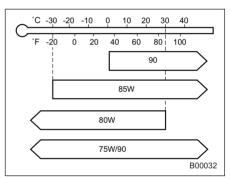
Be careful not to spill front differential gear oil when adding it. If oil touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If oil gets on the exhaust pipe, be sure to wipe it off.

Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

Oil grade:

API classification GL-5

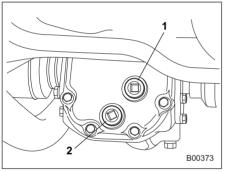


SAE viscosity no. and applicable temperature

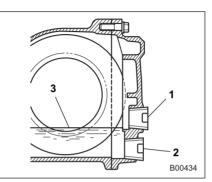
Rear differential gear oil

Checking the gear oil level

Your vehicle may be equipped with a rear differential protector. The differential protector provides protection to the rear differential assembly during off-road use. Removal of the rear differential protector is not required when checking the oil level.



- 1) Filler plug
- 2) Drain plug



- 1) Filler hole
- 2) Drain hole
- 3) Oil level

Remove the plug from the filler hole and check the oil level. The oil level should be kept even with the bottom of the filler hole. If the oil level is below the bottom edge of the hole, add oil through the filler hole to raise the level.

CAUTION

- Be careful not to spill rear differential gear oil when adding it. If rear differential gear oil touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If rear differential gear oil gets on the exhaust pipe, be sure to wipe it off.
- If the vehicle requires frequent refilling, there may be an oil leak. If you suspect a problem, have the vehicle checked at your Saab dealer.

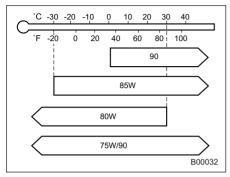
Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

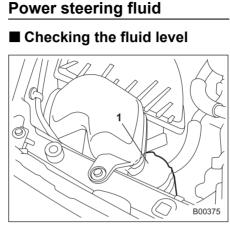
Oil grade:

API classification GL-5

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SAE viscosity no. and applicable temperature

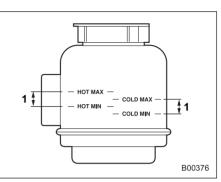


1) Reservoir tank

The power steering fluid expands greatly as its temperature rises; the fluid level differs according to fluid temperature. Therefore, the reservoir tank has two different checking ranges for hot and cold fluids.

Check the power steering fluid level monthly.

1. Park the vehicle on a level surface, and stop the engine.



1) Specified range

2. Check the fluid level of the reservoir tank.

When the fluid is hot after the vehicle has been run: Check that the oil level is between "HOT MIN" and "HOT MAX" on the surface of the reservoir tank.

When the fluid is cool before the vehicle is run: Check that the oil level is between "COLD MIN" and "COLD MAX" on the surface of the reservoir tank.

3. If the fluid level is lower than the applicable "MIN" line, add the recommended fluid as necessary to bring the level between the "MIN" and "MAX" line.

If the fluid level is extreme low, it may indicate possible leakage. Consult your Saab dealer for an inspection.

WARNING

Be careful not to burn yourself because the fluid may be hot.

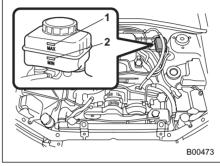
- When power steering fluid is being added, use only clean fluid, and be careful not to allow any dirt into the tank. And never use different brands together.
- Avoid spilling fluid when adding it in the tank.
- Be careful not to spill power steering fluid when adding it. If power steering fluid touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If power steering fluid gets on the exhaust pipe, be sure to wipe it off.

Recommended fluid

"Dexron III" Type Automatic Transmission Fluid

Brake fluid

Checking the fluid level



- 1) "MAX" level mark
- 2) "MIN" level mark

Check the fluid level monthly.

Check the fluid level on the outside of the reservoir. If the level is below "MIN", add the recommended brake fluid to "MAX". Use only brake fluid from a sealed container.

- Never let brake fluid contact your eyes because brake fluid can be harmful to your eyes. If brake fluid gets in your eyes, immediately flush them thoroughly with clean water. For safety, when performing this work, wearing eye protection is advisable.
- Brake fluid absorbs moisture from the air. Any absorbed moisture can cause a dangerous loss of braking performance.
- If the vehicle requires frequent refilling, there may be a leak. If you suspect a problem, have the vehicle checked at your Saab dealer.

- Never use different brands of brake fluid together. Also, avoid mixing DOT 3 and DOT 4 brake fluids even if they are of the same brand.
- When adding brake fluid, be careful not to allow any dirt into the reservoir.

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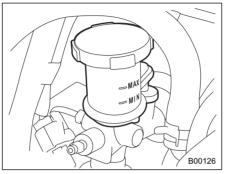
- Never splash the brake fluid over painted surfaces or rubber parts. Alcohol contained in the brake fluid may damage them.
- Be careful not to spill brake fluid when adding it. If brake fluid touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If brake fluid gets on the exhaust pipe, be sure to wipe it off.

Recommended brake fluid

FMVSS No. 116, fresh DOT 3 or DOT 4 brake fluid

Clutch fluid (MT vehicles)

Checking the fluid level



Check the fluid level on the outside of the reservoir. If the level is below "MIN" level mark, add the recommended clutch fluid to "MAX" level mark.

Use only clutch fluid from a sealed container.

Never let clutch fluid contact your eyes because clutch fluid can be harmful to your eyes. If clutch fluid gets in your eyes, immediately flush them thoroughly with clean water. For safety, when performing this work, wearing eye protection is advisable.

- Clutch fluid absorbs moisture from the air. Any absorbed moisture can cause improper clutch operation.
- If the vehicle requires frequent refilling, there may be a leak. If you suspect a problem, have the vehicle checked at your Saab dealer.
- Never use different brands of clutch fluid together.
- When clutch fluid is added, be careful not to allow any dirt into the tank.
- Never splash the clutch fluid over painted surfaces or rubber parts. Alcohol contained in the clutch fluid may damage them.

 Be careful not to spill clutch fluid when adding it. If clutch fluid touches the exhaust pipe, it may cause a bad smell, smoke, and/or a fire. If clutch fluid gets on the exhaust pipe, be sure to wipe it off.

Recommended clutch fluid

FMVSS No. 116, fresh DOT 3 or 4 brake fluid

Avoid mixing DOT 3 and DOT 4 brake fluids even if they are of the same brand.

Brake booster

If the brake booster does not operate as described in the following, have it checked by your Saab dealer.

1. With the engine off, depress the brake pedal several times, applying the same pedal force each time. The distance the pedal travels should not vary.

2. With the brake pedal depressed, start the engine. The pedal should move slightly down to the floor.

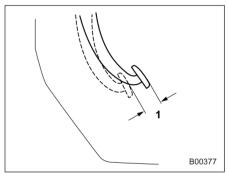
3. With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds. The pedal height should not change.

4. Start the engine again and run for approximately one minute then turn it off. Depress the brake pedal several times to check the brake booster. The brake booster operates properly if the pedal stroke decreases with each depression.

Brake pedal

Check the brake pedal free play and reserve distance according to the maintenance schedule in the "Saab Warranty and Service Record Booklet".

Checking the brake pedal free play

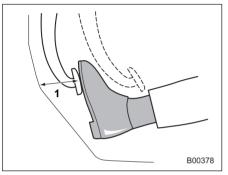


1) 0.04 - 0.12 in (1.0 - 3.0 mm)

Stop the engine and firmly depress the brake pedal several times. Lightly press the brake pedal down with one finger to check the free play with a force of less than 2 lbs (10 N, 1 kg).

If the free play is not within proper specification, contact your Saab dealer.

Checking the brake pedal reserve distance



1) More than 2.56 in (65 mm)

Depress the pedal with a force of approximately 66 lbs (294 N, 30 kg) and measure the distance between the upper surface of the pedal pad and the floor.

When the measurement is smaller than the specification, or when the pedal does not operate smoothly, contact with your Saab dealer.

Clutch pedal (MT vehicles)

Check the clutch pedal free play and reserve distance according to the maintenance schedule in the "Saab Warranty and Service Record Booklet".

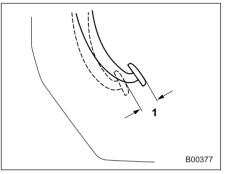
Checking the clutch function

Check the clutch engagement and disengagement.

1. With the engine idling, check that there are no abnormal noises when the clutch pedal is depressed, and that shifting into 1st or reverse feels smooth.

2. Start the vehicle by releasing the pedal slowly to check that the engine and transmission smoothly couple without any sign of slippage.

■ Checking the clutch pedal free play

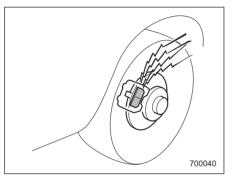


1) 0.16 - 0.51 in (4.0 - 13.0 mm)

Lightly press the clutch pedal down with your finger until you feel resistance, and check the free play.

If the free play is not within proper specification, contact your Saab dealer.

Replacement of brake pad and lining



The right front disc brake and the right rear disc brake have audible wear indicators on the brake pads. If the brake pads wear close to their service limit, the wear indicator makes a very audible scraping noise when the brake pedal is applied.

If you hear this scraping noise each time you apply the brake pedal, have the brake pads serviced by your Saab dealer as soon as possible.

If you continue to drive despite the scraping noise from the audible brake pad wear indicator, it will result in the need for costly brake rotor repair or replacement.

Breaking-in of new brake pads and linings

When replacing the brake pad or lining, use only genuine Saab parts. After replacement, the new parts must be broken in as follows:

▼ Brake pad and lining

While maintaining a speed of 30 to 40 mph (50 to 65 km/h), step on the brake pedal lightly. Repeat this five or more times.

▼ Parking brake lining

1. Drive the vehicle at a speed of approximately 22 mph (35 km/h).

2. With the parking brake release button pushed in, pull the parking brake lever SLOWLY and GENTLY. (Pulling with a force of approximately 33 lbs [147 N, 15 kg].)

3. Drive the vehicle for approximately 220 yards (200 meters) in this condition.

4. Wait 5 to 10 minutes for the parking

brake to cool down. Repeat this procedure.

5. Check the parking brake stroke. If the parking brake stroke is out of the specified range, adjust it by turning the adjusting nut located on the parking brake lever.

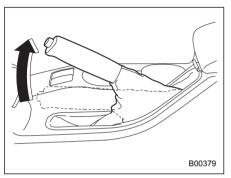
Parking brake stroke:

7 - 8 notches / 44 lbs (196 N, 20 kg)

A safe location and situation should be selected for break-in driving.

Pulling the parking brake lever too forcefully may cause the rear wheels to lock. To avoid this, be certain to pull the lever up slowly and gently.

Parking brake stroke



Check the parking brake stroke according to the maintenance schedule in the "Saab Warranty and Service Record Booklet". When the parking brake is properly adjusted, braking power is fully applied by pulling the lever up seven to eight notches gently but firmly (approximately 44 lbs [196 N, 20 kg]). If the parking brake lever stroke is not within the specified range, have the brake system checked and adjusted at your Saab dealer.

Tires and wheels

Types of tires

You should be familiar with type of tires present on your vehicle.

The factory-fitted tires are all-season tires except for the 17-inch tires that are optional on the Aero (those are summer tires).

▼ All season tires

All season tires are designed to provide an adequate measure of traction, handling and braking performance in year-round driving including snowy and icy road conditions. However all season tires do not offer as much traction performance as winter (snow) tires in heavy or loose snow or on icy roads.

All season tires are identified by "ALL SEASON" and/or "M+S" (Mud & Snow) on the tire sidewall.

▼ Summer tires

Summer tires are high-speed capability tires best suited for highway driving under dry conditions.

Summer tires are inadequate for driving on slippery roads such as on snow-covered or icy roads.

If you drive your vehicle on snow-covered or icy roads, we strongly recommend the use of winter (snow) tires. When installing winter tires, be sure to replace all four tires.

▼ Winter (snow) tires

Winter tires are best suited for driving on snow-covered and icy roads. However winter tires do not perform as well as summer tires and all season tires on roads other than snow-covered and icy roads.

■ Tire inspection

Check on a daily basis that the tires are free from serious damage, nails, and stones. At the same time, check the tires for abnormal wear.

Contact your Saab dealer immediately if you find any problem.

NOTE

• When the wheels and tires strike curbs or are subjected to harsh treatment as when the vehicle is driven on a rough surface, they can suffer damage that cannot be seen with the naked eye. This type of damage does not become evident until time has passed. Try not to drive over curbs, potholes or on other rough surfaces. If doing so is unavoidable, keep the vehicle's speed down to a walking pace or less, and approach the curbs as squarely as possible. Also, make sure the tires are not

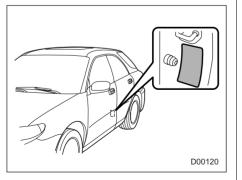
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pressed against the curb when you park the vehicle.

• If you feel unusual vibration while driving or find it difficult to steer the vehicle in a straight line, one of the tires and/or wheels may be damaged. Drive slowly to the nearest authorized Saab dealer and have the vehicle inspected.

■ Tire pressures and wear

Maintaining the correct tire pressures helps to maximize the tires' service lives and is essential for good running performance. Check and, if necessary, adjust the pressure of each tire (including the spare) at least once a month (for example, during a fuel stop) and before any long journey.



Check the tire pressures when the tires are cold. Use a pressure gauge to adjust the tire pressures to the values shown on the tire label. The tire label is located on the door pillar on the driver's side.

Driving even a short distance warms up the tires and increases the tire pressures. Also, the tire pressures are affected by the outside temperature. It is best to check tire pressure outdoors before driving the vehicle.

When a tire becomes warm, the air inside it expands, causing the tire pressure to increase. Be careful not to mistakenly release air from a warm tire to reduce its pressure.

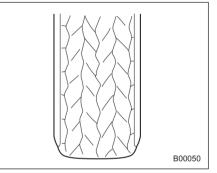
NOTE

The air pressure in a tire increases by approximately 4.3 psi (30 kPa, 0.3 kgf/cm²) when the tire becomes warm.
The tires are considered cold when the vehicle has been parked for at least three hours or has been driven less than one mile (1.6 km).

WARNING

Do not let air out of warm tires to adjust pressure. Doing so will result in low tire pressure. Incorrect tire pressures detract from controllability and ride comfort, and they cause the tires to wear abnormally.

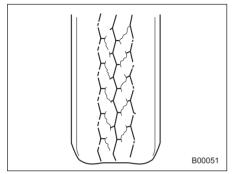
• Correct tire pressure (tread worn evenly)



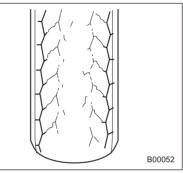
Roadholding is good, and steering is responsive. Rolling resistance is low, so fuel consumption is also lower.

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• Abnormally low tire pressure (tread worn at shoulders)



Rolling resistance is high, so fuel consumption is also higher. • Abnormally high tire pressure (tread worn in center)



Ride comfort is poor. Also, the tire magnifies the effects of road-surface bumps and dips, possibly resulting in vehicle damage.

If the label shows tire pressures for the vehicle when fully loaded and for the vehicle when towing a trailer, adjust the tire pressures to the values that match current loading conditions.

Driving at high speeds with excessively low tire pressures can cause the tires to deform severely and to rapidly become hot. A sharp increase in temperature could cause tread separation, and destruction of the tires. The resulting loss of vehicle control could lead to an accident.

Wheel balance

Each wheel was correctly balanced when your vehicle was new, but the wheels will become unbalanced as the tires become worn during use. Wheel imbalance causes the steering wheel to vibrate slightly at certain vehicle speeds and detracts from the vehicle's straight-line stability. It can also cause steering and suspension system problems and abnormal tire wear. If you suspect that the wheels are not correctly balanced, have them checked and adjusted by your Saab dealer. Also have them adjusted after tire repairs and after tire rotation.

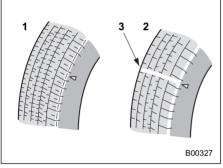
NOTE

Loss of correct wheel alignment* causes the tires to wear on one side and reduces the vehicle's running stability.

Contact your Saab dealer if you notice abnormal tire wear.

*: The suspension system is designed to hold each wheel at a certain alignment (relative to the other wheels and to the road) for optimum straight-line stability and cornering performance.

Wear indicators



- 1) New tread
- 2) Worn tread
- 3) Tread wear indicator

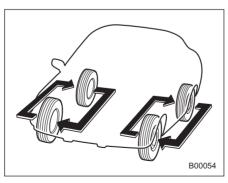
Each tire incorporates a tread wear indicator, which becomes visible when the depth of the tread grooves decreases to 0.063 in (1.6 mm). A tire must be replaced when the tread wear indicator appears as a solid band across the tread.

When a tire's tread wear indicator becomes visible, the tire is worn beyond the acceptable limit and must be replaced immediately. With a tire in this condition, driving at high speeds in wet weather can cause the vehicle to hydroplane. The resulting loss of vehicle control can lead to an accident.

NOTE

For safety, inspect tire tread regularly and replace the tires before their tread wear indicators become visible.

■ Tire rotation



Tire wear varies from wheel to wheel. To maximize the life of each tire and ensure that the tires wear uniformly, it is best to rotate the tires every 7,500 miles (12,500 km). Rotating the tires involves switching the front and rear tires on the right-hand side of the vehicle and similarly switching the front and rear tires on the left-hand side of the vehicle. (Each tire must be kept on its original side of the vehicle.)

Replace any damaged or unevenly worn tire at the time of rotation. After tire rotation, adjust the tire pressures and make sure the wheel nuts are correctly tightened.

After driving approximately 600 miles (1,000 km), check the wheel nuts again and retighten any nut that has become loose.

■ Tire replacement

The wheels and tires are important and integral parts of your vehicle's design; they cannot be changed arbitrarily. The tires fitted as standard equipment are optimally matched to the characteristics of the vehicle and were selected to give the best possible combination of running performance, ride comfort, and service life. It is essential for every tire to have a size and construction matching those shown on the tire la-

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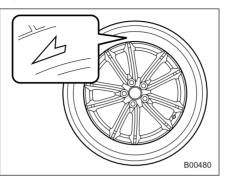
bel and to have a speed symbol and load index matching those shown on the tire label.

Using tires of a non-specified size detracts from controllability, ride comfort, braking performance, speedometer accuracy and odometer accuracy. It also creates incorrect body-to-tire clearances and inappropriately changes the vehicle's ground clearance.

All four tires must be the same in terms of manufacturer, brand (tread pattern), construction, and size. You are advised to replace the tires with new ones that are identical to those fitted as standard equipment.

For safe vehicle operation, Saab recommends replacing all four tires at the same time.





Unidirectional tires: Some tires have a specified direction of rotation. A tire of this type has an arrow or other mark on its side wall to indicate the direction of rotation. Install it so that the direction of rotation is correct when the vehicle is driven forward.

- All four tires must be the same in terms of manufacturer, brand (tread pattern), construction, degree of wear, speed symbol, load index and size. Mixing tires of different types, sizes or degrees of wear can result in damage to vehicle's power train. Use of different types or sizes of tires can also dangerously reduce controllability and braking performance and can lead to an accident.
- Use only radial tires. Do not use radial tires together with belted bias tires and/or bias-ply tires. Doing so can dangerously reduce controllability, resulting in an accident.

Wheel replacement

When replacing wheels due, for example, to damage, make sure the replacement wheels match the specifications of the wheels that are fitted as standard equipment. Replacement wheels are available from Saab dealers.

WARNING

Use only those wheels that are specified for your vehicle. Wheels not meeting specifications could interfere with brake caliper operation and may cause the tires to rub against the wheel well housing during turns. The resulting loss of vehicle control could lead to an accident.

NOTE

When any of the wheels is removed and replaced for tire rotation or to change a flat tire, always check the tightness of the wheel nuts after driving approximately 600 miles (1,000 km). If any nut is loose, tighten it to the specified torque.

Aluminum wheels

Aluminum wheels can be scratched and damaged easily. Handle them carefully to maintain their appearance, performance, and safety.

• When any of the wheels is removed and replaced for tire rotation or to change a flat, always check the tightness of the wheel nuts after driving approximately 600 miles (1,000 km). If any nut is loose, tighten it to the specified torque.

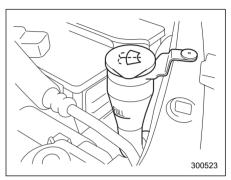
• Never apply oil to the threaded parts, wheel nuts, or tapered surface of the wheel.

• Never let the wheel rub against sharp protrusions or curbs.

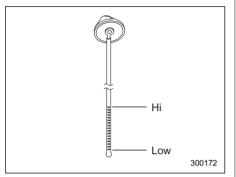
• Be sure to fit tire chains on uniformly and completely around the tire, otherwise the chains may scratch the wheel.

• When wheel nuts, balance weights, or the center cap is replaced, be sure to replace them with genuine Saab parts designed for aluminum wheels.

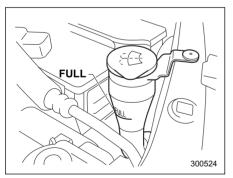
Windshield washer fluid



If you spray washer fluid on the windshield but the supply of washer fluid appears to diminish, check the level of washer fluid in the tank.



Washer fluid level gauge



Remove the washer tank filler cap, then check the fluid level indicated by the level gauge (attached to the inside of the cap). If the level is near the "Low" mark, add fluid until it reaches the "Hi" level on the level gauge or the "Full" mark on the tank.

Use windshield washer fluid. If windshield washer fluid is unavailable use clean water.

In areas where water freezes in winter, use an anti-freeze type windshield washer fluid.

If you fill the reservoir tank with a fluid with a different concentration from the one used previously, purge the old fluid from the piping between the reservoir tank and washer nozzles by operating the washer for a certain period of time. Otherwise, if the concentration of the fluid remaining in the piping is too low for the outside temperature, it may freeze and block the nozzles.

- Adjust the washer fluid concentration appropriately for the outside temperature. If the concentration is inappropriate, sprayed washer fluid may freeze on the windshield and obstruct your view, and the fluid may freeze in the reservoir tank.
- Never use engine coolant as washer fluid because it could cause paint damage.

Replacement of wiper blades

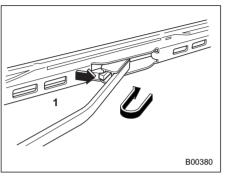
Grease, wax, insects, or other material on the windshield or the wiper blade results in jerky wiper operation and streaking on the glass. If you cannot remove the streaks after operating the windshield washer or if the wiper operation is jerky, clean the outer surface of the windshield (or rear window) and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaner. After cleaning, rinse the windshield and wiper blades with clean water. The windshield is clean if beads do not form when you rinse the windshield with water.

Do not clean the wiper blades with gasoline or a solvent, such as paint thinner or benzene. This will cause deterioration of the wiper blades.

If you cannot eliminate the streaking even after following this method, replace the wiper blades using the following procedures:

Windshield wiper blades assembly

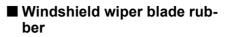
1. Raise the wiper arm off the windshield.

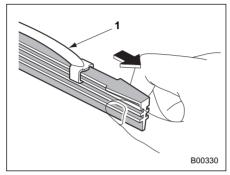


1) Stopper

2. Remove the wiper blade assembly by holding its pivot area and pushing it in the direction shown by the arrow while depressing the wiper blade stopper.

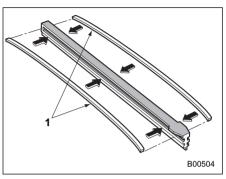
Install the wiper blade assembly to the wiper arm. Make sure that it locks in place.
 Hold the wiper arm by hand and slowly lower it in position.





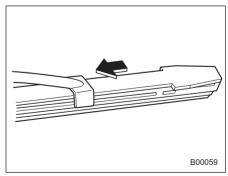
1) Metal support

1. Grasp the locked end of the blade rubber assembly and pull it firmly until the stoppers on the rubber are free of the metal support.



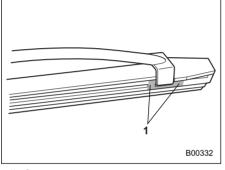
1) Metal spines

2. If the new blade rubber is not provided with two metal spines, remove the metal spines from the old blade rubber and install them in the new blade rubber.



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3. Align the claws of the metal support with the grooves in the rubber and slide the blade rubber assembly into the metal support until it locks.

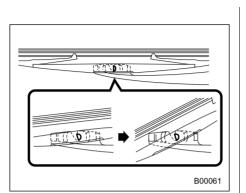




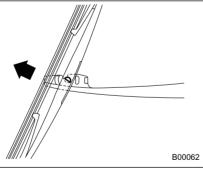
4. Be sure to position the claws at the end of the metal support between the stoppers on the rubber as shown. If the rubber is not retained properly, the wiper blade may scratch the windshield.

Rear window wiper blade assembly

1. Raise the wiper arm off the rear window.

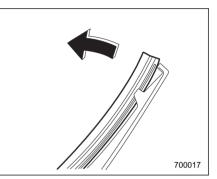


2. Turn the wiper blade assembly counterclockwise.

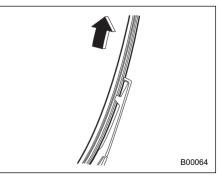


3. Pull the wiper blade assembly toward you to remove it from the wiper arm.

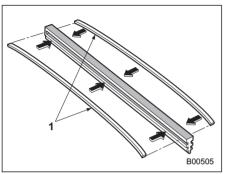
Rear window wiper blade rubber



1. Pull out the end of the blade rubber assembly to unlock it from the plastic support.

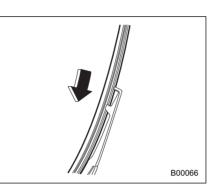


2. Pull the blade rubber assembly out of the plastic support.

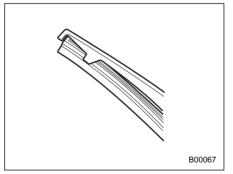


1) Metal spines

3. If the new blade rubber is not provided with two metal spines, remove the metal spines from the old blade rubber and install them in the new blade rubber.



4. Align the claws of the plastic support with the grooves in the blade rubber assembly, then slide the blade rubber assembly into place.



Securely retain both ends of the rubber with the stoppers on the plastic support

ends. If the rubber is not retained properly, the wiper may scratch the rear window glass.

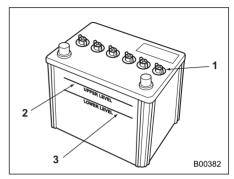
5. Install the wiper blade assembly to the wiper arm. Make sure that it locks in place.6. Hold the wiper arm by hand and slowly lower it in position.

Battery

- Before beginning work on or near any battery, be sure to extinguish all cigarettes, matches, and lighters. Never expose a battery to an open flame or electric sparks. Batteries give off a gas which is highly flammable and explosive.
- For safety, in case an explosion does occur, wear eye protection or shield your eyes when working near any battery. Never lean over a battery.
- Do not let battery fluid contact eyes, skin, fabrics, or paint because battery fluid is a corrosive acid. If battery fluid gets on your skin or in your eyes, immediately flush the area with water thoroughly. Seek medical help immediately if acid has entered the eyes.

If battery fluid is accidentally swallowed, immediately drink a large amount of milk or water, and seek medical attention immediately.

- To lessen the risk of sparks, remove rings, metal watchbands, and other metal jewelry. Never allow metal tools to contact the positive battery terminal and anything connected to it WHILE you are at the same time in contact with any other metallic portion of the vehicle because a short circuit will result.
- Keep everyone including children away from the battery.
- Charge the battery in a well-ventilated area.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.



1) Cap

2) Upper level

3) Lower level

It is unnecessary to periodically check the battery fluid level or periodically refill with distilled water.

However, if the battery fluid level is below the lower level, remove the cap. Fill to the upper level with distilled water.

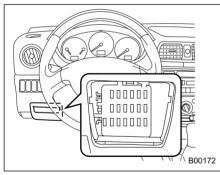
Never use more than 10 amperes when charging the battery because it will shorten battery life.

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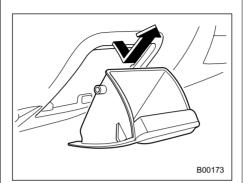
Fuses

Never replace a fuse with one having a higher rating or with material other than a fuse because serious damage or a fire could result.

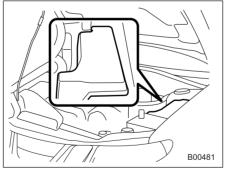
The fuses are designed to melt during an overload to prevent damage to the wiring harness and electrical equipment. The fuses are located in two fuse boxes.



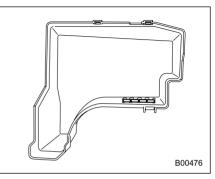
One is located under the instrument panel behind the coin tray on the driver's seat side.



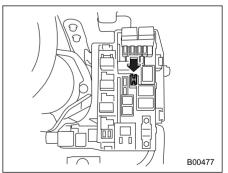
To remove the coin tray, open the cover and pull the coin tray out.



The other one is housed in the engine compartment.



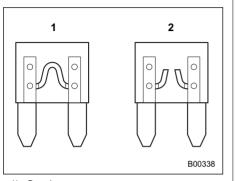
The spare fuses are stored in the main fuse box cover in the engine compartment.

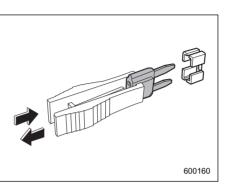


The fuse puller is stored in the main fuse box in the engine compartment.

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1) Good

2) Blown

If any lights, accessories or other electrical controls do not operate, inspect the corresponding fuse. If a fuse has blown, replace it.

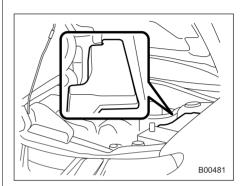
1. Turn the ignition switch to the "LOCK" position and turn off all electrical accessories.

2. Remove the cover.

3. Determine which fuse may be blown. The back side of each fuse box cover and the "Fuses and circuits" section in chapter 12 in this manual show the circuit for each fuse. Pull out the fuse with the fuse puller.
 Inspect the fuse. If it has blown, replace it with a spare fuse of the same rating.

6. If the same fuse blows again, this indicates that its system has a problem. Contact your Saab dealer for repairs.

Main fuse



Main fuse box

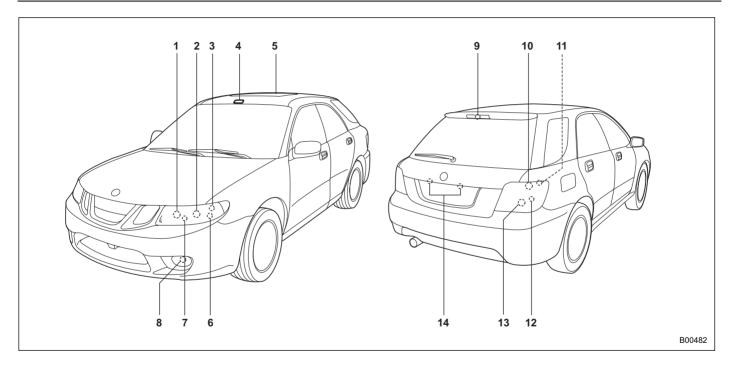
The main fuses are designed to melt during an overload to prevent damage to the wiring harness and electrical equipment. Check the main fuses if any electrical component fails to operate (except the starter motor) and other fuses are good. A melted main fuse must be replaced. Use only replacements with the same specified rating as the melted main fuse. If a main fuse blows after it is replaced, have the electrical system checked by your nearest Saab dealer.

Installation of accessories

Always consult your Saab dealer before installing fog lights or any other electrical equipment in your vehicle. Such accessories may cause the electronic system to malfunction if they are incorrectly installed or if they are not suited for the vehicle.

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Replacing bulbs



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		Wattage	Bulb No.
1)	Low beam head light		
	Premium Package vehicles	12V-35W	D2R
	Others	12V-55W	H1
2)	High beam head light	12V-60W	9005 (HB3)
3)	Front side marker light	12V-5W	W5W
4)	Spot light	12V-8W	_
5)	Room light	12V-8W	-
6)	Front turn signal	12V-21W (Amber)	WY21W (7440A)
7)	Parking light	12V-5W	W5W
8)	Front fog light	12V-57W	9006 (HB4)
9)	High mount stop light	12V-1.3W	LED
10)	Rear turn signal light	12V-21W (Amber)	WY21W (7440A)
11)	Cargo area light	12V-5W	_
12)	Brake/tail light	12V-21/5W	W21/5W (7443)
13)	Backup light	12V-16W	W16W (921)
14)	License plate light	12V-5W	W5W

Replace any bulb only with a new bulb of the specified wattage. Using a bulb of different wattage could result in a fire. HID headlight bulbs *

High-intensity-discharge (HID) bulbs are used for the low beams of the headlights. These HID bulbs use an extremely high voltage. To avoid the risk of an electric shock and resulting serious injury, you should not attempt to replace them. Neither should you attempt to replace the high-beam bulbs, remove/refit the headlight assemblies, or remove any headlight-assembly components. For replacement of the headlight bulbs (low-beam and highbeam), removal and installation of the headlight assemblies, and removal of headlight-assembly components, contact your Saab dealer. Ask your Saab dealer to check whether your vehicle is equipped with HID headlights.

Halogen headlight bulbs *

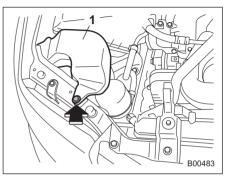
Halogen headlight bulbs become very hot while in use. If you touch the bulb surface with bare hands or greasy gloves, finger prints or grease on the bulb surface will develop into hot spots and cause the bulb to break. If there are finger prints or grease on the bulb surface, wipe them away with a soft cloth moistened with alcohol.

Ask your Saab dealer to check whether your vehicle is equipped with halogen headlights.

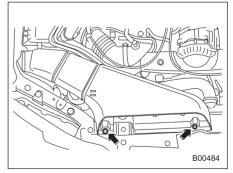
NOTE

- If headlight aiming is required, consult your Saab dealer for proper adjustment of the headlight aim.
- It may be difficult to replace the bulbs. Have your Saab dealer replace the bulbs if necessary.

Right-hand low beam light bulb



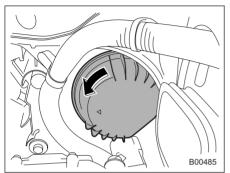
Non-turbo model
1) Air intake duct



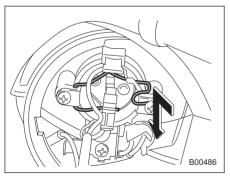
Turbo model

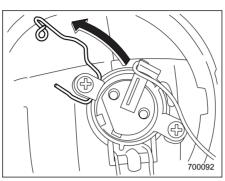
Maintenance and service 11-47

1. Remove the air intake duct mounting bolt, then remove the air intake duct.

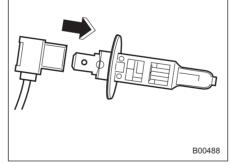


2. Remove the bulb cover by turning it counterclockwise.





3. Push the retainer spring in the direction of the arrow to remove it from the hook.

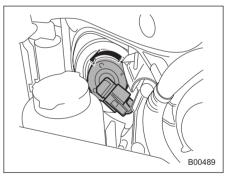


- 4. Pull the bulb out of the electrical connector. Replace the bulb with a new one.
- 5. Set the retainer spring securely.
- 6. Reconnect the electrical connector.

- 7. Install the bulb cover.
- Left-hand low beam light bulb

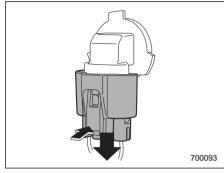
Replacement of the left-hand low beam light bulb requires removal of the battery and is thus dangerous. It must be performed by a Saab dealer.

▼ High beam light bulbs



1. Remove the bulb from the headlight assembly by turning it counterclockwise.

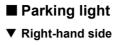
11-48 Maintenance and service

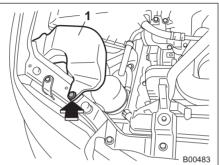


2. Remove the electrical connector from the bulb.

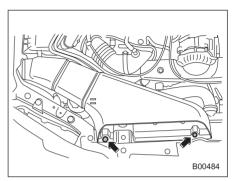
- 3. Replace the bulb with a new one.
- 4. Reconnect the electrical connector. At this time, be careful not to touch the bulb surface.

5. Install the bulb in the headlight assembly by turning it clockwise until it clicks.



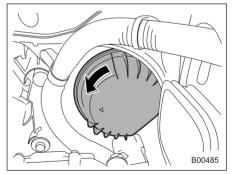


Non-turbo model
1) Air intake duct

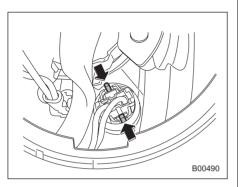


Turbo model

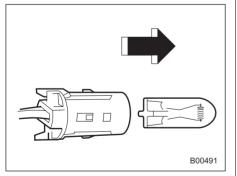
1. Remove the air intake duct mounting bolt, then remove the air intake duct.



2. Remove the bulb cover by turning it counterclockwise.



3. Hold the end of the parking light and remove the parking light.



4. Pull the bulb out of the socket. Install a new bulb.

5. Fit the bulb socket into the headlight assembly.

6. Install the bulb cover.

▼ Left-hand side

Replacement of the left-hand parking light bulb requires removal of the battery and is thus dangerous. It must be performed by a Saab dealer.

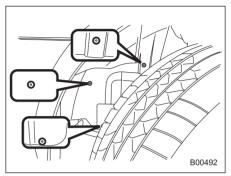
Front turn signal light and front side marker light bulbs

▼ Right-hand side

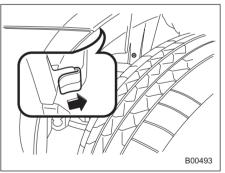
It may be difficult to replace the bulbs. Have your Saab dealer replace the bulbs if necessary.

▼ Left-hand side

1. Turn the steering wheel fully to the left.

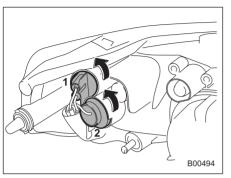


2. Undo the three clips at the bottom of the undercover beside the front-left wheel.

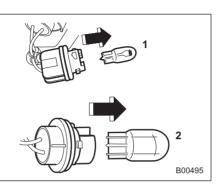


3. Undo the hook at the top of the undercover beside the front-left wheel.

11-50 Maintenance and service

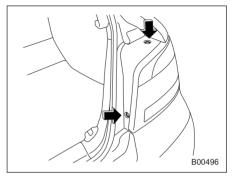


- 1) Front side marker light
- 2) Front turn signal light
- 4. Lift the undercover. Insert your hand under the undercover and feel for the front turn signal light and front side marker light with reference to the following illustration. Remove the bulb socket from the headlight assembly by turning it counterclockwise.

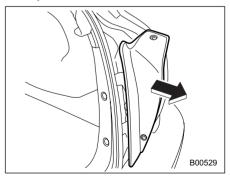


- Front turn signal light
 Front side marker light
- 5. Pull the bulb out of the socket. Install a new bulb.

■ Rear combination lights

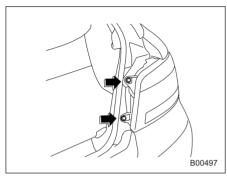


1. Using a Phillips screwdriver, remove the upper and lower clips that secure the side cover of the rear combination light assembly.

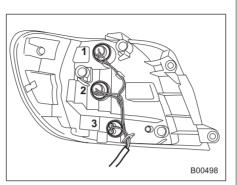


Maintenance and service 11-51

2. Remove the side cover.



3. Remove the upper and lower bolts. Then, slide the rear combination lamp assembly to the rear and remove it from the vehicle.

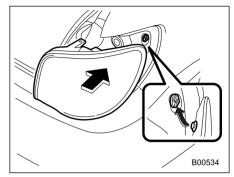


- 1) Rear turn signal light
- 2) Brake/tail light
- 3) Backup light

4. Remove the bulb socket from the rear combination light assembly by turning it counterclockwise.

5. Pull the bulb out of the bulb socket and replace it with a new one.

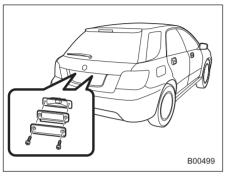
6. Set the bulb socket into the rear combination light assembly and turn it clockwise until it locks.



7. Put the rear combination light assembly into place while aligning the clip with the guide on the vehicle and fasten the bolts.

8. Install the side cover and secure it with the clips.

■ License plate light



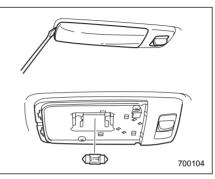
1. Remove the mounting screws using a Phillips screwdriver.

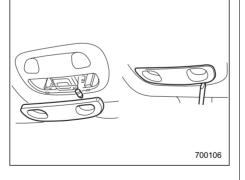
2. Remove the cover and lens.

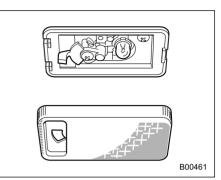
3. Pull the bulb out of the socket. Install a new bulb.

- 4. Reinstall the lens and cover.
- 5. Tighten the mounting screws.

Dome light, map light and cargo area light







1. Remove the lens by prying the edge of the lens with a flat-head screwdriver.

2. Pull the bulb out of the socket. Install a new bulb.

3. Reinstall the lens.

NOTE

Other bulbs may be difficult to replace. Have your Saab dealer replace these bulbs if necessary.

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

Specifications

These specifications are subject to change without notice.

Dimensions

	Item	2.5-liter i	non-turbo	2.5-lit	ter turbo
		2.5i model		Aero 🛠	
Drive system		AW		WD	
Transmission	type	AT MT AT		MT	
Overall length		175.6 (4,460)			
Overall width		66.7 (1,694)			
Overall height		57.7 (1,466)			
Wheel base		99.4 (2525)			
Track Front		57.7 (1,466)			
Rea	Rear	57.3 (1,455)			
Ground cleara	ince ^{*1}		6.1	(155)	

*1: Measured with vehicle empty

AT: Automatic transmission

MT: Manual transmission

in (mm)

Engine

Engine model	EJ253 (2.5-liter, SOHC, non-turbo) EJ255 (2.5-liter, DOHC, turbo)			
Engine type	Horizontally opposed, liquid cooled	Horizontally opposed, liquid cooled 4 cylinder, 4-stroke gasoline engine		
Displacement cc (cu-in)	2,457	2,457 (150)		
Bore × Stroke in (mm)	3.9 × 3.1 (\$	3.9 × 3.1 (99.5 × 79.0)		
Compression ratio	10.0 : 1 8.4 : 1			
Firing order	1-3-2-4			

Electrical system

Battery type and capacity (5HR)	MT	55D23L (12V-48AH)
	AT	75D23L (12V-52AH)
Alternator	Turbo engine	12V-110A
	Non-turbo_engine	12V-90A
Spark plugs	Turbo_engine	ILFR6B (NGK)
	Non-turbo engine	FR5AP-11 (NGK)

AT: Automatic transmission

MT: Manual transmission

12-4 Specifications

Capacities

Fuel tank			15.9 US gal (60 liters)
Engine oil			4.2 US qt (4.0 liters)
Transmission oil (MT)			3.7 US qt (3.5 liters)
Transmission oil (AT)			9.8 US qt (9.3 liters)
AT differential gear oil			1.3 US qt (1.2 liter)
Rear differential gear oil			0.8 US qt (0.8 liter)
Power steering fluid			0.7 US qt (0.7 liter)
Engine coolant	Turbo engine model	MT	7.8 US qt (7.4 liters)
		AT	7.7 US qt (7.3 liters)
	Non-turbo engine model	MT	7.4 US qt (7.0 liters)
		AT	7.3 US qt (6.9 liters)

AT: Automatic transmission MT: Manual transmission

Tires

Tire size		P205/55R16 89V	215/45R17 91W	
Wheel size		$16 \times 6^{1}/_{2} JJ$	17 × 7 JJ	
Pressure Front		32 psi (220 kPa, 2.2 kgf/cm ²)	33 psi (230 kPa, 2.3 kgf/cm ²)	
	Rear	29 psi (200 kPa, 2.0 kgf/cm ²)	32 psi (220 kPa, 2.2 kgf/cm ²)	
Temporary spare tire	Size	T135/7	70 D16	
	Pressure	60 psi (420 kPa, 4.2 kgf/cm ²)		

NOTE

Adjust the tire pressure to 36 psi (250 kPa, 2.5 kgf/cm²) when driving the vehicle with five people and cargo inside and at speeds exceeding 99.4 mph (160 km/h).

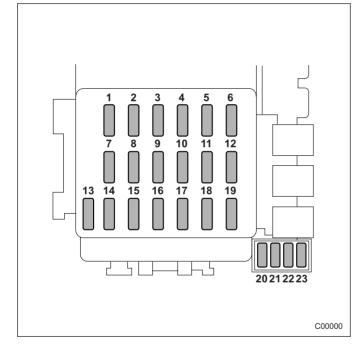
■ Wheel alignment

Item		2.5-liter non-turbo	2.5-liter turbo	
		2.5i model	Aero 🛠	
Drive system AWD			VD	
Toe Front Rear		0.1 in (2 mm)		
		0 in (0 mm)		
Camber	Front	-0°10' -0°20'		
Rear		-1°15'	-1°20'	

12-6 Specifications

Fuses and circuits

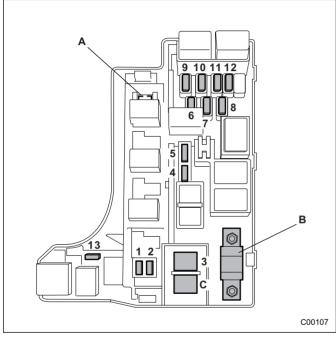
■ Fuse panel located behind the coin tray



Fuse panel	Fuse rating	Circuit
1	15A	Heater fan
2	15A	Heater fan
3	15A	Power door lockRemote keyless entry
4	20A	Cigarette lighterRemote controlled rear view mirrors
5	10A	Tail lightParking light
6	15A	SRS airbag
7	15A	Fog light
8	20A	ABS solenoid
9	15A	Radio
10	Empty	
11	15A	Engine ignition systemSRS airbagAT control system
12	10A	Illumination brightness control
13	10A	Instrument clusterSRS lamp
14	10A	Rear window wiper and washer

Fuse panel	Fuse rating	Circuit
15	30A	Windshield wiper and washer
16	20A	Brake light
17	15A	Air conditioner
18	15A	Backup lightCruise control
19	20A	Mirror heater
20	Empty	
21	15A	 Ignition coil (Non-turbo models only)
22	10A	ABS ignition
23	20A	Seat heater

■ Fuse panel located in the engine compartment



A) FWD socket (AT models except Turbo)

B) Main fuse

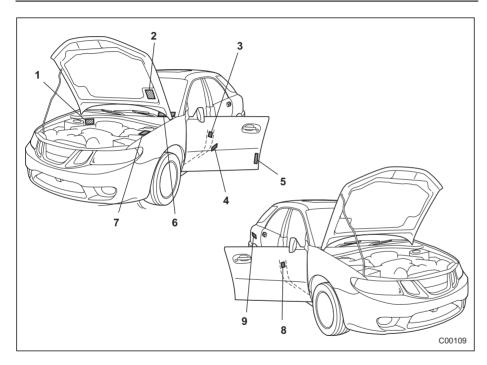
C) Engine sensor (Non-turbo models)

Fuse panel	Fuse rating		Circuit
1	20A	٠	Radiator cooling fan (Main)
2	20A	٠	Radiator cooling fan (Sub)
3	30A	٠	ABS motor
4	20A	٠	Rear window defogger
5	15A	•	Hazard warning flasher Horn
6	15A	٠	Turn signal lights
7	10A	٠	Automatic transmission control unit
8	10A	٠	Alternator
9	15A	٠	Headlight (right side)
10	15A	٠	Headlight (left side)
11	20A	٠	Lighting switch
12	20A	•	Clock Interior light
13	10A	•	Secondary air combination valve (Turbo models only)

Bulb chart

Description	Wattage	Bulb type
Headlight		
Premium Package		
vehicles		
Low beam	12V-35W	D2R
High beam	12V-60W	9005 (HB3)
Except Premium		
Package vehicles		
Low beam	12V-55W	H1
High beam	12V-60W	9005 (HB3)
Front fog light	12V-51W	9006 (HB4)
Front turn signal light	12V-21W (Amber)	WY21W (7440A)
Front side marker light	12V-5W	W5W
Parking light	12V-5W	W5W
Rear combination light		
Brake/tail light	12V-21/5W	W21/5W (7443)
Turn signal light	12V-21W (Amber)	WY21W (7440A)
Back-up light	12V-16W	W16W (921)
High mount stop light	12V-1.3W	LED
License plate light	12V-5W	W5W
Cargo area light	12V-5W	—
Front ashtray light	12V-1.4W	—
Dome light	12V-8W	—
Map light	12V-8W	_

Vehicle identification



- 1) Vehicle identification number
- 2) Vacuum hose connections label/ Emission control label
- 3) Tire inflation pressure label
- 4) Certification plate
- 5) Bar code label (U.S. only)
- 6) Vehicle identification number plate
- 7) Model number plate
- 8) Radio noise label (Canada only)
- 9) Fuel label

Consumer information and Reporting safety defects

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* Asterisk means: equipment not fitted in all cars (can depend on model variant, engine variant, market specification, options or accessories).

13

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For U.S.A.

The following information has been compiled according to Code of Federal Regulations "Title 49, Part 575". (For Canadian resident's information.)

Tire information

■ Tire labeling

Many markings (e.g. Tire size, Tire Identification Number or TIN) are placed on the sidewall of a tire by tire manufacturers. These marking can provide you with useful information on the tire.

▼ Tire size

Your vehicle comes equipped with P-Metric tire size. It is important to understand the sizing system in selecting the proper tire for your vehicles. Here is a brief review of the tire sizing system with a breakdown of its individual elements.

\bigtriangledown P Metric

With the P-Metric system, Section Width is measured in millimeters. To convert millimeters into inches, divide by 25.4. The Aspect Ratio (Section Height divided by Section Width) helps provide more dimensional information about the tire size.

Example:

 $\begin{array}{c|c} \underline{P} & \underline{205} & \underline{/} & \underline{55} & \underline{R} \\ \hline (1) & (2) & (3) & (4) & (5) \end{array}$

(1) P = Certain tire type used on light duty vehicles such as passenger cars
(2) Section Width in millimeters

(3) Aspect Ratio (= section height ÷ section width).

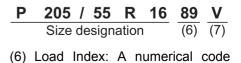
- (4) R = Radial Construction
- (5) Rim diameter in inches

∇ Load and Speed Rating Descriptions

The load and speed rating descriptions will appear following the size designation.

They provide two important facts about the tire. First, the number designation is its load index. Second, the letter designation indicates the tire's speed rating.

Example:



which specifies the maximum load a tire can carry at the speed indicated by its speed symbol, at maximum inflation pressure.

For example, "91" means 1,356 lbs (615 kg), "89" means 1,279 lbs (580 kg)

Load indices apply only to the tire, not to the vehicle. Putting a load rated tire on any vehicle does not mean the vehicle can be loaded up to the tire's rated load.

(7) Speed Rating: An alphabetical system describing a tire's capability to travel at established and predetermined speeds.

For example, "V" means 149 mph (240 km/h), "W" means 168 mph (270 km/h)

- Speed ratings apply only to the tire, not to the vehicle. Putting a speed rated tire on any vehicle does not mean the vehicle can be operated at the tire's rated speed.
- The speed rating is void if the tires are worn out, damaged, repaired, retreaded, or otherwise altered from their original condition. If tires are repaired, retreaded, or otherwise altered, they may not be suitable for original equipment tire designed loads and speeds.

▼ Tire Identification Number (TIN) Tire Identification Number (TIN) is marked on the intended outboard sidewall. The TIN is composed of four groups. Here is a brief review of the TIN with a breakdown of its individual elements.

DOT XX XX XXX XXXX (1) (2) (3) (4)

(1) Manufacturer's Identification Mark

- (2) Tire Size
- (3) Tire Type Code
- (4) Date of Manufacture

The first two figures identify the week, starting with "01" to represent the first full week of the calendar year; the second two figures represent the year. For example, 0101 means the 1st week of 2001.

Other markings

The following makings are also placed on the sidewall.

▽ Maximum permissible inflation pressure

The maximum cold inflation pressure to which this tire may be inflated. For example, "300 kpa (44 PSI) MAX. PRESS"

\triangledown Maximum load rating

The load rating at the maximum permissible weight load for this tire. For example, "MAX. LOAD 580 kg (1279 LBS) @ 300 kpa (44 PSI) MAX. PRESS."

13-4 Consumer information and Reporting safety defects

Maximum load rating applies only to the tire, not to the vehicle. Putting a load rated tire on any vehicle does not mean the vehicle can be loaded up to the tire's rated load.

\bigtriangledown Construction type

Applicable construction of this tire. For example, "TUBELESS STEEL BELTED RADIAL"

\bigtriangledown Construction

The generic name of each cord material used in the plies (both sidewall and tread area) of this tire. For example, "PLIES: TREAD 2 STEEL + 2 POLYESTER SIDEWALL 2 POLYESTER"

▽ Uniform Tire Quality Grading (UTQG)

For details, refer to "Uniform tire quality grading standards" in this chapter.

■ Recommended tire inflation pressure

▼ Recommended cold tire inflation pressure

Recommended cold tire inflation pressure for your vehicle's tires is as follows,

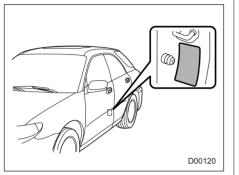
Tire size		P205/55R16 89V	P215/45R17 91W	
Wheel size		16 × 6.5 JJ	17 × 7 JJ	
Pressure	Front	32 psi (220 kpa, 2.2 kgf/cm ²)	33 psi (230 kpa, 2.3 kgf/cm ²)	
	Rear	29 psi (200 kpa, 2.0 kgf/cm ²)	32 psi (220 kpa, 2.2 kgf/cm ²)	
Temporary spare tire	Size	T135/7	T135/70 D16	
	Pressure	60 psi (420 kpa	a, 4.2 kgf/cm ²)	

NOTE

Adjust the tire pressure to 36 psi (250 kPa, 2.5 kgf/cm²) when driving the vehicle with five people and cargo inside and at speeds exceeding 99.4 mph (160 km/h).

13-6 Consumer information and Reporting safety defects

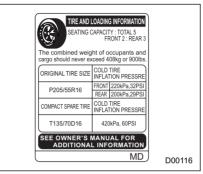
▼ Vehicle label



The vehicle label is affixed to the driver's side B-pillar (US).

On Canadian vehicles this label is located inside the glovebox.

Example:



The vehicle label shows original tire size, recommended cold tire inflation pressure on each tire at maximum loaded vehicle weight, seating capacity and loading information.

▼ Adverse safety consequences of under-inflation

Driving at high speeds with excessively low tire pressures can cause the tires to flex severely and to rapidly become hot. A sharp increase in temperature could cause tread separation, and failure of the tire(s). Possible resulting loss of vehicle control could lead to an accident.

Measuring and adjusting air pressure to achieve proper inflation

Check and, if necessary, adjust the pressure of each tire (including the spare) at least once a month and before any long journey. Check the tire pressures when the tires are cold. Use a pressure gauge to adjust the tire pressures to the specific values. Driving even a short distance warms up the tires and increases the tire pressures. Also, the tire pressures are affected by the outside temperature. It is best to check tire pressure outdoors before driving the vehicle. When a tire becomes warm, the air inside it expands, causing the tire pressure to increase. Be careful not to mistakenly release air from a warm tire to reduce its pressure.

■ Glossary of tire terminology

• Cold tire pressure

The pressure in a tire that has been driven less than 1 mile or has been standing for three hours or more.

Maximum inflation pressure

The maximum cold inflation pressure to which a tire may be inflated.

Recommended inflation pressure

The cold inflation pressure recommended by a vehicle manufacturer.

Intended outboard sidewall

1)The sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or 2)The outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounting on a vehicle.

• Accessory weight

The combined weight (in excess of those standard items which may be replaced) of floor mats, leather seats and cross bars to the extent that these items are available as factory-in-stalled equipment (whether installed or not).

• Curb weight

The weight of a motor vehicle with standard equipment including the

maximum capacity of fuel, oil, and coolant and air conditioning.

• **Maximum loaded vehicle weight** The sum of curb weight, accessory weight, vehicle capacity weight and production options weight.

Normal occupant weight

150 lbs (68 kg) times the number of occupants (3 occupants).

Occupant distribution

Distribution of occupants in a vehicle, 2 in front, 1 in rear seat.

Production options weight

The combined weight of those installed regular production options weighing over 5.1 lbs (2.3 kg) in excess of those standards items which they replace, not previously considered in curb weight or accessory weight.

Vehicle capacity weight

The total weight of cargo, luggage and occupants that can be added to the vehicle.

• Vehicle maximum load on a tire Load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight and dividing by two. • Vehicle normal load on a tire Load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and dividing by two.

Tire care – maintenance and safety practices

• Check on a daily basis that the tires are free from serious damage, nails, and stones. At the same time, check the tires for abnormal wear.

• Inspect the tire tread regularly and replace the tires before their tread wear indicators become visible. When a tire's tread wear indicator becomes visible, the tire is worn beyond the acceptable limit and must be replaced immediately. With a tire in this condition, driving at even low speeds in wet weather can cause the vehicle to hydroplane. Possible resulting loss of vehicle control can lead to an accident.

• To maximize the life of each tire and ensure that the tires wear uniformly, it is best to rotate the tires every 7,500 miles (12,500 km). Rotating the tires involves switching the front and rear tires on the right-hand side of the vehicle and similarly switching the front and rear tires on the left-hand side of the vehicle. (Each tire must be kept on its original side of the vehicle.) Replace any damaged or unevenly worn tire at the time of rotation. After tire rotation, adjust the tire pressures and make sure the wheel nuts are correctly tightened. A tightening torque specification and a tightening sequence specification for the wheel nuts can be found "Flat tires" section in chapter_9.

Vehicle load limit – how to determine

The load capacity of your vehicle is determined by weight, not by available cargo space. The load limit of your vehicle is shown on the vehicle label attached to the driver's side Bpillar. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs" on your vehicle's label.

The vehicle label also shows seating capacity of your vehicle.

The total load capacity includes the

total weight of driver and all passengers and their belongings, any cargo, any optional equipment such as a trailer hitch, roof rack or bike carrier, etc., and the tongue load of a trailer. Therefore cargo capacity can be calculated by the following method.

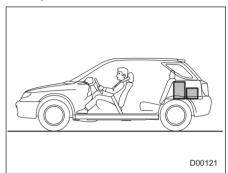
Cargo capacity = Load limit – (total weight of occupants + total weight of optional equipment + tongue load of a trailer (if applicable))

For towing capacity information and weight limits, refer to "Trailer towing" section in chapter 8.

Calculating total and load capacities varying seating configurations

Calculate the available load capacity as shown in the following examples:

Example 1A



Vehicle capacity weight of the vehicle is 900 lbs (408 kg), which is indicated on the vehicle label with the statement "The combined weight of occupants and cargo should never exceed 900 lbs or 408 kg".

For example, if the vehicle has one occupant weighing 154 lbs (70 kg) plus cargo weighing 662 lbs (300 kg).

1. Calculate the total weight.

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Total weight

= <u>154 lbs (70 kg)</u> + <u>662 lbs (300 kg)</u> (Occupant) (Cargo) = **816 lbs (370 kg)**

2. Calculate the available load capacity by subtracting the total weight from the vehicle capacity weight of 900 lbs (408 kg).

Available Load Capacity

- = <u>900 lbs (408 kg)</u> <u>816 lbs (370 kg)</u> (Vehicle capacity weight) (Total weight)
- = 84 lbs (38 kg)

3. The result of step 2 shows that a further 84 lbs (38 kg) of cargo can be carried.

Example 1B

800272

For example, if a person weighing 176 lbs (80 kg) now enters the same vehicle (bringing the number of occupants to two), the calculations are as follows:

1. Calculate the total weight.

Total weight

- + <u>662 lbs (300 kg)</u> (Cargo)
- = 992 lbs (450 kg)

2. Calculate the available load capacity.

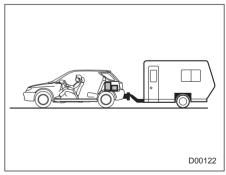
Available Load Capacity

= <u>900 lbs (408 kg)</u> – <u>992 lbs (450 kg)</u> (Vehicle capacity weight)

= -92 lbs (-42 kg)

3. The total weight now exceeds the capacity weight by 92 lbs (42 kg), so the cargo weight must be reduced by 92 lbs (42 kg) or more.

Example 2A



Vehicle capacity weight of the vehicle is 900 lbs (408 kg), which is indicated

- CONTINUED -

on the vehicle label with the statement "The combined weight of occupants and cargo should never exceed 408 kg or 900 lbs".

For example, the vehicle has one occupant weighing 165 lbs (75 kg) plus cargo weighing 375 lbs (170 kg). In addition, the vehicle is fitted with a trailer hitch weighing 22 lbs (10 kg), to which is attached a trailer weighing 1,764 lbs (800 kg). 10% of the trailer weight is applied to the trailer tongue (i.e. Tongue load = 176 lbs (80 kg)).

1. Calculate the total weight.

Total weight

$$= \frac{165 \text{ lbs } (75 \text{ kg})}{(\text{Occupant})} + \frac{375 \text{ lbs } (170 \text{ kg})}{(\text{Cargo})} + \frac{22 \text{ lbs } (10 \text{ kg})}{(\text{Trailer hitch})} + \frac{176 \text{ lbs } (80 \text{ kg})}{(\text{Tongue load})}$$

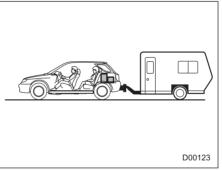
2. Calculate the available load capacity.

= 900 lbs (408 kg) -	– <u>738 lbs (335 kg)</u>
(Vehicle	(Total weight)
capacity weight)	

= 162 lbs (73 kg)

3. The result of step 2 shows that a further 162 lbs (73 kg) of cargo can be carried.

Example 2B



For example, if a person weighing 143 lbs (65 kg) and a child weighing 40 lbs (18 kg) now enter the same vehicle (bringing the number of occupants to three), and a child restraint system weighing 11 lbs (5 kg) is installed in

the vehicle for the child to use, the calculations are as follows:

1. Calculate the total weight.

Total weight

- + <u>40 lbs (18 kg)</u> (Occupant)
- + <u>11 lbs (5 kg)</u> + <u>375 lbs (170 kg)</u> (Child restraint) + (Cargo)
- + <u>22 lbs (10 kg)</u> + <u>176 lbs (80 kg)</u> (Trailer hitch) + <u>176 lbs (80 kg)</u> (Tongue load)
- = 932 lbs (423 kg)

2. Calculate the available load capacity.

Available Load Capacity

- = <u>900 lbs (408 kg)</u> <u>932 lbs (423 kg)</u> (Vehicle capacity weight)
- = -32 lbs (-15 kg)
- 3. The total weight now exceeds the

capacity weight by 32 lbs (15 kg), so the cargo weight must be reduced by 32 lbs (15 kg) or more.

Determining compatibility of tire and vehicle load capacities

The sum of four tires' maximum load ratings must exceed the maximum loaded vehicle weight ("GVWR"). In addition, sum of the maximum load ratings of two front tires and of two rear tires must exceed each axle's maximum loaded capacity ("GAWR"). Original equipment tires are designed to fulfill those conditions.

The maximum loaded vehicle weight is referred to Gross Vehicle Weight Rating (GVWR). And each axle's maximum loaded capacity is referred to Gross Axle Weight Rating (GAWR). The GVWR and each axle's GAWR are shown on the vehicle certification label affixed to the driver's door.

The GVWR and front and rear GAWRs are determined by not only the maximum load rating of tires but also loaded capacities of the vehicle's suspension, axles and other parts of the body.

Therefore, this means that the vehicle cannot necessarily be loaded up to the tire's maximum load rating on the tire sidewall.

Adverse safety consequences of overloading on handling and stopping and on tires

Overloading could affect vehicle handling, stopping distance, vehicle and tire as shown in the following. This could lead to an accident and possibly result in severe personal injury.

• Vehicle stability will deteriorate.

• Heavy and/or high-mounted loads could increase the risk of rollover.

- Stopping distance will increase.
- Brakes could overheat and fail.

• Suspension, bearings, axles and other parts of the body could break or experience accelerated wear that will shorten vehicle life.

- Tires could fail.
- Tread separation could occur.
- Tire could separate from its rim.

Steps for Determining Correct Load Limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX pounds" on your vehicle's label.

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX kilograms or XXX pounds.

4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1,400 lbs (635 kg) and there will be five- 150 lbs (68 kg) passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. $(1,400 - 750 (5 \times 150) = 650 \text{ lbs.})$

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

6. If your vehicle will be towing a trailer, load from your trailer will be trans-

ferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Uniform tire quality grading standards

This information indicates the relative performance of passenger car tires in the area of treadwear, traction, and temperature resistance. This is to aid the consumer in making an informed choice in the purchase of tires.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

The quality grades apply to new pneumatic tires for use on passenger cars. However, they do not apply to deep tread, winter type snow tires, spacesaver or temporary use spare tires, tires with nominal rim diameters of 12 inches or less, or to some limited production tires.

All passenger car tires must confirm to Federal Safety Requirements in addition to these grades.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example, a tire graded 150 would wear one and one-half (1-1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

The traction grade assigned to this tire is based on straightahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standards No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Reporting safety defects (USA)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Saab Cars USA, Inc.

If NHTSA receives similar complaints. it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between vou. your dealer, or Saab Cars USA, Inc. To contact NHTSA, you may call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153; go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington D.C. 20590. You can also obtain other information about motor vehicle safety from http:// www safercar.gov.

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Reporting safety defects to the Canadian government

If you live in Canada, and believe that your vehicle has a safety defect, you should immediately notify Transport Canada, in addition to notifying General Motors of Canada Limited. You may write to Transport Canada at Box 8880, Ottawa, Ontario, K1G 3J2. In addition to notifying Transport Canada in a situation like this, we certainly hope you will notify us. In Canada, please call our Saab Customer Assistance Centre at 1-800-263-1999. Or write:

General Motors of Canada Limited Customer Assistance Centre, 1908 Colonel Sam Drive, Oshawa, Ontario, L1H 8P7.

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