

# 1 9 7 9 VOLVO 264 265

**Notice to Owner:** Your Volvo has been built to comply with all American safety and anti-pollution regulations. Evidence of this can be verified from the certification labels attached to the door opening sheet metal and on the left wheel housing in the engine compartment. For further information regarding these regulations, please talk to your local dealer.

**Notice:** All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. Volvo reserves the right to make model changes at any time, or to change specifications or design, without notice and without incurring obligation.

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pg. 2 General Information



Do not export your Volvo to another country before investigating that country's applicable safety and exhaust emission requirements. In some cases it may be impossible to comply with these requirements.

pg. 3 Keys



Write the key number codes on the inside of the front cover of this manual. (See tag attached to plastic key ring).

In the event the original keys are lost, duplicates may be ordered from your Volvo dealer.



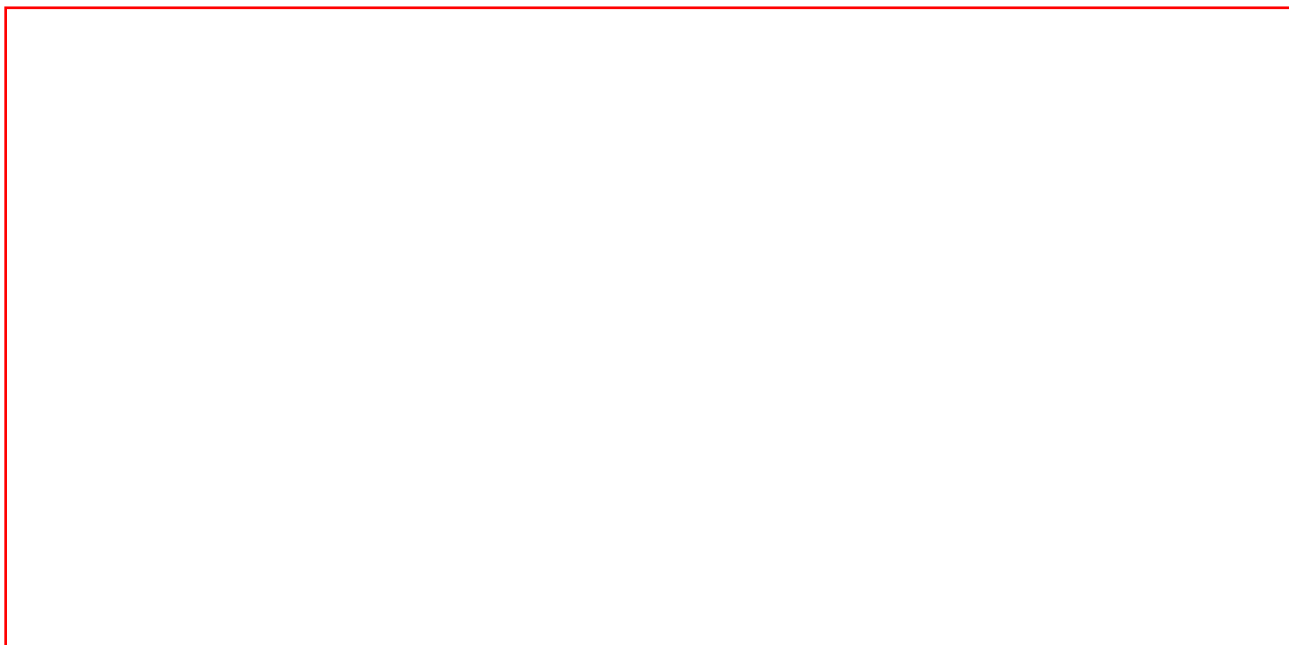
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pg. 4 Instruments and controls



pg. 5 Instruments and controls

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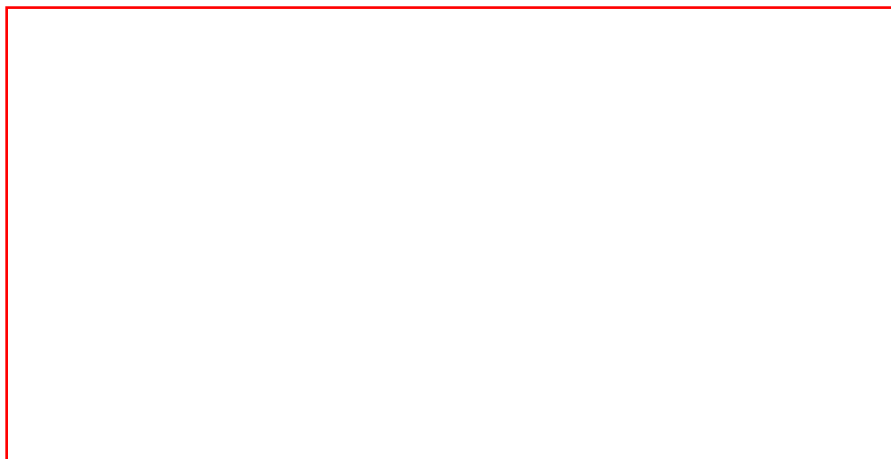
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The pages in this section provide a detailed description of the vehicle's instruments and controls. Note that vehicles may be equipped differently, depending on special legal requirements, etc.

## pg. 6 Instruments

### **A Odometer**

Total mileage reading.

### **B Speedometer**

### **C Left turn signal indicator (green)**

### **D Parking brake reminder light (red)**

### **E High beam indicator (blue)**

### **F Brake failure warning light (red)**

### **G Right turn signal indicator (green)**

### **H Oil pressure warning light (red)**

### **I Alternator warning light (red)**

### **J Trip odometer**

(last figure represents 1/10 mile/km)

### **K Trip odometer reset knob**

Push in to reset

### **L Reminder light, Lambda-sond<sup>TM</sup>\* (oxygen sensor system) service**

### **M Tachometer**

Reads thousands of engine rpm.

Orange range for momentary use, during acceleration.

Red prohibited range.

### **N Bulb failure warning light (yellow)**

### **O Temperature gauge**

**The gauge pointer should remain inside the black range during normal operation.**

If the pointer enters the red range repeatedly, check coolant level and fan belt tension. (See section titled "Cooling system and coolant".)



**P Overdrive indicator light (green)**

Lights when overdrive is engaged.

**R Fuel gauge**

The fuel tank capacity is approx. 60 liters = 15.8 US gals/13.2 Imp. gals.

F Full

1/2

R Reserve

O Empty

The red range from R to O represents approx. 2.1 US gals. = 8 liters/1.8 Imp. gals.

\*Lambda-sond TM is a trademark of Volvo of America Corporation.

**pg. 7 Warning lights**

**The warning lights described on this page should never be on when driving**

When the ignition key is turned on, and before the engine starts, all of the warning lights should be on to test the function of the bulbs. Should a light not go off after the engine has started, the system indicated should be inspected. (However, the parking brake reminder light will not go off until the parking brake is fully released.)

 **D Parking brake reminder light (red)**

This light will be on when the parking brake (hand brake) is applied. The parking brake lever is situated between the front seats.



 **F Brake failure warning light (red)**

If the light comes on while driving and the brake pedal can be depressed further than normal, it is an indication that one of the brake circuits is not functioning. Proceed cautiously to a Volvo dealer for an inspection of the brake system.

 **H Oil pressure warning light (red)**

If the light comes on during driving, the oil pressure is too low. Stop the engine immediately and check the engine oil level. See section titled "Engine Oil".


After hard driving, the light will come on occasionally when the engine is idling. This is normal, provided it goes off when the engine speed is increased.

 **I Alternator warning light (red)**

If the light comes on while the engine is running, check the tension of the alternator drive belt as soon as possible. (See section titled "Cooling system".)

NOTE:

This warning light is illuminated if the alternator is not charging. However, **oil pressure, alternator, parking brake, brake failure, Lambda-sond™ system service reminder and bulb failure will be illuminated at the same time** due to the design of the system.

 **L Lambda-sond™ (oxygen sensor system) service reminder light (red)**

As required by U.S. Environmental Protection Agency this light will come on at 15,000 mile (25,000 km) intervals. It is a reminder to have the oxygen sensor system serviced. The light will stay on until reset by servicing dealer.

 **N Bulb failure warning light (yellow)**

The light will come on if any of the following bulbs are defective:

- one of the lower beams
- one of the tail lights
- one of the brake lights (when the brake pedal is depressed).

See section on "Replacing Bulbs".

## pg. 8 Ignition switch, parking brake

### **Ignition switch/steering wheel lock**



The steering wheel lock might be under tension when the car is parked. Turn the steering wheel slightly to free the ignition key.

A buzzer will sound if the ignition key is in the ignition lock and the front door on the driver's side is open. The buzzer will also sound if the headlights or parking lights are on when the door is open. The buzzer goes off when the front door is closed.



### **Parking brake (hand brake)**

The lever is situated between the front seats. The brake is applied to the rear wheels.

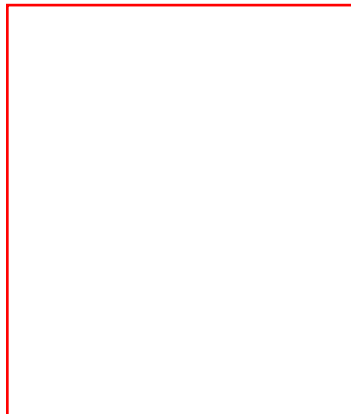
In order to obtain the best possible performance of the parking brake, the brake linings should be broken in. (See section titled "Brake System".)



### **Parking brake reminder light**

The reminder light PARKING BRAKE on the instrument panel comes on whenever the parking brake lever is not fully released and the ignition is on.

pg. 9 Lighting



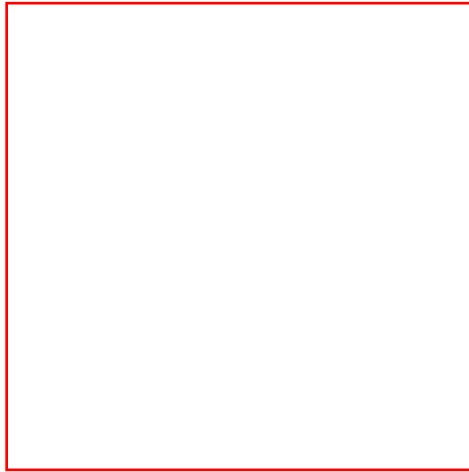
### **Headlights and position lights**

All lights off

Parking lights on

Headlights and parking lights on

Switch from upper to lower beams, and vice versa, by moving the turn signal switch lever on the left side of the steering column towards the steering wheel. The lights can be used without switching on the ignition key.



A buzzer will sound if the headlights or parking lights are on and the front door on the driver's side is open. The buzzer will also sound if the ignition key is in the ignition lock when the door is open. The buzzer goes off when the front door is closed.



### **Instrument panel lamps rheostat**

Clockwise - brighter

Counterclockwise - dimmer.

pg. 10 Turn signals, windshield wipers



## Turn signals

### 1 Signal lever engaged for normal turns.

Defective turn signal bulb will cause turn signal indicator and remaining signal lights to flash more rapidly.

**2 Lane change position.** In maneuvers such as lane changing, the driver can flash the turn signals by moving the turn signal lever to the first stop and holding it there. The lever will return to the neutral position when released.



### 3 High and low beam switching (headlights on).

Move the lever towards the steering wheel and release it.

### 3 Headlight flasher (headlights off).

Move the lever towards the steering wheel. The headlight high beam will be on until the lever is released.



## **Wiper/washer**

### **1 Intermittent wiper.**

With switch in this position, the wipers will make a stroke every seventh second.

### **2 "Single stroke" position.**

Switch returns automatically when released.

### **3 Wipers, low speed.**

### **4 Wipers, high speed.**

### **5 Wiper and washer.**

pg. 11 Tailgate window wiper, washer nozzles, washer fluid reservoir



## **Tailgate window wiper/washer, 265**

Operated by the switch at the end of the windshield wiper/washer operating stalk.

### **1 Tailgate wiper**

### **2 Interval position**

With the switch in this position, there is one stroking cycle approx. every five seconds.

### **3 Tailgate washer**

Depress the button to start the wiper/washer. The wiper will complete 2-3 stroking cycles after the button is released.



### **Adjusting washer nozzles**

The nozzle may be adjusted by inserting a needle into the metal nozzle and rotating nozzle to desired position.

### **Washer fluid reservoir**

The washer fluid reservoir for the windshield is located in the engine compartment and holds approx. 1.6 US gals = 6 liters/1.3 Imp. gals.

The fluid reservoir for the tailgate washer on the wagon is located in the concealed storage area under the floor on the right side of the rear cargo area. Reservoir capacity is approx. 1.6 US qts. = 1.5 liters/1.3 Imp. qts.



### **Quartz crystal clock**

To reset the hands, push in the reset knob and turn.



### **Cigarette lighter**

To operate, depress the knob fully. When the knob automatically releases, the cigarette lighter is ready for use.





## Ash trays

To remove the ash trays depress the center spring and remove.

pg. 13 Elect. operated windows, elect. heated rear window, hazard warning flasher



## Electrically operated windows

The front windows are operated from the instrument cluster, the rear windows from the console between the front seats.

The switches spring back to their switched-off position when released.



## Safety switch, rear windows

The rear windows cannot be operated when this is switched off.

## Electrically heated rear window (demist)

Switch off the rear window demister when the glass is clear of mist or frost. Otherwise the battery will

be unduly strained.

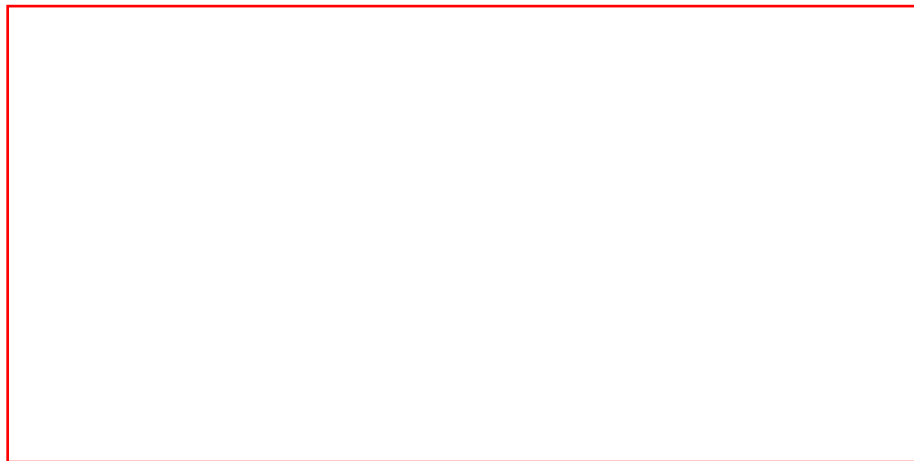
Do not place items against the inner surface of the rear window that may damage the printed circuit. Do not scrape the inner surface of the rear window glass with a hard object or use an abrasive window cleaner, otherwise damage to the printed circuit will occur.

### **Hazard warning flasher**

Four way flashing is used to indicate that the vehicle has become a traffic hazard (either during daylight or at night).

**Note:** Regulations regarding the use of the hazard warning flasher may vary from state to state.

pg. 14 Heating and ventilation



### **Heating system**

#### **1 TEMP**

Left = cool

Right = warm

#### **2 FLOOR**

Out = no air to floor

In = full flow of air to front and rear floor

#### **3 DEF (Defrost)**

Out = low volume air flow to defroster

In = full flow

#### **4 REC (recirculation)**

To be used only for cars equipped with air conditioning.

Do not use for heating.

Out = full flow of outside air

In = air is recirculated for faster cooling

### **5 FAN (Blower motor)**

0 = off

1 = low speed

2 = medium speed

3 = high speed

### **6 Fresh air louvers (dash)**

The air flow through the louvers is slightly decreased when the FLOOR (2) and/or DEF(3) controls are depressed.



### **How to . . .**

#### **. . . obtain max. heat**

1 TEMP >>> WARM

2 FLOOR depressed

5 FAN >>> 2(or 3)

6 All dash louvers halfway open and floor air louver closed.

#### **. . . remove condensation**

1 TEMP >>>WARM

3 DEF depressed

5 FAN >>> 2 (or 3)

6 All louvers closed as well as the floor fresh air louver.

Always keep front external inlet grille (in front of the windshield) clear of obstructions (snow, ice, etc.).



**Fresh air louver (dash)**

A Closed

B Open

C Directing air flow horizontally

D Directing air flow vertically



**Fresh air louver (floor)**

There is one floor directed fresh air louver on the driver side of the vehicle. Airflow is controlled by the lever at the center of the louver.

Lever placed forward = louver opens

Lever placed rearward = louver closes

Maximum airflow is obtained with louver fully open and the fan (blower motor) OFF. (The fan forces the air through the dash louvers.)



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## **Air conditioning**

How to use the air conditioner:

### **1 FAN**

Position 3 for rapid cooling.

### **2 AIR COND**

Depress bottom end of switch to start the compressor.

**The A/C does not operate unless FAN is on.**

### **3 REC (Recirculation)**

Push in for rapid cooling and during high humidity conditions.

### **4 TEMP**

Position control to COOL for rapid cooling, then set to desired temperature.

To obtain rapid cooling, all windows must be closed and buttons FLOOR and DEF out. Close the floor fresh air louver.

Cool air will then be discharged through the four dash outlets which should be fully open.

**Note:** For rapid removal of condensation from inside glass surfaces, the air conditioner can be switched on even when not required for interior cooling. The air conditioner will dehumidify the air inside the vehicle.

Have your Volvo dealer check the system for correct operation yearly.

## Operating instructions

This equipment is optional and is available in various models, each providing slightly different capabilities. Operating instructions are contained in the manuals associated with each model. These manuals are placed in the cars when the equipment is installed by the Dealer. Your Volvo Dealer will be able to assist you with any questions regarding the operation of this equipment.

**NOTE:** Operation of Citizens Band (CB) radios is governed by Federal Regulations. You must obtain a special license before operation this equipment.

pg. 18 Front seats



## Horizontal seat adjustment

Pull control upward, then slide seat forward or rearward to desired position.

**Make sure that the seat is properly secured when you release the control.**

**Note:** Never adjust seat while driving.

The entire seat frame can be moved further back to accommodate the very tall drivers. Tools are required for this adjustment. Pre-drilled holes are provided. Adjustment is approx. 1 1/8" = 3 cm.



### **Seat back inclination adjustment**

Rotate control clockwise to tilt seat back rearward.

Rotate counterclockwise to tilt seat back forward.

**Note that body weight must be shifted to allow seat back to move forward.**



### **Lumbar support adjustment**

Rotate clockwise for firm support or counterclockwise for soft support.

The driver's seat is electrically heated and thermostatically controlled. Automatic engagement begins at 59°F (+15°C) and ends at approx. 77°F (+25°C).





### **Driver seat height**

There are two levers, each with three positions, for adjusting the height of the seat (front and/or back of cushion).

This allows adjustment of the seat cushion angle for added comfort.

After adjusting the seat, check that it is securely latched.

**Note! Do not attempt to adjust seat height while seated.**



### **Passenger seat height**

The front passenger seat is retained by four brackets, each with three positions. The positions are the same as for the driver's seat.

However, this adjustment must be accomplished manually using appropriate hand tools.



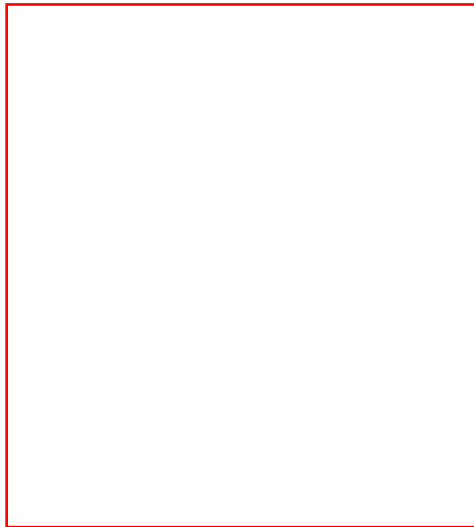
### **Seat belts, retractable**

#### **Fasten the seat belts whenever you drive or ride.**

Two lights will be illuminated for 4-8 seconds after the ignition key is turned to driving position. One light is located in the instrument cluster and one in the console between the front seats.

A buzzer will sound at the same time if the driver has not fastened his seat belt.

The front and rear outboard seats are provided with self-retracting inertia belts.



#### **To buckle:**

Pull the belt out from the retractor far enough to insert the latch plate into the receptacle (buckle for rear seats), until a distinct snapping sound is heard. The belt should not be twisted or turned.

To unfasten, depress red pushbutton in receptacle (buckle) and let the belts rewind into their retractors.

The seat belt retractors are normally "unlocked". The retractors will lock up as follows:

- if belt is pulled out rapidly
- during braking and acceleration
- if the vehicle is leaning excessively
- when driving in turns



Check seat belt mechanism function as follows:

1. Attach the seat belt. Pull rapidly on the strap.
2. **CAUTION: Check other traffic before accomplishing this check.**

Brake firmly from approximately 30 mph (50 km/h) or turn in a tight circle while pulling on the belt.

In all the above checks you should not be able to pull the belt out.

pg. 21 Seat belts



### **Seat belts, manually adjustable**

The center rear seat belt is manually adjustable. It should always be adjusted to the correct length.

**To lengthen**, angle the buckle as shown in the illustration and pull the belt through.



**To shorten**, pull the upper part of the double webbing until snug.

### **Maintenance**

Check periodically that the anchor bolts are secure and the belt in good condition.

Use water and a mild detergent for cleaning.

**As the seat belts lose much of their strength when exposed to violent stretching, they should be replaced after collision, even though they may appear to be undamaged.**

Never modify or repair the belt on your own, but have this done by an authorized Volvo workshop.

pg. 22 Doors and locks



### **Unlocking front doors**

Both front doors can be unlocked by using the starting key. Turning the key 1/4 turn counter-clockwise (right door: clockwise) lifts the lock buttons on the window ledge and the door can be opened by pulling the handle.

To open a door from inside, the lock button must first be pulled up.



### **Locking doors**

All doors can be locked by depressing the lock buttons. To lock, depress the lock button and shut the door.

### **Do not leave the key inside the car!**

Both front doors can be locked by using the key. Turning the key 1/4 turn clockwise (left door) or counter clockwise (right door) locks the doors.

**The lock buttons should not be in the down position during driving. In case of an accident, this may hinder rapid access to the occupants of the vehicle.**

In wintertime the door locks should be "lubricated" with a suitable agent to prevent freezing. If the lock is frozen, be careful not to break the key in the lock. Thaw the ice by heating the lock or the key.

pg. 23 Rear doors, trunk lid



### **Child safety locks**

The buttons are located on the rear door jambs.

**A** Normal lock function.

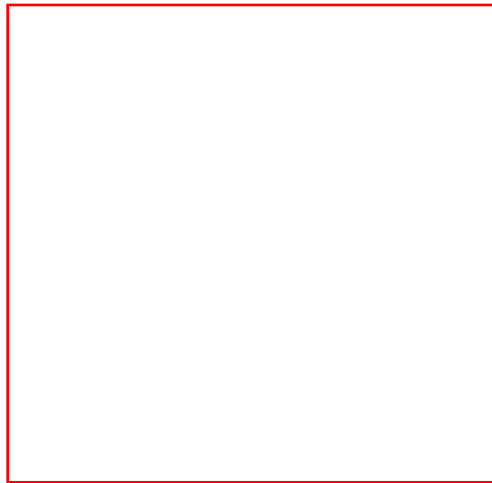
**B** The door **cannot** be opened from the **inside**.



### **Trunk lid , 264**

The lid can be opened only by using the key. Open by turning the key 1/4 turn, as shown.

The spare wheel jack and tool kit are stowed in the left side of the trunk.



### **Trunk light, 264**

**A** Light always off.

**B** Light on when trunk lid is opened.



### **To open the hood**

Pull the release handle (located under the left side of the dash).

Lift the hood slightly, insert a hand under the center line of the hood and depress the safety catch handle.

Open the hood.

**Check that the hood locks properly when closing.**

pg. 25 Rear/side view mirrors



### **Electrically operated side view mirrors**

The control switches are located in front of the parking brake housing.

A Adjustment sideways

B Adjustment up/down



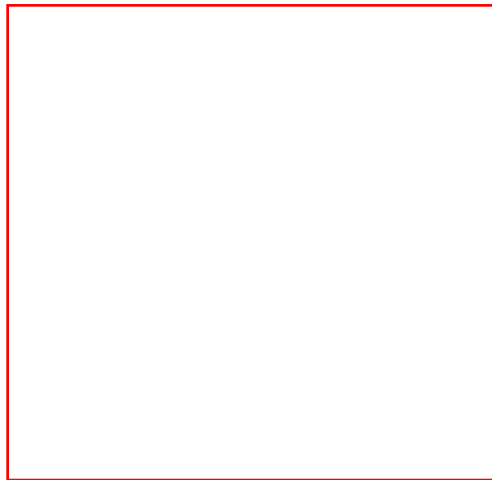
### **Rear view mirror**

D Normal position

N Night position, reduces glare from following headlights

**The mirrors should always be adjusted before driving.**

pg. 26 Interior light, sun roof, fuel tank cap



### **Interior light**

1 Light always on.

2 Light always off.

3 Light is on when either of the front or rear doors are opened.

To facilitate finding ignition lock, etc., during darkness a time delay device will illuminate the interior light for approx. 15 seconds after closing the driver's door (does not apply to the passenger's door).

The 265 model has a slightly different kind of interior lamp housing.





### **Sun roof (certain models)**

The sun roof is operated by a handle located between the sun visors.

Unfold the handle and turn it counter-clockwise to open, clockwise to close.

**For safety reasons, the handle should always be folded when driving.**



### **Filling fuel**

The gas cap is located behind the door on the right rear fender. Open slowly during hot weather conditions.

When filling, position the cap in the special bracket on the door.

After filling the tank, install the cap and turn until a "click" is heard.

**Note: Unleaded fuel is required for all models. A label on the instrument panel and rear fender, near the filler inlet, will remind owners and filling station attendants of this requirement.**

**Important! It is unlawful to dispense leaded fuel into any vehicle labeled "unleaded gasoline only".**



### **Folding rear seat**

Depress either lever located at the front bottom edge of the rear seat cushion (right or left side). Tilt the seat towards the front seat.



Pull the handle on the rear side of the seat back sideways, and fold the seat back forward and down so that it lies flat. The rear seat back and cushion are held automatically in their respective positions. When returning the rear seat to its normal position, make sure the latches are securely locked and the seat belts lie on top of the seat back so they can easily be used.



## Eyelets

Six eyelets are provided in the cargo compartment for anchoring cargo.

Four eyelets are shown in the illustration. The remaining two are accessible when the seat back is folded forward.

pg. 28 Wagon, tailgate



## To open from the outside

Unlock the lock using the trunk/glove box key. Depress the release button located under the tailgate handle.



## To open from the inside

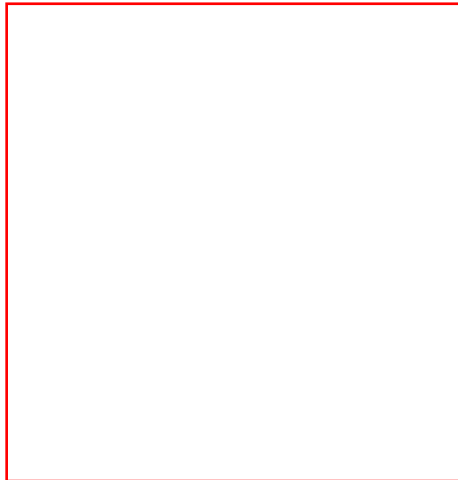
Pull out the T-handle located at the bottom of the tailgate.



**Safety catch**

- A The lid cannot be opened from the inside.
- B The lock functions normally.

pg. 29 Wagon, cargo compartment



**Spare wheel, jack**

The spare wheel and jack are stored under the hatch to the left in the cargo compartment. Loosen the two screws (knurled knobs) and lift off the hatch.



The jack is used to secure the spare wheel. Lower the jack completely. Place the components as shown, then apply the jack to hold the spare wheel.



### **Concealed storage space**

There are two concealed storage areas under the cargo compartment floor. The tailgate window washer fluid reservoir is located in the right side area.



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pg. 30 Break in period, Service inspection

## **STARTING AND DRIVING**

### **A new car should be broken in!**

#### **Manual transmission**

During the break in period do not exceed the following speeds:

#### **First 600 miles (1,000 km)**

- 1st gear 20 mph (30 km/h)
- 2nd gear 30 mph (50 km/h)
- 3rd gear 50 mph (80 km/h)
- 4th gear 70 mph (110 km/h)<sup>1</sup>

1) 80 mph (130 km/h) with overdrive engaged. Do not use overdrive below 40 mph (65 km/h).

#### **600-1,200 miles (1,000-2,000 km)**

- 1st gear 25 mph (40 km/h)
- 2nd gear 45 mph (70 km/h)
- 3rd gear 60 mph (100 km/h)
- 4th gear 80 mph (130 km/h)<sup>2</sup>

Avoid driving at low speed in high gear.

2) 90 mph (150 km/h) with overdrive engaged.

#### **Automatic transmission**

Refrain from using "kick-down" when driving a car equipped with an automatic transmission during the first 1,200 miles (2,000 km).

#### **Service Inspection**

To ensure proper operation the car should be taken to a Volvo dealer between the first 600-1,200 miles (1,000-2,000 km) for a service inspection. The oil in the engine, transmission and rear axle will then be

changed. This is very important since the oil rapidly collects impurities during the break in period.

## pg. 31 Driving economy

### **Economical driving does not necessarily mean driving slow**

Better driving economy may be obtained by thinking ahead, avoiding rapid starts and stops and adjusting the speed of your vehicle to immediate traffic conditions. Observe the following rules:

- Bring the engine to normal operating temperature as soon as possible by driving under light load. A cold engine uses more fuel and is subject to increased wear.
- When possible avoid using the car for driving short distances. This does not allow the engine to reach normal operating temperature.
- Drive carefully and avoid rapid acceleration and hard braking.
- Do not exceed speed limit.
- Avoid carrying unnecessary items (extra load) in the car.
- Check tire pressure regularly - cold tires.
- Remove snow tires when threat of snow or ice has ended.
- Note that roof racks, ski racks, etc., increase air resistance and thereby gas consumption.

Utilize the transmission to improve fuel economy.

Use correct gear!

- From first to second gear at approx 10 mph (20 km/h)
- From second to third gear at approx 20 mph (35 km/h)
- From third to fourth gear at approx 30 mph (50 km/h)
- If vehicle is equipped with overdrive, use it at every opportunity (at speeds in excess of 40 mph = 65 km/h)
- Avoid using automatic transmission kick-down feature unless necessary.

Other factors which decrease gas mileage are:

- Worn or dirty spark plugs
- Incorrect spark plug gap
- Dirty air filter
- Incorrect valve clearance
- Incorrect idle speed
- Dirty engine oil and clogged oil filter
- Dragging brakes
- Incorrect front end alignment
- Low tire pressure

The above mentioned items and others are checked at the standard 7,500 mile (12,500 km) Maintenance Service intervals.

## pg. 32 Starting the engine

**To start the engine;**

- 1 Enter the car and fasten the seat belt.**
- 2 Apply the parking brake, if not already set.**
- 3 Place the gear selector lever in neutral (position N or P, automatic transmission).**
- 4 Depress the clutch pedal (manual transmission).**
- 5 Press down gas pedal about 1 inch=25 mm (1/4 of total stroke).**
- 6 Turn key to starting position. When engine has started, release the key and gas pedal.**

**If the engine does not start at once, depress the throttle pedal half way and keep it there until the engine starts.**

Avoid repeated short attempts to start (fuel is injected every time the starter is engaged when engine is cold).

Allow the starter to operate for a longer time (but not more than 15-20 seconds).

**Do not race a cold engine immediately after starting.**

### **Engine warm-up - initial driving procedure**

Experience shows that engines in vehicles driven short distances are subject to abnormally rapid wear because the engine never reaches normal operating temperature.

It is therefore beneficial to reach normal operating temperature as soon as possible.

This is achieved by driving with a light load as soon as possible.

### **WARNING!**

Always open the garage doors fully before starting the engine inside the garage to ensure adequate ventilation. The exhaust gases contain carbon monoxide, which is invisible and odorless but very poisonous.

## pg. 33 Gear shift positions





### **4-speed manual transmission**

Depress the clutch fully when changing gears.



### **Overdrive (some models only)**

Shift to overdrive at 40 mph (65 km/h) and disengage it when speed drops below 35 mph (55 km/h) or encounters hilly terrain. The overdrive can be engaged in 4th gear only.

No extra operation of clutch or throttle pedal is normally necessary. **Engagement** is facilitated if the accelerator pedal position is maintained steady.

When **disengaging**, depressing the clutch pedal slightly makes a smooth transfer.

The overdrive should be used after the engine has reached normal operating temperature (minimum time is five minutes) and the vehicle is being operated on relatively level roads.

Downshifting to a lower gear will automatically disengage the overdrive.



### **Reversing inhibitor**

Lift the ring to enter the reverse gear.

The ring locking mechanism prevents reverse gear from being engaged unintentionally.

pg. 34 Automatic transmission



### **Shift positions**

- P park
- R reverse
- N neutral
- D drive
- 2 intermediate
- 1 low

The gear selector can be moved freely between D and 2. The other positions are separated by a lockout which is operated by depressing the selector knob.

## **Shift gate**

Depressing the selector knob slightly allows selection of positions **N** and **1**.

Depressing the selector knob fully allows selection of positions **R** and **P**. This is also necessary when initially bringing the selector out of position **P**.

Depressing the selector knob fully thus permits shifting freely between all positions.

## **P Park**

Use this position when parked with the engine running or stopped.

**Never use P while car is in motion.**

The transmission is mechanically locked in position P. Also use the parking brake when parking on grades.

## **R Reverse**

**Never use R while car is moving forward.**

## **N Neutral**

Neutral position = no gear is engaged.

**Use parking brake.**

## **Driving gears**

### **D Drive**

D is the normal driving position. Upshift and downshift of the three forward gears occurs automatically and is governed by throttle opening and vehicle speed.

pg. 35 Automatic transmission

## **2, Intermediate position**

Upshift and downshift of first two gears (low and intermediate) occurs automatically.

**No** upshift to 3rd (top) gear occurs.

Position 2 may be used to obtain forced downshift to 2nd gear for increased engine braking effect.

Position 2 can also be used...

- for relatively slow highway driving
- for city driving
- when driving on mountain roads where precise speed control is desirable
- for passing

**Top speed when selecting 2 is 75 mph (125 km/h).**

## **1, Low position**

If position 1 is selected when driving at high speeds, 2 is engaged first and 1 when the speed has dropped to approx. 30 mph (50 km/h).

**NOTE: No upshift once 1 is engaged.**

Use position 1 to select low gear with no upshift. For instance, when entering and descending steep grades.

**Top speed when selecting 1 is 75 mph (125 km/h).**

**NOTE:**

- **Never select P or R while the car is in motion.**
- **When initially selecting D, 2 ,1 or R the car should be standing still with the engine idling.**
- **Never select positions 2 or 1 at speeds above 75 mph (125km/h).**

**Kick-down**

Automatic shift to a lower gear is achieved by depressing the throttle pedal briskly (passing the normal full throttle position).

An up-shift will be achieved when approaching the top speed for a particular gear or by releasing the throttle pedal slightly.

Kick-down can be used for maximum acceleration or when passing at highway speeds.

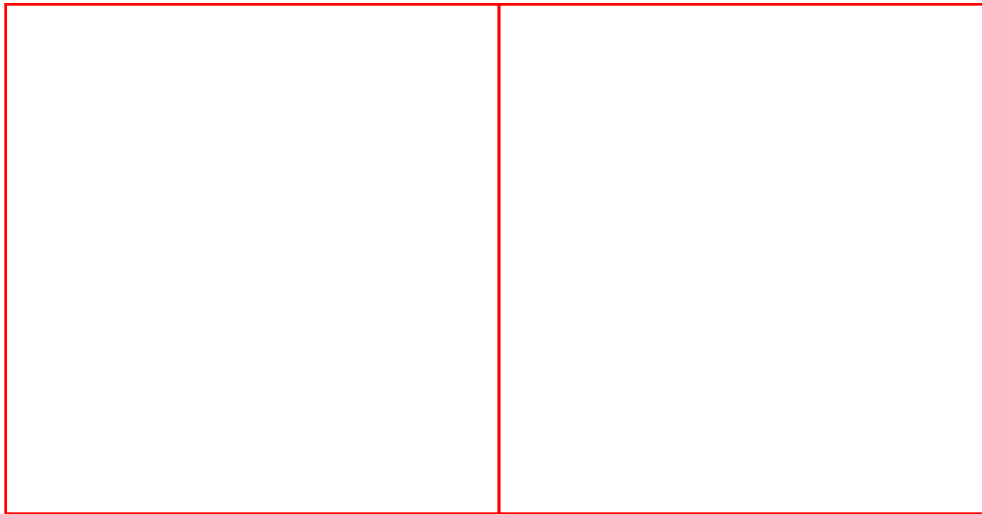
**Starting and stopping a car equipped with automatic transmission**

- 1 Fasten the seat belts.
- 2 Apply the parking brake or the brake pedal to hold the car (to prevent the car from moving when the gear selector is moved).
- 3 Select position **P** or **N**. (Engine cannot be started in any other position).
- 4 Start the engine by turning the ignition key.
- 5 Select desired gear.
- 6 Release the brake and accelerate.

**To stop the car**, release the throttle pedal and apply the brakes.

It is not necessary to move the gear selector as the transmission will downshift automatically.

pg. 36 Emergency towing (pulling)



### **Precautionary steps to observe when towing**

- Steering must be unlocked.
- Observe legal speeds.
- Remember that power brake and power steering assists will not be available when engine is inoperative. Pedal pressure required is 3 - 4 times above normal and greater steering effort must be employed.
- **Towing cars equipped with automatic transmission:**
  - Gear selector in position N. Check transmission oil level (see section titled "Transmission oil").
  - Maximum speed: 20 mph (30 km/h).
  - Maximum distance: 20 miles (30 km).

---

**CARS EQUIPPED WITH AUTOMATIC TRANSMISSION CANNOT BE STARTED BY PUSHING OR PULLING THE CAR.**

**Jump starting, see section titled "alternator, jump starting".**

pg. 37 Towing information



**When preparing for trailer hauling, observe the following:**

- Use a trailer hitch which meets Federal Safety Standards for rear end collisions (FMVSS 301-75) such as those offered as Genuine Volvo Accessories.
- Maximum trailer weight recommended by Volvo is 2,000 lbs (908 kg).

Observe legal requirements of the state in which the vehicles are registered.

**NOTE:**

Additional lighting equipment must be connected to specific points in the electrical system. Otherwise the bulb failure warning light will come on. (See your Volvo Dealer.)

Trailer hauling does not normally present any particular problems, but take into consideration:

- The hitch tongue load should not exceed 200 lbs (90 kgs).
- Engine and transmission are subject to increased loads.
- Avoid overload and other abusive operation.
- Hauling a trailer affects handling, durability and economy.
- It is necessary to balance trailer brakes with the towing vehicle brakes to provide a safe stop (check and observe State regulations).

- More frequent vehicle maintenance is required.

### **Roof rack (removable)**

- Use a sturdy roof rack, intended for the vehicle and rigidly attached.

It is not advisable to let the roof rack remain in place during extended periods of time. Also, an empty roof rack increases drag and fuel consumption.

- Avoid point loads. Distribute the load evenly.
- Place the heavy cargo at bottom of load.
- Observe that center of gravity and handling are influenced by the load weight.
- Increasing load size increases wind resistance.
- Anchor the cargo correctly with a cord.
- Drive carefully. Avoid rapid starts, heavy cornering and heavy braking.
- Max. roof load is 220 lbs (100 kg).

### **Handling, roadholding**

Vehicle load, tire design and inflation pressure are important for proper handling. Therefore check that the tires are inflated to the recommended pressure according to the vehicle load.

It is recommended to use tires of the same make and dimensions on all four wheels.

#### **CAUTION!**

Do not mix radial ply and bias ply tires as this will adversely alter the vehicle handling characteristics.

**WARNING!** do not drive with trunk lid or tailgate open!

Poisonous exhaust gases may enter via the open trunk lid or tailgate. (This is especially true for wagon models.)

If the trunk lid or tailgate for any reason must be open, proceed as follows:

- Close the windows.
- Set the heating system controls for FLOOR and DEF to max. and the blower to full speed (3). See section titled "Heating and Ventilation".

pg. 39 Brake system

### **Air dam (front spoiler)**

A air dam can negatively influence the normal flow of cooling air to the front wheel brakes. Therefore,

special light alloy wheel rims must be used in conjunction with the air dam. (See [page 70](#)).

### **Moisture on brake discs and brake pads affects braking.**

Driving in rain and slush or passing through a normal car wash can cause water to collect on the brake discs and pads. This will cause a delay in braking effect when the pedal is depressed. To avoid such a delay, when the brakes are needed, depress the pedal occasionally when driving.

This will remove the water from the brakes.

This should also be done after washing or starting in very damp weather.

### **If the brake power assist does not function-**

**The power assist to the brakes functions only when the engine is running.** When the car is moving without the engine running the brake pedal pressure required to stop the car is increased 3 - 4 times.

**The brake pedal feels stiff and hard.**

### **Failure in one of the brake circuits**

 **The brake failure warning light goes on**

The pedal stroke increases slightly and the pedal feels softer but the pedal pressure required does not increase noticeably.

**Drive cautiously to a Volvo dealer or Service Station to have the brake system checked.**

### **Breaking in parking brakes**

To obtain best parking brake performance, the brake linings should be broken in.

Stop 5-7 times from 30 mph (50 km/h), transmission in neutral. Apply the parking brake lever, release button pressed in during the stop. The force must not lock the rear wheels. If this happens, release the brake enough to let the wheels rotate. Drive a mile between each stop to cool the brakes. Check for proper parking brake operation.

#### **NOTE:**

The brake lights are not illuminated when applying the parking brake. To warn traffic from behind it is therefore advisable to depress the brake pedal slightly to illuminate the stop lights.

### **Severe strain on the brake system.**

The brakes will be subject to severe strain when driving in mountains or hilly areas.

The speed is usually low which means that the cooling of the brake is less efficient than when driving on level roads.

To reduce the strain on the brakes it is advisable not to use the brakes excessively.

Instead, shift into a lower gear and let the engine help with the braking. A good rule is to use the same gear downhill as would be used uphill. For vehicles with automatic transmission use position 2 or in some cases 1.



## Catalytic Converter Cautions



- Keep your engine properly tuned. Certain engine malfunctions, particularly involving the electrical, fuel or ignition systems, may cause unusually high converter temperatures. **Do not continue to operate your vehicle if you detect engine misfire, noticeable loss of power or other unusual operating conditions**, such as engine overheating, repetitive stalls or backfires. A properly tuned engine will help avoid malfunctions that could damage the Catalytic Converter.
- Remember that tampering or unauthorized modifications to the engine or the vehicle may be illegal and can cause catalyst or exhaust system overheating. This includes:
  - Altering fuel injection settings or components.
  - Adjusting ignition timing beyond specified limits.
  - Altering emission system components or location or removing components.
- Do not park your car over combustible materials, such as grass or leaves, which can come into contact with the hot exhaust system and cause such materials to ignite under certain wind and weather conditions.
- Excessive starter cranking (in excess of one minute) with an intermittently firing or flooded engine, can cause catalyst or exhaust system overheating. This also applies to lengthy pushing or towing of vehicle to start (manual transmissions only).

**NOTE: Unleaded fuel is required for cars with catalytic converter. A label on the instrument panel and rear fender, near the filler inlet, will remind owners and filling station attendant of this requirement.**

**Important! It is unlawful to dispense leaded fuel into any vehicle labeled "unleaded gasoline only".**

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# 1 9 7 9 VOLVO 264 265

pg. 41 Maintenance service

## MAINTENANCE

### Maintenance services

Your Volvo has passed two major inspections before it was delivered to you. One was made at the Volvo factory and one was performed after arrival in the USA, according to Volvo specifications. When driven 600-1,200 miles (1,000-2,000 km), your car should be brought to the Volvo dealer for a service inspection. Engine, transmission and rear axle oils, will be changed at this time.

**Following this inspection, maintenance inspections as outlined in this book should be performed every 7,500 miles (12,500 km).**

The extended maintenance inspection intervals make it even more advisable to follow this program. Inspection and service should also be performed any time a malfunction is observed or suspected. Retain receipts for all vehicle emission services to protect your emission warranty. See your "Warranties and Maintenance Records Manual".

### Maintenance inspection 7,500 mile (12,500 km) intervals

Volvo advises you to follow the inspection program at 7,500 mile or 12,500 km intervals which is outlined in the "Warranties and Maintenance Records Manual". This maintenance program contains inspections and services necessary for the proper functioning of your car over the next 7,500 miles (12,500 km).

The maintenance inspections contain several checks which require special instruments and tools and therefore must be performed by a qualified technician.

To keep your Volvo in top condition, specify time tested and proven Genuine Volvo Parts and Accessories.

### THE FEDERAL CLEAN AIR ACT (USA)

The Clean Air Act requires vehicle manufacturers to furnish written instructions to the ultimate purchaser to assure the proper functioning of those components that control emissions.

The maintenance instructions listed in the "Servicing" section of this Manual represent the minimum maintenance required. These services are not covered by the warranty. You will be required to pay for labor and material used. Refer to your "Warranties and Maintenance Records Manual" for further details.

**pg. 42 Gas station checks****Fuel****Octane rating 91 RON**

**Unleaded fuel must be used** as the vehicles are fitted with catalytic converters.

**Engine oil**

Maintain oil level between the dipstick marks. The distance between the marks represents 2 quarts (2 liters). Engine oil "For API service SE" SAE 10 W-40.

(See section titled "Engine oil".)

**Coolant**

Maintain fluid level between MAX and MIN marks on expansion tank.

Mixture of 50 percent anti-freeze and 50 percent water should be used.

**Washer fluid**

Washer fluid reservoir.

Water and solvent (wintertime use windshield washer anti-freeze).

**Brake fluid****Hydraulic clutch**

Clutch fluid (only cars with manual transmission).

Check that the level is above the MIN mark, without removing the cap.

Brake fluid DOT 4.

**Battery**

Electrolyte level 1/4" - 3/8" (5-10 mm) above plates.

Use distilled water only. **Never** add acid.

**WARNING!**

**battery gases are explosives if brought in contact with open flame or sparks.**

**pg. 43 Engine B27F**



- 1 Data plate
- 2 Compressor (Air conditioner)
- 3 Oil filler cap, engine
- 4 Air cleaner
- 5 Oil dipstick, automatic transmission
- 6 Brake fluid reservoir
- 7 Clutch fluid reservoir (cars with manual transmission)
- 8 Washer fluid reservoir
- 9 Oil dipstick, engine
- 10 Oil reservoir, power steering
- 11 Expansion tank, cooling system
- 12 Battery

pg. 44 Servicing

**1979**  
**MAINTENANCE SCHEDULE**  
**264 265**

**A**= Adjust (Correct if necessary)

**R**= Replace

**I**= Inspect (Correct or Replace if necessary)

**L**= Lubricate

<b>Maintenance Operation</b>	<b>Miles</b>	600-1,200	7,500	15,000	22,500	30,000	37,500	45,000
	<b>(Km)</b>	(1,000-2,000)	(12,500)	(25,000)	(37,500)	(50,000)	(62,500)	(75,000)
<b>EMISSION CONTROL SYSTEM</b>								
<b>I ENGINE MECHANICAL COMPONENTS</b>								
Engine Oil *		R	R	R	R	R	R	R
Engine Oil Filter *		R	R	R	R	R	R	R
Engine Coolant						R		
Cooling System Hoses and Connections		I		I		I		I
Engine Drive Belts		I	I	I	I	I	I	I
Torque Exhaust Manifold Nuts		A						
Valve Clearance						I		
Vacuum Fittings, Hoses and Connections		I		I		I		I
<b>II ENGINE FUEL SYSTEM</b>								
Fuel (Line) Filter				R		R		R
Air Cleaner Filter						R		
Idle RPM		I		I		I		I
Mixture Ratio and Manifold Balance		I		I		I		I
Fuel System Cap, Tank, Lines and Connections		I				I		
Fuel Injection Electrical Connections				I		I		I
Oxygen Sensor				R		R		R
Electrical connections in Lambda-sond, <sup>TM</sup> (Oxygen Sensor) system				I		I		I

\* Oil and oil filter cartridge are first changed at the 600-1,200 mile (1,000-2,000 km) inspection. Subsequent oil and filter changes should be made at 7,500 mile (12,500 km) intervals or **at least every sixth month**. However, adverse conditions (like hot ambient temperatures, trailer hauling, hill climbing, driving long distances at high speeds, extended periods of idling or low speed operation, short trip operation at freezing temperatures) require oil changes more frequently (every third month).

pg. 45 Servicing

## 1979 MAINTENANCE SCHEDULE 264 265

**A**= Adjust (Correct if necessary)

**R**= Replace

**I**= Inspect (Correct or Replace if necessary)

**L**= Lubricate

Maintenance Operation	Miles	600- 1,200	7,500	15,000	22,500	30,000	37,500	45,000
	(Km)	(1,000- 2,000)	(12,500)	(25,000)	(37,500)	(50,000)	(62,500)	(75,000)
<b>EMISSION CONTROL SYSTEM</b>								
<b>III ENGINE IGNITION COMPONENTS</b>								
Spark Plugs			R			R		R
Distributor Advance Mechanism						I		
Ignition Timing	I		I			I		I
Distributor Cap and Rotor			I			I		I
Ignition Wiring			I			I		I
<b>IV ENGINE CRANKCASE VENTILATION SYSTEM</b>								
PCV Nipple (Orifice)			I			I		I
Ventilation Hoses			I			I		I
<b>V ENGINE EXTERNAL EMISSIONS</b>								

Torque Catalyst Mounting Bolts	A		A		A		A
Reset Service Indication System for Oxygen Sensor			A		A		A

pg. 46 Servicing

**1979  
MAINTENANCE SCHEDULE  
264 265**

**A**= Adjust (Correct if necessary)  
**R**= Replace  
**I**= Inspect (Correct or Replace if necessary)  
**L**= Lubricate

Maintenance Operation	Miles	600-1,200	7,500	15,000	22,500	30,000	37,500	45,000
	(Km)	(1,000-2,000)	(12,500)	(25,000)	(37,500)	(50,000)	(62,500)	(75,000)
<b>DRIVE TRAIN</b>								
Manual Transmission Oil	R	I	I	I	I	I	I	I
Automatic Transmission Oil	I	I	I	I	I	I <sup>2</sup>	I	I
Rear Axle Oil	R	I	I	I	I	I	I	I
<b>BRAKES</b>								
Inspect Brakes. Replace components as necessary.		I				I		I
Change Brake Fluid <sup>3</sup>								R
<b>STEERING</b>								
Tire Wear (Align front end if needed.)	I	I	I	I	I	I	I	I
Check power steering fluid level.	I	I	I	I	I	I	I	I
<b>BODY</b>								
Trunk, Door and Hood Hinges and Latches.	L	L	L	L	L	L	L	L



- 1) Check the oil level (at least every sixth month).
- 2) For cars used for hard driving, or in hilly terrain etc, perform preventive service. This includes oil changes every 30,000 miles (50,000 km).
- 3) For cars equipped with air dam, the brake fluid should be changed every 15,000 miles (25,000 km) or once a year.

## pg. 47 Servicing

The following items should be checked weekly by the driver.  
(This only takes a few moments.)

	Description on page
Engine oil level	<a href="#">48</a>
Brake fluid	<a href="#">57</a>
Radiator coolant level	<a href="#">59</a>
Battery fluid level	<a href="#">42</a>
Tire pressures, all five tires	<a href="#">67</a> , <a href="#">89</a>
Operation of all lights	
Horns	
Windshield wipers	
Level of windshield fluid	

	Description on page
The following should also be carried out regular intervals.	
Washing	<a href="#">72</a>
Polishing	<a href="#">72</a>
Cleaning	<a href="#">73</a>
Rust protection	<a href="#">73</a>

## pg. 48 Engine oil



A oil dipstick  
B oil filler hole

### Checking engine oil level

The oil level should be checked each time the fuel tank is refilled. Be sure the oil level is maintained between the upper and lower marks on the dipstick. Low oil level can cause internal damage to the engine and overfilling can result in high oil consumption. The distance between the dipstick marks represents approx. 2 US qts = 2 liters/1.8 Imp. qts. of oil.

### To add oil or change engine oil

Add oil of the same kind as already used.

Capacity 6.9 US qts - 6.5 liters/5.7 Imp. qts. incl. filter

Oil type: API Service SE classification.

Viscosity:

**All year round SAE 10W-40, SAE 10W-30**

**Above +14°F (-10°C) SAE 20W-50**

Replace: Between the first 600-1,200 (1,000-2,000 km) and every 7,500 miles (12,500 km) (or at least **twice a year**).

At temperatures below 0°F(-18°C), multigrade oil SAE 5W-20 or SAE 5W-30 is recommended.

However, this oil should not be used when the temperature is continuously above 32°F(0°C).

Driving under adverse conditions such as high ambient temperatures, trailer hauling, hill climbing, driving long distances at high speeds, extended periods of idling, low speed operation or short trip operation at freezing temperatures may require oil and filter changes more frequently (every third month).

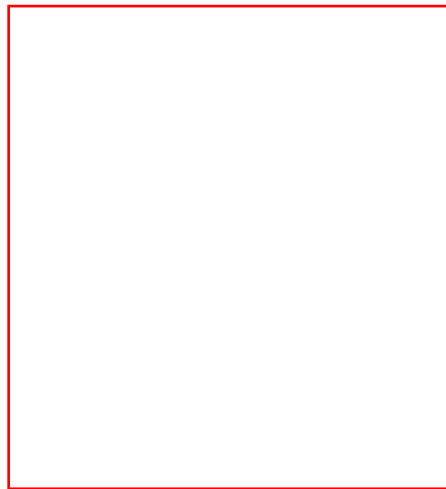
Drain the oil after driving while it is still hot.



### **Changing oil filter**

Replace the oil filter at every oil change. If the oil filter is changed separately, 1/2 US qt = 0.5 liters/1/2 imp. qt. of oil should be added.

pg. 49 Cooling system



### **Changing coolant**

Every two years or 30,000 miles (50,000 km) the cooling system should be drained, flushed and refilled.

Remove the expansion tank cap.

Open the drain cocks on both sides of the engine block and disconnect the lower radiator hose.

**Fill coolant through the expansion tank.**

**The heater controls should be fully open when draining and filling.**

Add coolant until the level is up to the MAX mark or slightly above.



Start engine and run until hot. Check the cooling system connections for tightness. Also re-check the coolant level.

Capacity: 11.5 US qts. = 10.9 liters/9.6 Imp. qts.

### **Cooling system, hoses and connections**

Check all cooling system hoses and connections for defects or deterioration of hoses and loose clamps or fittings.



### **Drive belts**

The belt tension can be checked by depressing the fan belt at a point midway between the alternator and fan. It should be possible to press down the belt about 1/4" - 3/8" (5-10 mm). This also applies to other drive belts on the engine.

pg. 50 Emission control system

## **I Engine Mechanical Components**

### **Torque exhaust manifold nuts**

The manifold nuts should be torqued at the 600-1,200 mile (1,000-2,000 km) inspection. A loose manifold could alter air/fuel ratio and cause an increase in emission and/or poor driveability.

### **Valves**

The valve clearance should be checked every 30,000 miles (50,000 km).

### **Vacuum fittings, hoses and connections**

Unstable idle, misfiring or poor emission control is often caused by leaking vacuum hoses or connections. Check hoses and connections on distributor vacuum unit, connections on heater control servo systems and hydraulic brake servo.

## **II Engine Fuel System**

### **Fuel (91 octane RON)**

Unleaded fuel is **required** for models with catalytic converter (all models).

A label on the instrument panel and on the rear fender, near the filler inlet, will remind of this requirement.

**It is unlawful to dispense leaded fuel into a vehicle labeled "unleaded gasoline only".**

### **CI system**

The B27F engine is provided with a fuel injection system called the CI system (Continuous Injection).

Fuel injectors are open and inject fuel as long as the engine is operating.

This system has few moving parts, is reliable and meets the exhaust emission standards at maximum efficiency.

Air supplied to the engine is continuously measured and determines the amount of fuel injected.

The air flow is regulated by two throttle valves.

The air flow sensor and the fuel distributor are integrally built as a single unit. A lever is actuated by the air flow to produce continuous fuel distribution.

### **Special instructions for work on the fuel injection system**

Extreme cleanliness is essential when working on the injection system. Great care must be observed.

Injection system service should be handled by qualified technicians, using equipment intended for this service.

### **Fuel (line) filter**

The fuel filter is located on the firewall. This filter is to be changed every 15,000 miles (25,000 km). The filter is replaced as one complete unit.

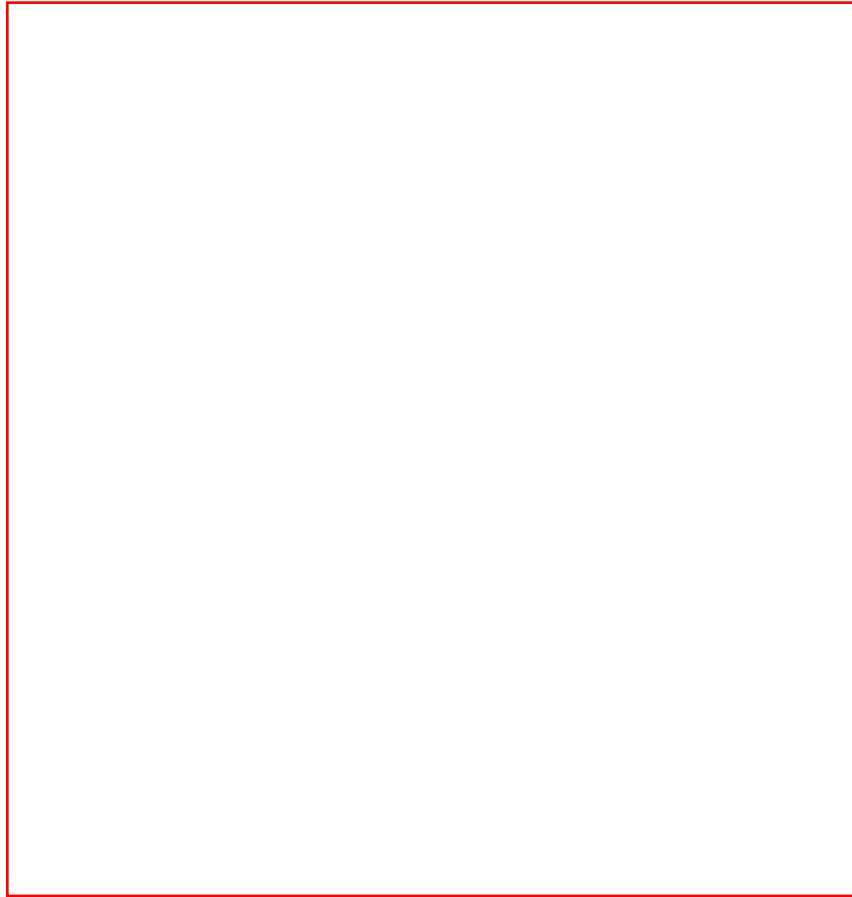
Replace more frequently if contaminated fuel was introduced into the tank.

### **Air cleaner**

Replace the air cleaner cartridge with a new one every 30,000 miles (50,000 km). The cartridge should

be replaced more often when driving under dirty and dusty conditions. The filter cannot be cleaned and, therefore, should always be replaced with a new one.

pg. 51 Emission control system



### **Lambda-sond™ (oxygen sensor) system**

This is an emission control system designed to reduce emissions and improve fuel economy. An oxygen sensor monitors the composition of the exhaust gases leaving the engine. The exhaust gas analysis is fed into an electronic unit which continuously influences a frequency valve. This adjusts the air-fuel ratio to provide optimum conditions for combustion and efficient reduction of the three major pollutants (hydrocarbons, carbon monoxide and nitrous gases) by a 3-way catalytic converter.

### **Change oxygen sensor unit and inspect electrical connections of Lambda-sond™ system.**

The oxygen sensor must be replaced every 15,000 miles (25,000 km).

At the same time the electrical wires and connections of the Lambda-sond™ system should be inspected for chafing and corrosion.

Replace as necessary.

pg. 52 Emission control system

### **Checking and adjusting idle speed and mixture ratio and manifold balance**

This check should be made every 15,000 miles (25,000 km).

The idling speed should also be adjusted and the mixture ratio and manifold balance checked at the 600-1,200 mile (1,000-2,000 km) inspection.

### **Fuel system cap, tank and lines and connections**

The effectiveness of the fuel system to contain hydrocarbons is largely dependent on a leak-free system. Check for proper sealing of gasoline filler cap which contains "O" ring type seals. Check all evaporative hoses in vehicle for tightness. Check fuel lines under vehicle and repair if necessary.

### **Inspection of fuel injection electrical connections**

The electrical connections and fuel lines in the injection system should be checked for chafing and corrosion every 15,000 miles (25,000 km).

## **III Engine Ignition Components**

### **Change spark plugs**

The spark plugs should be changed every 15,000 miles (25,000 km).

However, city driving or fast highway driving may require changing after 7,500 miles (12,500 km) of driving. When fitting new plugs, be sure to fit the right type (Volvo Part No. 273541-4 or equivalent). Torque to 7-10 ft. lbs. (10-14 Nm).

When changing the plugs, check that the suppressor connectors are in good condition. Cracked or damaged connectors should be replaced.

When changing spark plugs, clean the cables and cable terminals, also the rubber seals. If the car is driven on roads where salt is used during the winter, coat the cables with silicone.

### **Distributor cap and rotor**

Check the distributor cap and rotor for wear, cracks, carbon formation, dirt and corrosion.

pg. 53 Emission control system

### **Ignition timing**

#### **Distributor advance mechanism**

The ignition timing should be inspected at the 600-1,200 mile (1,000-2,000 km) inspection and after that every 15,000 miles (25,000 km). All adjusting work should be done with the proper equipment. The distributor is one of the most sensitive engine units. Careless handling can lead to decreased engine output and high fuel consumption or even serious damage to the engine.

The distribute advance mechanism should be checked every 30,000 miles (50,000 km).

### **Ignition wiring**

The ignition system consists of a primary and secondary system. The secondary system contains the

high tension leads connecting the distributor cap with the spark plugs and the coil. These wires should be inspected at each engine tune-up, and should be replaced if cracked, frayed or damaged from abrasion. It is important to clean all parts of this secondary system thoroughly because dirt greatly reduces the available voltage to the spark plugs.

## IV Engine Crankcase Ventilation System



- 1 Calibrated valve
- 2 Flame guard

### **Crankcase ventilation**

The engine is provided with positive crankcase ventilation which prevents crankcase gases from being released into the atmosphere.

Instead, the crankcase gases are admitted to the intake manifold and cylinders.

### **Cleaning PCV valve**

The calibrated positive crankcase ventilation valve should be cleaned every 15,000 miles (25,000 km). Rubber hoses should be checked for damage at the same time. Replace if necessary.

pg. 54 Emission control system

## V Engine External Exhaust Emissions





### **Catalytic Converter**

This is a supplementary device in the exhaust system, designed to clean the remaining dirty exhaust gases.

This device is mainly a container with a ceramic material insert, designed to let the exhaust gases pass through channels in the insert. The channel walls are covered by a thin layer of platina-palladium. These metals act as catalysts, permitting a chemical action to occur without actually taking part in it.

The CO content will increase if the Catalytic Converter is damaged.

Lambda-sond™ equipped vehicles use Catalytic Converters containing platinum and rhodium.

### **Torque catalytic converter mounting bolts**

The Catalytic Converter mounting bolts should be torqued every 15,000 miles (25,000 km).

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### **CAUTION:**

**Vehicles with Catalytic Converter must use unleaded fuel only. Otherwise the Catalytic Converter will become damaged and ineffective.**

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pg. 55 Emission control system

## **VI Engine Evaporative Emissions**



## **Evaporative control system**

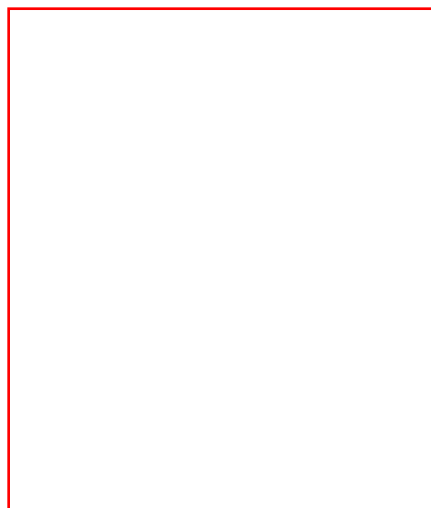
Vehicles intended for the North American market are equipped with a gas vapor evaporative control system, which prevents gas fumes from being released into the atmosphere.

The system is comprised of an expansion area in the fuel tank, a pressure relief valve and a charcoal filter in the engine compartment.

The components are interconnected by hoses which channel fuel fumes from the gas tank to the charcoal filter where they are stored until the engine is started and then drawn into the engine fuel induction system.



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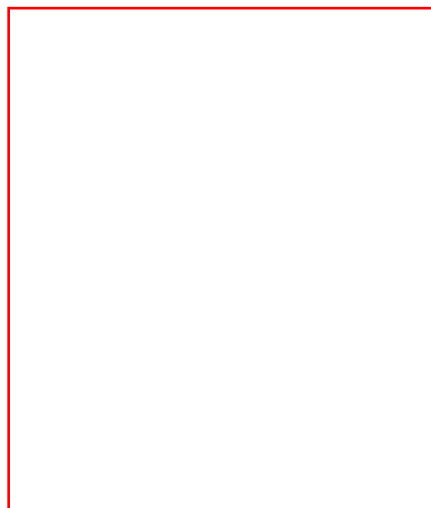
**Manual 4-speed transmission with overdrive, M46**

Capacity: 2.4 US qts = 2.3 liters/2.2 Imp. qts..

Fluid type: Automatic Transmission Fluid Type F or G

Replace: at 600-1,200 mile (1,000-2,000 km) service only.

The oil level should be up to the filler plug(A). Drain the oil immediately after driving, while it is still hot by removing plug (B).



Transmission and overdrive are lubricated by the same oil. Therefore, when the oil is drained through plug B, also remove cover on the overdrive and clean strainer.



## **Automatic transmission**

Capacity: 6.9 US qts = 6.5 liters/5.7 Imp. qts.

Fluid type: Automatic Transmission Fluid type F or G(FLM).

Replace: no oil changes necessary under normal driving conditions.

When checking fluid level, the car should be on level ground, engine idling.

Move the gear selector slowly into all shift positions, then to position P. Wait 2 minutes before checking. (Distance between Max and Min is approx 0.2 US qts=0.2 liters/0.2 Imp. qts.

NOTE: Dipstick graduations are for normal(range A) and cold (range B) transmission oil temperature.

When checking the fluid level, use a rag that will not leave lint.

pg. 57 Rear axle, power steering, brake fluid



## **Rear axle oil**

Capacity: 1.7 US qts - 1.6 liters/1.4 Imp. qts.

Oil type: API GL-5 (MIL-L-2105 B or C)

Viscosity: SAE 90

Replace: at 600-1,200 mile (1,000-2,000 km) service only.

The oil level should be up to the filler plug (A).

Drain rear axle oil through drain plug (B).

When the temperature is steadily below 15° F = -10° C, use API GL-5 SAE 80 W oil.

Cars equipped with limited slip differentials should use oils with proper additives.



### **Power steering**

Capacity: 1.25 US qts = 1.2 liters/1.1 Imp. qts.

Fluid type: ATF

Replace: no fluid change required.

The level should be between the MAX and MIN mark.

Check fluid level with engine idling and after driving while the fluid is still hot. Wipe the reservoir clean.



### **Brake fluid/Clutch fluid (only on cars with manual transmission)**

Fluid type: DOT 4

Replace: every third year or 45,000 miles (75,000 km). The brake fluid should be replaced once a year

or every 15,000 miles (25,000 km) for cars equipped with air dam. The clutch fluid does not need to be changed.

Check, without removing the cap, that the level is above the "MIN" mark of the fluid reservoirs.

Always entrust brake fluid changing to a Volvo dealer.

Change brake fluid every year when driving under extremely hard conditions (mountain driving etc).

pg. 58 Lubrication



### **Chassis maintenance**

To simplify maintenance, your Volvo has been equipped with ball joints, steering rods and propeller shafts that do not require regular lubrication.

Points that normally require lubricating have been packed with very durable grease at the factory and then carefully sealed, eliminating the need for subsequent lubrication.

### **Lubricate body**

To avoid rattles and unnecessary wear, the body should be lubricated once a year. Hinges on hood, doors and trunk lid as well as door stops should be lubricated every 7,500 miles (12,500 km).

During winter, locks in the doors and trunk lid should be treated with special anti-freeze lubricant to prevent freezing.

### **Door Hinges (lower) and door stop**



A. grease B. oil

**No. Lubricating point**

**Lubricant**

1 Hood lock	Paraffin wax
2 Hood hinges	Oil
3 Door hinges(upper)	Grease
4 Sun-roof wind deflector	Oil
5 Door lock outer sliding surfaces	Paraffin wax
6 Trunk lid hinges	Oil
7 Trunk lid lock	Lock oil
8 Door hinges(lower)	Grease
Door stop	Oil
9 Window regulator	Oil, grease
Locking device (Accessible after door upholstery panels removed)	Silicon grease
10 Front seat slide rails and latch devices	Oil
11 Key holes	Lock oil
12 Striker plate	Paraffin wax

pg. 59 Coolant



## Check coolant level

The cooling system must be filled with coolant and not leak to operate at maximum efficiency. Check the coolant level when filling fuel. The level should be between the "Max" and "Min" marks on the expansion tank. The check should be made with particular thoroughness when the engine is new or the cooling system has been drained.

Do not remove the filler cap other than for topping-up with coolant. Frequent removal may prevent coolant circulation between the engine and the expansion tank during engine warming up and cooling.

## Top up with coolant

Top up with coolant by filling the expansion tank when level is at the "Min" mark. Use a mixture of 50 percent anti-freeze/summer coolant and 50 percent water all the year round. Top up to the "Max" mark. If the engine is warm, and you are going to top up coolant, unscrew the cap slowly in order to allow any excess pressure to escape.

Note: Do not top up with water only. Water by itself reduces the rust-protective and anti-freeze qualities of the coolant and has a lower boiling point. It can also cause damage to the cooling system if it should freeze.

pg. 60 Alternator, jump starting

## Note: This car is equipped with an alternator.

When changing the battery or when carrying out work involving the electrical system, the following should be observed:

- 1 A battery connection to the wrong terminal will damage the diodes. Before connections are made, check the polarity of the battery with a voltmeter.
- 2 If booster batteries are used for starting, they must be properly connected to prevent the diodes from being damaged.

For correct connection, see next section, titled jump starting.

- 3 If a fast charger is used for charging the battery, the battery leads should be disconnected.
- 4 Never disconnect the battery circuit (for example, to change the battery) while the engine is running, as this will immediately ruin the alternator.

Always make sure that all the battery connections are properly tightened.

- 5 If any electrical welding work is made on the vehicle, the ground lead and all the connecting cables of the alternator must be disconnected and the welder wires placed as near the welding point as possible.





## Jump starting

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**CAUTION: Improper hook-up of jumper cables could result in damage to equipment and/or battery.**

---

Check that cars are not touching. (To prevent premature completion of negative circuit).  
Using jumper cables, first connect booster battery positive terminal (+) to car battery positive terminal (+). Then connect booster battery negative terminal (-) to a stationary solid metal part on the engine at a point away from the battery. Do not connect to any part of fuel system or any moving parts. Avoid touching hot manifolds.  
After engine has started remove negative terminal (-) jumper cable first then positive terminal (+) jumper cable.

### **WARNING!**

To prevent possible explosion, never expose battery to open flame or electric spark. Do not smoke near battery. Batteries generate Hydrogen gas which is flammable and explosive.  
Battery fluid contains sulfuric acid. Do not allow battery acid to contact eyes, skin, fabrics or painted surfaces. If contact occurs, flush affected area immediately with water.  
Obtain medical attention if eyes are affected.

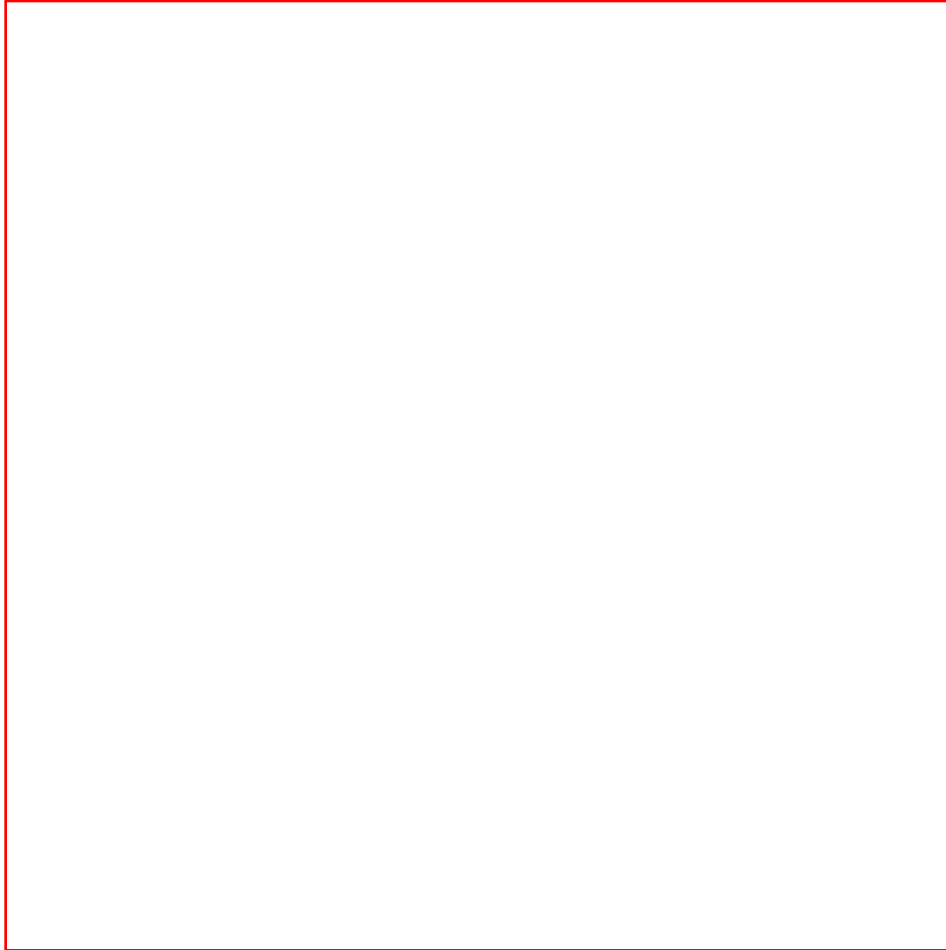
pg. 61 Replacing bulbs

## Replacing bulbs

The replacement of bulbs in the various lighting units is shown on the following pages. Make sure when installing bulbs, that the guide pin on the socket fits into its corresponding recess.

When installing bulbs, do not touch the glass with your fingers. The reason for this is that grease, oil or any other impurities can be carbonized onto the bulb and damage the reflector.

Use bulbs of correct type and voltage. Failure to do so could activate the bulb failure warning light.



### **Replacing sealed beam headlamp units**

1. Press the two plastic screws down and turn them 1/4 turn and remove them.
2. Lift up the rim slightly and remove it forwards.
3. Remove the Phillips screws and rim. Lift out the headlamp unit.
4. Disconnect the socket contact.

Installation is done in the opposite way.

### **Check headlight alignment.**



## Tail lamp bulbs, 264

All tail lamp bulbs are replaced from inside of trunk.

1 Unscrew and remove tail lamp rim. Note that rim is hooked at the upper edge. Lift the lower end out/up and unhook upper edge.

2 Turn bulb holder approx. 3/8" counterclockwise and remove it.

3 Depress bulb in bulb holder, turn it slightly counterclockwise, and remove it.

4 Install a new bulb. Install bulb holder in tail lamp.

### NOTE:

One of the bulb holder tabs is wider and fits only in corresponding recess.

Turn bulb holder clockwise. Check that bulb lights. Replace tail lamp rim.



Bulbs	Power Socket	US Bulb
		No
	<b>CP/W</b>	
1 Stop light	32(21) Ba15s	1073
2 Back up light	32(21) Ba15s	1073
3 Rear turn signal	32(21) Ba15s	1073

4 Tail light	4(5)	Ba15s	67
5 Reflector	-	-	-
6 Tail light, side marker light	4(5)	Ba15s	67

pg. 63 Replacing bulbs



### Front light bulbs

Loosen the Phillips screws and remove the lens. The bulbs can now be removed by pressing them inwards and turning them slightly counterclockwise.

<b>Bulbs</b>	<b>Power CP (W)</b>	<b>Socket</b>
1 Front position Side marker- lights	32(3)	Ba 15d 1)
2 Front turn signal	32(3)	Ba 15d 1)

1) US Bulb No. 1157NA



### Tail lamp bulbs, wagon model

Loosen the Phillips screws and remove the lens. The bulbs can now be removed by pressing them inwards and turning them slightly counterclockwise.

<b>Bulbs</b>	<b>Power</b>	<b>Socket</b>	
	<b>CP(W)</b>		
1 Rear turn signal	32(21)	Ba15s	2)
2 Back-up light	32(21)	Ba15s	2)
3 Stop light	32(21)	Ba15s	2)
4 Tail light	4(5)	Ba15s	3)
4 Side marker light	2(3)	Ba9s	4)

2) US Bulb No. 1073

3) US Bulb No. 67

4) US Bulb No. 57



### Trunk light, 264

Remove screw holding the light assembly. Lift out and to the right to remove.

Replace the bulb.

Reinstall by first inserting the guides into the left side, then press in the light assembly and install screw.

<b>Bulbs</b>	<b>Power Socket</b>
--------------	---------------------

Trunk light, 264	15 W S 8.5
---------------------	------------

pg. 64 Replacing bulbs



### **License plate light, 264**

Insert a screwdriver as shown and carefully pry loose the lamp housing. Take care not to damage the paint. Pull out the lamp housing and replace the bulb. Insert the front edge of the lamp housing and press up the rear edge by hand.

<b>Bulbs</b>	<b>Power Socket</b>
--------------	---------------------

License plate light, 264	4W Ba 9s
--------------------------	----------



### License plate light, wagon model

Insert a screwdriver through the opening in the housing and depress the catch tab. Pull out the housing assembly.



Pull out the cover end which is not provided with a lock pin.

Replace the bulb.

When re-installing, first locate the lock pins (see picture) and then press on the cover.

Check that the rubber gasket is positioned and press the housing assembly into place.

#### **Bulbs**

License plate light,  
wagon

#### **Power Socket**

5W    S 8.5

pg. 65 Replacing bulbs



### Interior light

Insert a screwdriver through the opening in the right side of the housing and depress the catch tab. Pull

out the housing assembly and replace the bulb.

<b>Bulb</b>	<b>Power Socket</b>
-------------	---------------------

Interior light	10W S 8.5
----------------	-----------



### **Engine compartment light**

Remove screw holding the lamp assembly and lift it to the right.

Replace the bulb.

Install the lamp, first insert the guides on the right side in the recess, then press in the lamp and install the screw.

<b>Bulb</b>	<b>Power Socket</b>
-------------	---------------------

Engine compartment light	15W S 8.5
--------------------------	-----------

### **Instrument and heater control lighting**

Due to the location of these bulbs, their replacement should be carried out by a Volvo dealer.

pg. 66 Fuses





## Replacing fuses

The fuse box is positioned in front of the left front door pillar.

When replacing fuses, check that the right amperage is used.

**Never** use fuses of higher amperage. If one fuse repeatedly fails, take the car to your Volvo dealer for fault-tracing.

Reading downwards the fuses protect the following:

1 Cigarette lighter, Electrically operated side mirrors, Power antenna (auxiliary equipment), Tailgate wiper	8 A
2 Windshield wiper/washer, Horn	16A
3 Heater blower	16A
4 Seat belt warning, Ignition key buzzer	8A
5 Fuel feed pump	8A
6 Brake light, Relay, interior light	8A
7 Fuel pump	16A
8 Interior light, Glove box light, Clock, Trunk light, Engine compartment light	8A
9 Hazard warning flashers	8A
10 Window lifts	16A
11 Overdrive, El. heated rear window	16A
12 Back-up lights, Relay, window lifts, Heated driver's seat, Air conditioning	8A
13 Instruments, Turn signals, Seat belt warning light, Temperature warning light, Relay, fuel injection	8A
14 Spare	
15 Parking light, left side, License plate, Side marker light (Wagon)	8A
16 Parking light, right side, Light on instruments and controls, Buzzer, headlights and key	8A
17 Fuse storage, spare	

## pg. 67 Wheels and tires

### Checking and correcting tire pressure

Check the tire pressure when refueling.

The tire pressure should only be corrected when the tires are cold.

With warm tires, correct only when the pressure is too low. The tire temperature rises after driving just a few miles.

### Tire pressures, cold tires, psi(kPa)

Model	Tire	Normal speed				>75 mph (120 km/h)		Vehicle capacity weight
		1-3 pers		Full load				
		Front	Rear	Front	Rear	Front	Rear	
264	185/70 R 14	27 (190)	27 (190)	28 (200)	32 (230)	28 (200)	32 (230)	920
265	185 R 14	27 (190)	30 (210)	28 (200)	36 (250)	28 (200)	36 (250)	990

See Consumer Information Booklet for complete tire pressure information.

### Wear indicator

The tires have a so-called "wear indicator" in the form of a number of narrow strips running across or parallel to the tread. When approx. 1/16" = 1.5 mm is left on the tread, these strips show up and indicate the tire should be replaced.

Tires with less than 1/16" tread have a very poor grip in rain or snow.

### How to improve tire economy

- Maintain correct tire pressure.
- Drive smoothly: avoid fast starts, hard braking and tire screeching.
- Tire wear increases with speed.
- Do not change wheel location unless necessary.
- Correct front wheel alignment is very important.
- Unbalanced wheels impair tire economy and driving comfort.
- Hitting curbs can damage the tires permanently.

pg. 68 Wheel changing



### **Changing a wheel**

Spare wheel, jack and tool kit are stowed to the left in the trunk. Apply the parking brake, engage first or reverse gear (for automatic transmission use position P). Chock the wheels standing on the ground. Use the screw driver in the tool kit to loosen the wheel cap.

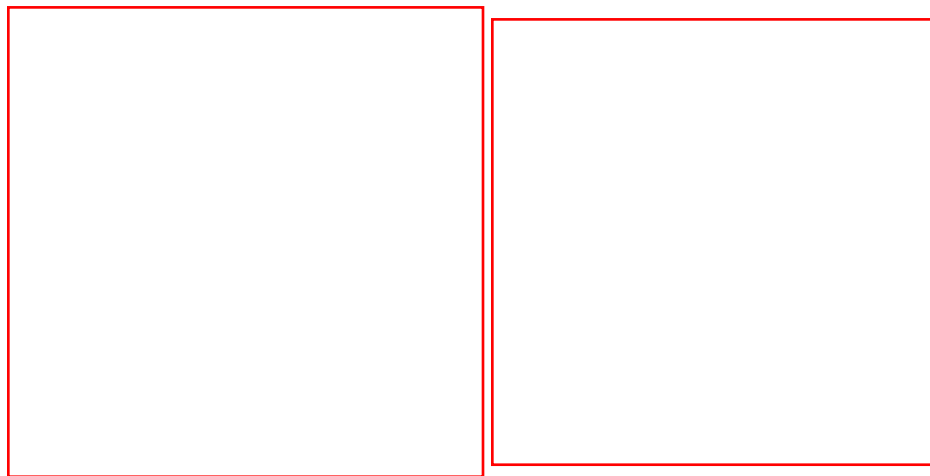


### **Removal**

Use the wrench to loosen the wheel nuts 1/2-1 turn. Turn counterclockwise to loosen.

**Note:** To avoid excessive tire wear and rebalancing, mark and reinstall wheels in same location and position as before removal.

pg. 69 Wheel changing



Place the jack in the jack attachment closest to the wheel to be changed. There is one jack attachment at each wheel.

As shown, there are two types of jacks, one for the 264 and one for the 265.

Make sure the jack arm is properly inserted in the attachment, as shown above.

Lift the vehicle until the wheel is free from the ground.

Remove the wheel nuts and lift off the wheel. Be careful not to damage the wheel bolt threads.

#### **NOTE:**

**Do not rotate a raised rear wheel if the car is equipped with a limited slip differential. This will also move the opposite wheel on the ground and the car may slide off the jack.**

#### **WARNING!**

- Never crawl under a car supported by a jack.
- Use the jack intended for the car when replacing a wheel. For any other job use stands to support the end of the car being worked on.
- Apply the parking brake, engage first or reverse gear (pos. P for cars equipped with automatic transmission).
- Chock the wheels standing on the ground. Use rigid wooden blocks or large stones.

#### **Installation**

- Clean contact surfaces on wheel and hub.
- Lift on the wheel. Install the wheel nuts and tighten lightly.
- Lower the vehicle and tighten the nuts alternately to 71-100 ft.lbs (100-130 Nm).
- Install the wheel cap, make sure the recesses are correctly aligned.

## pg. 70 Wheels and tires

### Winter Season

Studded snow tires require a running-in period of 300-600 miles to set the studs properly in the tires. Hard acceleration, braking or cornering should be avoided.

Tires should always be installed on same side of vehicle as before so they rotate in same direction as before removal.

Use Volvo approved winter wheels for maximum safety.

Tire **chains** can be used on the rear wheels if the chains do not project too far from the tire and chafe against the brake caliper or other components.

Strap-on emergency chains must not be used since the space between the brake caliper and the wheel rim is inadequate.

### **WARNING!**

#### **Air dam (front spoiler)**

Air dams can negatively influence the normal flow of air to the front wheel brakes. Therefore, special light alloy wheel rims must be used in conjunction with the air dam.

#### **Special wheel rims**

Only special wheel rims, tested and approved by AB Volvo, are suitable for use with air dams.

## pg. 71 Replacing wiper blades



## Replacing wiper blades

Fold the wiper arm outward. Press in the shiny lock spring on the wiper arm backside(1) (or use a screwdriver to bend up the thin shiny sheet metal tab on the wiper arm front side 1a).

Pull out the wiper blade(2).

Push on the new wiper blade and **check for correct attachment**.

**NOTE:** For improved driving safety, replace the wiper blades when they start to wipe inefficiently.



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## pg. 72 Washing, cleaning

### **Washing**

The car should be washed at regular intervals since dirt, dust, insects and tar spots adhere to the paint and may cause damage.

When washing the car, do not expose it to direct sunlight. Use lukewarm water to soften the dirt before you wash with a sponge, and plenty of water, to avoid scratching.

A detergent can be used to facilitate the softening of dirt and oil.

Special car washing detergent or household detergent can be used. A suitable mixture is about 2.5 fl. oz. (8.5 cl) of detergent to 2.6 US gal. = 10 liters/2.2 Imp. gal. of warm water. After washing with a detergent the car should be well rinsed with clean water.

A water soluble grease solvent may be used in cases of sticky dirt. However, use a washplace equipped with a drainage separator.

Dry the car with a clean chamois and remember to clean the drain holes in the doors and rocker panels. Tar spots can be removed with kerosene or tar remover after the car has been washed.

**Note:** It is particularly important to wash the car frequently in the winter time, to prevent corrosion, when salt has been used on the roads.

### **NOTE:**

**When the car is driven immediately after being washed, brake the car now and again in order to remove any moisture from the brake linings.**

### **Chromed parts**

Chromium-plated and anodized parts should be washed with clean water as soon as they become dirty. This is particularly important if you drive on gravel roads or on roads where salt is used during the winter. After the car has been washed, apply wax or an anti-rust preparation.

Stains on chrome trim can be removed with commercially available chrome cleaner. Do not use abrasive compounds or steel wool.

### **Polishing (waxing)**

Polishing and waxing is not necessary unless a glossy surface can no longer be obtained by normal car washing.

Normally, polishing is not required during the first year after delivery, however, waxing may be beneficial.

Before applying polish or wax the car must be washed and dried. Tar spots can be removed with kerosene or tar remover. Difficult spots may require a fine rubbing compound.

After polishing use liquid or paste wax.

Several commercially available products contain both polish and wax. Waxing alone does not substitute for polishing of a dull surface.

## pg. 73 Cleaning

### **Cleaning the upholstery**

Generally the **fabric** can be cleaned with soapy water or a detergent. For more difficult spots caused by oil, ice cream, shoe polish, grease, etc., use a stain remover.

The **Plastic** in the upholstery can be washed.

To clean **leather upholstery**, use soft cloth and mild soap solution, for instance common bath soap. For more difficult spots, consult an expert for the choice of cleaning agent.

**On no account must gasoline, naphtha or similar cleaning agents be used on the plastic or the leather since these can cause damage.**

When aging, leather changes appearance, but the typical texture remains. To preserve smoothness and appearance, it is recommended to treat the leather with a special leather preservative after one or two years of use.

### **Cleaning floor mats**

The floor mats should be vacuumed or brushed clean regularly, especially during the winter when they should be taken out for drying.

Spots on textile mats can be removed with a mild detergent.

### **Anti-rust treatment**

Your Volvo has been rust protected at the factory. On external surfaces a heavy coat of wear resistant material has been used, while on the internal surfaces a lighter rust protector is used.

The external rust protection should be inspected regularly or at least once per year.

If the rust protection has been penetrated a repair should be made as soon as possible to prevent moisture from entering between the metal and coating. Carefully clean and remove any rust prior to repair of the rust protective coating.

The internal rust protection should normally be renewed first time after 36 months and then at least every 24th month.

## pg. 74 Paint touch-up

### **Paint touch-up**

Paint damage requires immediate attention to avoid rusting. Make it a habit to check the finish regularly, for instance when washing the car. Touch-up if necessary.

Paint repairs require special equipment and skill. Contact your Volvo dealer for any extensive damages. Minor scratches can be repaired by using Volvo touch-up paint.

**Note:** When ordering touch-up paint from your Volvo dealer, use the paint code indicated on the service label. The label is located on the rear portion of the right front door.





### **Minor stone chips and scratches**

Material:

Rust remover

Primer - brush on type

Surface finish - brush on type

(The paint pen head also contains grinding paste for subsequent treatment.)

Penknife or similar

Brush

**Note:** When touching-up the car, it should be well cleaned and dry and have a surface temperature above 60°F(+15°C).

**Scars on the surface** (where the paint has not been completely penetrated). Repairs can be made directly after light scraping to remove dirt.

**Deep scars**, (down to the bare metal):

1 Scrape or sand the damaged surface lightly and break the edges of the scar.

Apply the rust remover. (Avoid contact with eyes and skin!). Wait a few minutes and then rinse carefully with water and wipe dry.



2 Thoroughly mix the primer and apply it with a small brush.



When the primer surface is dry, the paint can be applied using a brush.  
Mix the paint thoroughly, apply several thin paint coats and let dry after each application.

pg. 75 Paint touch-up



3 If there is a longer scratch, you may want to mask to protect surrounding paint.

### **Touching-up damaged paint on fender edges and sills**

Material:

Rust remover

Primer - spray

Surface finish - spray

Sand paper (H 150 - 300 grit)

Thinner

**Note:** When touching-up the car, it should be well cleaned and dry and have a temperature exceeding 60° F (+15° C).

**NOTICE!** Spray paint may contain saturated chlorofluorocarbon propellant, sale of which may be illegal in certain areas.

Mask with tape and paper prior to painting larger surfaces. Remove the masking immediately after application of the last paint coat, before the paint starts to dry.

Touching-up is as follows:

1 Remove paint flakes.

2 Sand the damaged surface and wash it clean with thinner.

Apply the rust remover. (Avoid contact with skin!) Wait a few minutes and then rinse carefully with water and wipe dry.



3 Shake the spray can for at least 1 minute. Spray on the primer. Move the can slowly and evenly back and forth over the spot and about 8-12 in. (20-30 cm) from the surface. Protect the surrounding surfaces with suitable paper.

4 When the primer has dried, apply the surface enamel in the same way. Spray on several times and allow the paint to dry a minute or so between each application.

pg. 76 Long distance trips

### **Prior to a long distance trip**

Have your car checked at a Volvo dealer. Preventive maintenance will help to ensure a trouble free trip. Remember to take along a Volvo dealer directory.

The main items to check are listed below:

1. Brakes, front wheel alignment and steering gear.
2. Engine running condition.
3. Fuel system operation.
4. Oil leaks: engine, transmission, rear axle.
5. Cooling system for leaks or worn hoses.
6. Examine tires carefully, replace worn tires.
7. Battery and terminals.
8. Tool equipment.
9. Lighting.
10. Drive belts, for tightness and wear.

pg. 77 Cold weather

### **Engine cooling system**

A good quality anti-freeze/summer coolant should be used all year round. The cooling system should always contain water plus anti-freeze and rust inhibitor, even during the summer. Experience has also shown that extremely weak anti-freeze solutions (10-25 percent) are ineffective for rust protection. For this reason, the quantity of anti-freeze/summer coolant should amount to about 50 percent of the solution, that is 5.8 US qts. = 5.5 liters/4.8 Imp. qts. This lowers the freezing point to -30° F (-35° C). Alcohol must not be used as an anti-freeze agent since it evaporates at normal engine temperature.

### **Engine fuel system**

During the winter, large variations in temperature cause condensation to form in the fuel tank and can impair the running of the engine.

This can be eliminated by adding special additives to the fuel. There is less risk of condensation forming in the fuel tank if it is kept full.

### **Engine lubricating system**

During the winter, multigrade oil 10W-40 should be used in the engine. At very low temperatures below 0° F (-20° C), multigrade oil SAE 5W-20 or SAE 5W-30 is recommended. These oils reach the lubricating points in the engine more easily at low temperature and also facilitate cold starting. **See section titled "Engine oil".**

### **Electrical system**

The electrical system is subject to great stresses during the winter. Lighting and starter motor are used more often. The battery capacity is impaired at low air temperature. The state of charge must be checked more frequently, and if necessary the battery should be charged. The battery may freeze if the state of charge is low.

### **Brake system**

During cold weather the brakes are subject to splash and condensation which can result in the parking brake freezing up, especially if applied for long periods of time. Use of first or reverse gear on a manual transmission or position See section titled "Brake System".

### **Windshield washers**

Anti-freeze should also be added to the water container for the windshield and rear window (Wagon model) washer.

This is particularly important during the winter because the windshield frequently becomes dirty and is often splashed with water which rapidly freezes. This may necessitate the frequent use of the windshield washer and wipers. Your Volvo dealer can supply you with suitable anti-freeze for this purpose.

### **Anti-freeze for door locks**

Lubricate the outside locks with a suitable anti-freeze. Such agents are commercially available and should be used before the first frost.



Volvo supports Voluntary Mechanic Certification by the N.I.A.S.E. Certified mechanics have demonstrated a high degree of competence in specific areas.

Besides passing exams each mechanic must also have worked in the field for two or more years before a certificate is issued.

These professional mechanics are fully able to analyze vehicle problems and perform the necessary service procedures to keep your Volvo at peak operating condition.

**Note!** The above pertains to USA only.

The diagnoses outlined below are intended to serve as a guide to locate and temporarily correct minor faults. Causes of unsatisfactory performance should be investigated and corrected by your Volvo dealer.

NOTE: The points indicated by an asterisk (\*) should be checked by your Volvo dealer.

**Condition: Starter fails to operate (or operates very slowly)**

Possible cause	Correction
Weak battery or dead cell.	With the ignition switch in the "Driving" or "On" position, check to see if the warning lights on the dashboard come on and if they stay on when the starter is engaged. If the lights do not come on or if they go off when the starter is engaged, the battery is discharged or see below.

Loose or corroded battery cable terminals.	Check battery terminals and clamps. Clean or replace if necessary. Check that the starter cable is secure at its terminals. The ground strap, which connects the body to the rear of the engine, should also be checked for corrosion or looseness.
Open circuit between ignition/starter switch and ignition switch terminal on starter.	The circuit is closed if a clicking sound is heard from the starter when it is engaged. If no clicking sound is heard, check that the blue wire at the starter is secure. If still no clicking sound is heard, the ignition switch or the wire is defective.
Starter motor defective.	If the above checks have been performed, and no fault is evident, the starter may be defective. NOTE: In this case the headlight intensity will not dim when the starter is engaged.

pg. 80 Service diagnosis

**Condition: Starter motor operates but engine does not start**

Possible cause	Correction
Intake system leaking.	Check vacuum hose connections at manifold and auxiliary air valve.
No fuel reaching engine.	Check for fuel in the tank. Check fuses No 5, 7 and 13.
No spark	Remove one spark plug wire and unscrew the radio interference suppressor. Hold the wire approx. 3/8" (10 mm) from the valve cover and run the starter. If there is no spark, check that the high tension lead from the coil to the distributor cap is connected and that the wires to the distributor and coil are connected.
Spark plugs, high tension leads or distributor cap wet or defective.	Clean the parts with a dry cloth or spray with a moisture remover. Replace defective or worn parts.
Cold start injector defective.	Test the cold start injector function with cold and hot engine.*
Rest pressure incorrect.	Test rest pressure and the fuel system for leaks.*

	If no fault is found following the above steps, contact your Volvo dealer.
--	--

\* Should be checked by a Volvo dealer.

## pg. 81 Service diagnosis

### Condition: Erratic idle (misfiring)

Possible cause	Correction
Intake system leaking.	Check vacuum hose connections at manifold and auxiliary air valve.
Spark plugs, high tension leads or distributor cap worn (defective).	Clean distributor cap and leads, check the cap for cracks. Replace defective or worn parts.
Worn spark plugs.	Remove. Clean or replace spark plugs.
Cold start injector leaking.	Test the injector function.*
Uneven compression.	Test compression.*

### Condition: Engine stalls at irregular intervals

Possible cause	Correction
Defective wires.	Check wire terminals at: fuel pump, fuse No. 5 and 7, coil, distributor, ignition switch and relays.
Intake system leaking.	Check vacuum hose connections at manifold and auxiliary air valve.
Low idle speed.	Adjust.*
Fuel filter clogged.	Clean fuel tank filter and replace line fuel filter.

\* Should be checked by a Volvo dealer.

## pg. 82 Service diagnosis

### Condition: Low top speed, loss of power

Possible cause	Correction

Air filter clogged.	Check air filter.*
Throttle misadjusted.	Check that the throttle touches the high speed stop when the accelerator is fully depressed.*
Incorrect timing.	Check and adjust.*
Fuel filter clogged.	Clean fuel tank filter and replace fuel line filter.*

### Condition: Excessive fuel consumption

Possible cause	Correction
Fuel lines leaking.	Check tightness.
Spark plugs worn	Replace plugs.
Incorrect timing.	Check/adjust.*
Air filter clogged.	Check/replace.*
Control pressure incorrect.	Check/replace control pressure regulator.*
Cold start injector leaking.	Replace injector.* (A leaking cold start injector also causes uneven idle and hard starting.)

\* Should be checked by a Volvo dealer.

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### Condition: Dieseling

Possible cause	Correction
Injector leaking.	Check air flow sensor plate and rest pressure.*

### Condition: Misfiring at highway driving speed

Possible cause	Correction
Spark plugs fouled.	Drive the vehicle in a lower gear and keep the engine rpm higher for a few miles in order to remove carbon deposit on the spark plugs. If this procedure is not effective, clean or replace the spark plugs.



\* Should be checked by a Volvo dealer.

## pg. 84 Specifications

### **Type designations**

The VIN number should always be quoted in all correspondence concerning your vehicle with the dealer and when ordering parts.

### **1 Vehicle Identification Number (VIN)**

VIN plate is located on the body on the left windshield pillar. The VIN is also stamped on the right hand door pillar.

### **2 Vehicle Emission Control Information**

Your Volvo has been built to comply with all U.S.A. and Canada anti-pollution regulations and evidence of this can be verified from the certification label on the left wheel valance. For further information regarding these regulations, please consult your Volvo dealer.

### **3 Model Plate**

Vehicle Identification Number (VIN), Version Identification Code (VIC) with information on engine type, emission equipment, etc. Gross Vehicle Weight (GVW). This plate is located on right wheel valance.

### **4 Loads and Tire Pressures**

### **5 Federal Motor Vehicle Safety Standards (FMVSS) specifications**

These two labels are located on rear facing side of the left front door.

### **6 Service Label**

Label on the rear portion of the right front door. information on certain components and codes for color and upholstery.



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## VOLVO

### 264 265

#### pg. 85 Specifications

<b>Dimensions and weights</b>	<b>264</b>	<b>265</b>
Length	192.5" (489 cm)	192.5" (489 cm)
Width	67.3" (171 cm)	67.3" (171 cm)
Height, curb weight	56.3" (143 cm)	57.5" (146 cm)
Wheelbase	104.3" (265 cm)	104.3" (265 cm)
Ground clearance (full load)	4.7" (12 cm)	4.7" (12 cm)
Track, front	56.3" (143 cm)	56.3" (143 cm)
Track, rear	53.5" (136 cm)	53.5" (136 cm)
Turning circle (between curbs)	32.2' (9.8 cm)	32.2' (9.8 cm)
Curb weight (depending on type)	3160-3225 lbs (1435-1465 kg)	3260-3305 lbs (1480-1500 kg)
Gross vehicle weight (GVW)	4190 lbs (1900 kg)	4300 lbs (1950 kg)
Capacity weight	920 lbs	990 lbs
Permissible axle weight, front	2050 lbs (930 kg)	2050 lbs (930 kg)
Permissible axle weight, rear	2180 lbs (990 kg)	2600 lbs (1180 kg)
Max. trailer weight	2000 lbs (908 kg)	2000 lbs (908 kg)
Max. hitch load	200 lbs. (90 kg)	200 lbs. (90 kg)
<b>Cargo Space</b>	<b>265</b>	
Length with rear seat up	44.5" (113 cm)	
Length with rear seat down	74.0" (188 cm)	
Maximum width	53.1" (135 cm)	
Height	32.9" (84 cm)	
Volume with rear seat up	41 cu. ft.(1.2 m3)	
Volume with rear seat down	76 cu. ft.(2.15 m3)	
Cargo opening, maximum width	45.7" (116 cm)	

Cargo opening, maximum height 30.7" (78 cm)

## Capacities

Fuel tank	15.8 US gals = 60 liters/13.2 Imp. gals.
Cooling system	11.5 US qts = 10.9 liters/9.6 Imp. qts.
Oil capacity:	
- engine, at oil change	6.9 US qts = 6.5 liters/5.7 Imp. qts.
- engine, excl. oil filter	6.3 US qts = 6.0 liters/5.3 Imp. qts.
transmission(M46)	2.4 US qts = 2.3 liters/2.2 Imp. qts.
(BW55)	6.9 US qts = 6.5 liters/5.7 Imp. qts.
rear axle	1.7 US qts = 1.6 liters/1.4 Imp. qts.
steering gear, power	1.25 US qts = 1.2 liters/1.1 Imp. qts.

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## ENGINE

Liquid-cooled, gasoline, 6-cylinder V-engine with 90° angle. Aluminum cylinder block with cast iron, replaceable wet liners. Aluminum cylinder head has separate inlet and exhaust passages. Single, overhead camshafts.

Engine lubrication is provided by a gear pump driven from the crankshaft. Full-flow type oil filter.

Exhaust emission control accomplished by fuel injection. Lambda-sond™ system and catalytic converter.

Close crankcase ventilation system and evaporative emission control system.

<b>Type designation</b>	<b>Volvo B 27 F</b>
Output (SAE J 245) at rpm	127 hp(95 kW)/5500
Max. torque (SAE J 245) at rpm	146 ft. lbs.(198 Nm) /2750
Number of cylinders	6
Bore	3.46" (88 mm)
Stroke	2.87" (73 mm)
Displacement	2.66 liters

Compression ratio	8.8:1
Valve clearance cold engine	
inlet	0.004-0.006" (0.10-0.15 mm)
exhaust	0.010-0.012" (0.25-0.30 mm)

### Cooling system

Type:	Positive pressure, closed system
Thermostat begins to open at	188°F (82°C)
- fully open at	199°F (92°C)
Fan belts, designation	HC-38 X 1100

### Fuel System

The engine is equipped with fuel injection system.

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### Ignition System

Firing order	1-6-3-5-2-4
Ignition setting stroboscope setting with vacuum regulator disconnected, AC off	10-°+/-2° BTDC (at 700 - 800 rpm)
Spark plugs	Volvo Part No. 273541-3 (or equivalent)
Spark plug gap	0.028-0.032" (0.7-0.8 mm)
Tightening torque	7-10 ft. lbs. (10-14 Nm)
Distributor, direction of rotation	Clockwise

### ELECTRICAL SYSTEM

12 V, negative ground.

Voltage-controlled alternator. Single-wire system with chassis and engine used as conductors.

Voltage	12 V
Battery, type	Noack 12 H 70 B op*
-Capacity	70 Ah
-Electrolyte, specific gravity	1.28

-Recharge at	1.21
Alternator , rated output	980 W
- max. current	70 A
*or equivalent	

Lights, 12 V	US bulb No.	Power	Socket	No. of bulbs
Headlights, inner	4x6 1/2" Type 1A	Sealed Beam		2
Headlights, outer	4x6 1/2" Type 2A	Sealed Beam		2
Position Lights, front	1157 NA	32/3 cp	Ba 15d	2
Turn Signals, front	1157 NA	32/3 cp	Ba 15d	2
Turn Signals, rear	1073	21 W/32 cp	Ba 15s	2
Tail lights	67	5 W/4 cp	Ba 15s	4(265:2)
Stop Lights	1073	21 W/32 cp	Ba 15s	2
Back-up Lights	1073	21 W/32 cp	Ba 15s	2
Side Marker Lights	57	3 W/2 cp	Ba 9s	2(265)

The following bulbs may be obtained from your nearest Volvo dealer.

Rear Ash Tray Light	1.2 W	W1.8d	1
License Plate Light, 264	4 W	Ba9s	2
License Plate Light, Wagon	5 W	S 8.5	2
Interior Light	10 W	S 8.5	1(265:2)
Glove box Light	2 W	Ba9s	1
Instrument Panel Light	2 W	Ba7s	3
Control Panel Light	1.2 W	W 1.8d	3
Shift positions, Auto Transmission	1.2 W	W 1.8d	1
Engine Compartment Light	15 W	S 8.5	1
Trunk Light	15 W	S 8.5	1
Warning Lamps			

Charging	1.2 W	W 1.8d	1
Turn Signals	1.2 W	W 1.8d	2
Brake Failure	1.2 W	W 1.8d	1
Parking Brake	1.2 W	W 1.8d	1
Headlights	1.2 W	W 1.8d	1
Oil Pressure	1.2 W	W 1.8d	1
Overdrive	1.2 W	W 1.8d	1
Warning Flashers	1.2 W	W 1.8d	1
El. Heated Window	1.2 W	W 1.8d	1
Oxygen Sensor Reminder	1.2 W	W 1.8d	1
Seat Belts	2 W	Ba9s	2
Bulb Failure	1.2 W	W 1.8d	1

## pg. 88 Specifications

### Front End

Suspension is of the McPherson type with the shock absorber mounted in a strut in the coil spring.  
 Rack and pinion steering gear.  
 Safety steering column.

### Front wheel alignment

The alignment specifications apply to an unloaded car but include fuel, coolant and spare wheel.  
 Toe-in, : 1/8" = 0.12 +/- 0.06" (3.0 +/- 1.5 mm), power steering  
 Camber : 0° to - 1° difference not to exceed 1/2° between left and right side.  
 Caster : not adjustable

**POWER TRANSMISSION**

Cable-operated clutch on the single, dry-plate type.

Floor-shift operated manual transmission has four synchromesh forward gears, one reverse and electrically operated overdrive.

Optional automatic transmission.

Hypoid type final drive. Limited slip differential is optional.

**Transmission**

**Type designation:** M46 BW55

Reduction ratios:

1st gear	3.71:1	2.45:1
2nd gear	2.16:1	1.45:1
3rd gear	1.37:1	1.00:1
4th gear	1.00:1	---
Overdrive	0.80:1	---
Reverse	3.68:1	2.21:1
<b>Rear axle</b>	<b>3.73:1</b>	<b>3.54:1</b>

**Speeds in mph (km/h) at 1000 engine rpm****Transmission: M46**

Rear axle ratio	3.73:1
1st gear	5.2(8.3)
2nd gear	8.9(14.3)
3rd gear	14.0(22.5)
4th gear	19.1(30.8)
Overdrive	23.9(38.5)
Reverse	5.2(8.4)

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**Recommended max. and min. speeds, mph (km/h)**

1st gear	2nd gear	3rd gear	4th gear
----------	----------	----------	----------



-30(-50)	15-53(20-85)	22-85(35-135)	28*-(45)
----------	--------------	---------------	----------

\*40 mph(65km/h) with overdrive engaged

### Tool kit

Wheel nut wrench and spark plug wrench.

2 screwdrivers (1 Phillips, 1 standard)

Tommy bar.

2 open end wrenches.

### Tire Pressures

Model	Tire	Normal speed				>75 mph (120 km/h)		Vehicle capacity weight
		1-3 pers		Full load				
		Front	Rear	Front	Rear	Front	Rear	
264	185/70 R 14	27 (190)	27 (190)	28 (200)	32 (230)	28 (200)	32 (230)	920
265	185 R 14	27 (190)	30 (210)	28 (200)	36 (250)	28 (200)	36 (250)	990

See Consumer Information Booklet for complete tire pressure information.

## pg. 90 Volvo Service Manuals

Service Manuals for your Volvo are available for purchase. These are the same used by competent Volvo technicians. Each major system in the car is covered by an individual Manual. These are grouped into ten sections and placed into a five-binder system. (Note that manuals and binders may be obtained separately or in preassembled sets.)

Major sections within the five-binder system include: 0-General Information; 1-Service and Maintenance Instruction; 2-Engine; 3-Electrical System; 4-Power Transmission; 5-Brakes; 6-Front End and Steering; 7-Frame Suspension and Wheels; 8-Body; 9-Accessories and Other Equipment.

A Service Manual Brochure and Order Form was placed in the car prior to delivery from the dealer to you. Complete ordering information is provided.

Please note that these manuals may be offered for sale by your Volvo dealer. Prices charged by the dealer can vary from those listed in the brochure (according to Federal law).

Additional copies of the Brochure and Order Form may be obtained from your Volvo dealer, or by mail directly from:

Volvo of America Corporation

Rockleigh Industrial Park  
Rockleigh, New Jersey 07647  
Attention: Volvo Service Literature

**Note that the above pertains to vehicles sold in the U.S.A. only.**



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## Addendum





## **AIR CONDITIONING - ADJUSTABLE THERMOSTAT**

Some 1979 Models may contain an adjustable thermostat control in place of the AIR COND rocker switch. This instruction explains how to use the control.

NOTE: The FAN switch should be set to position 3 for rapid cooling.

### **AIR COND (Compressor) control**

Start the air conditioning compressor by turning the control knob clockwise toward MAX. For rapid cooling, position the knob into the yellow range beyond MAX. After the desired temperature is reached re-position the control knob into the blue range.

**At cruising speeds, the knob should be kept within the blue range.** If it remains in the yellow range, icing may occur and result in decreased cooling capacity.

### **TEMP control**

When using the air conditioner for cooling, the TEMP control should be set to COOL position, fully left. Use the AIR COND (compressor) control to regulate the temperature.

Back Cover

## **When filling gas always check:**

Fuel: Octane rating 91 RON (Unleaded)



In the Owner's Manual you will find instructions on how to replace bulbs on [page 61](#)

... how to replace fuses on [page 66](#)

... how to change a wheel on [page 68](#)

### Tire pressures, cold tires, psi

Model	Tire	Normal speed				>75 mph (120 km/h)	
		1-3 pers		Full load			
		Front	Rear	Front	Rear	Front	Rear
264	185/70 R 14	27	27	28	32	28	32
265	185 R 14	27	30	28	36	28	36

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