

# **VOLVO**

# 240

**SERIES**









# Volvo 240 series built for the individual

Prestige, quality and reliability are essential in any car where relaxed, comfortable driving is to be a way of life. You will find these qualities and more in the famous Volvo 240 series. Sit behind the wheel. Immediately you will appreciate why Volvo is considered to be one of the world's most exclusive cars. See for yourself how every detail is designed to enhance your driving experience.

However, the Volvo is more than scientifically tested seats and dashboards. The whole car has evolved through years of development to make driving a pleasure. In the 200 series particular attention has been given to the handling and roadholding. This is to ensure the car is easy to handle and will respond in even the most difficult circumstances.

The twists and turns of country lanes are handled with ease and comfort because of the unique combination of engineering expertise coupled with a genuine concern to create the environment which ensures the comfort and safety of the driver and his passengers.

In the 244 Saloon and 245 Estate Car, Volvo's world famous standards of construction and durability are matched by the fine quality of finish, the complete specification and the fact that all components undergo rigorous quality control procedures.

On the following pages, you will see in more detail the real benefits a Volvo offers. But to truly appreciate a Volvo you must drive it.

The 240 series range consists of the 244 DL and 244 GL Saloon models, and the 245 DL and 245 GL Estate Cars. The GL's have powerful fuel injection engines whilst the DL's utilise a carburettor.



# Relaxed driving - but you are always in control

Volvo owners drive more miles than the average driver. So Volvo has paid particular attention to making the driver and passenger seats as comfortable as possible.

Since most people first experience fatigue in the lumbar region of their back and in their legs we have even further improved our famous adjustable lumbar support in the front seats. We have also improved the design of the seat cushion to provide more support for the thighs and the slightly concave backrest keeps you secure when cornering. The entire seat has an extremely wide range of adjustment to suit your individual driving position; it can be placed in an infinite number of positions fore and aft; the backrest is continuously adjustable; the seat can be raised and lowered, both front and rear to achieve the best setting for you. Integral head restraints which do not obstruct your vision, are also standard. In addition the high performance 244/245 GL is fitted with an electrically heated driving seat.

The world renowned Volvo seat though is only one feature of the 240 series. There is also the exceptional comprehensive specification, the famous heating and ventilation system designed for Swedish winters, the easy to read instruments, large boot space and the fascia layout here are only some of the other attributes of the total 'Volvo experience'.



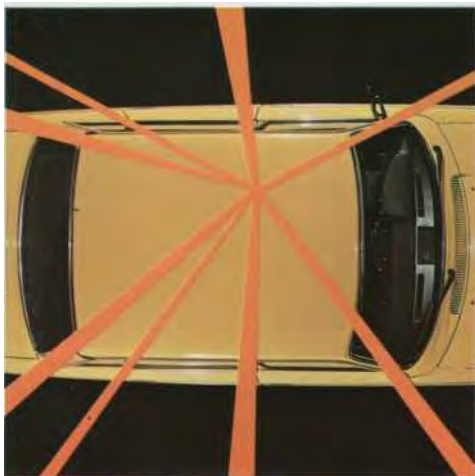
The front and rear edges of the seat can be raised and lowered to fit your particular requirements in terms of leg length and thigh support. Even the foot angles are precisely calculated in order to avoid tired legs on long journeys.



The rear window is electrically heated to ensure clear rear vision even under the severe conditions found in the Arctic Circle.



From the driving seat, a Volvo provides almost totally unrestricted all round vision. The corner pillars are no wider than the distance between your eyes. Thus you 'see round' them. The interior rear view mirror and the large (138 cm<sup>2</sup>) anti-dazzle outside door mirror provide excellent rear vision.



Twelve air intake points provide extremely efficient through flow ventilation. You can also adjust the supply of warm or cool air to your exact requirements. There is a quiet running three-speed fan. Separate nozzles keep the side windows mist free. In a Volvo it is possible to have hot air on your feet and cool air on your face.



The seating angle and distance to the controls are carefully matched to suit one another.



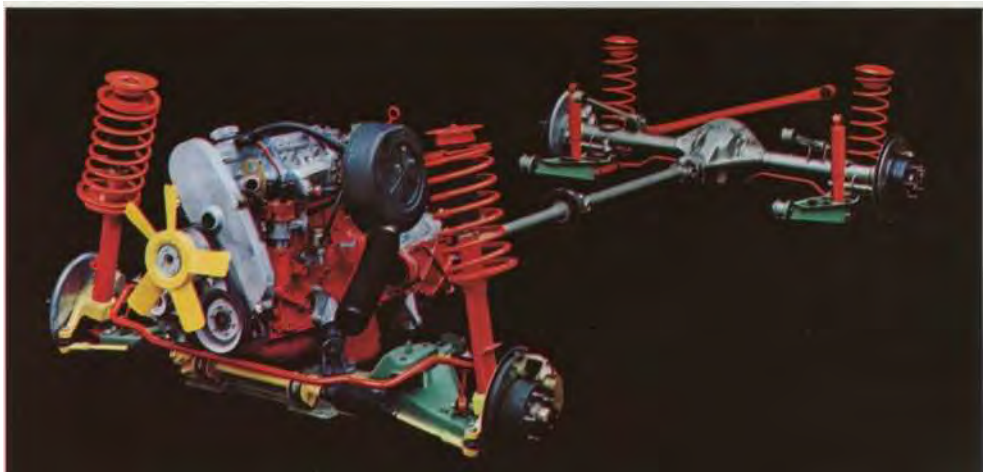
# Volvo have respect for the unexpected

From lane changing in city traffic to the sudden changes of direction necessary in an emergency, a car must behave in a safe, predictable manner. As handling and roadholding characteristics change according to road conditions it is important for the driver to react in a calm and controlled way.

Through an extensive research programme involving experienced test and rally drivers as well as every-day motorists, Volvo have created a car with exceptional characteristics. In a Volvo 240 series the driver can control almost every situation, even extreme emergencies, using normal driving techniques.

The illustration on the right shows how the car behaves when cornering under normal driving conditions (unbroken line). In extreme situations (broken line) we instinctively expect the car to behave in the same way. If the actual behaviour of the car does not coincide with these expectations, as in the case of A or B, then there is considerable risk of the driver losing control of the car completely. A Volvo behaves as you would expect it to, because Volvo have 'respect for the unexpected'.

A car that reacts quickly without surprising the driver contributes enormously to driving safety.

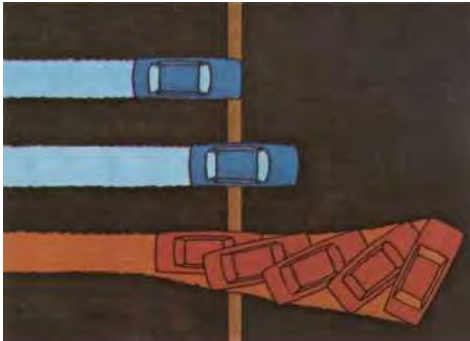


The outstanding road-holding of the 240 series is due to a number of factors, for example, the precision rack and pinion steering, the spring strut front suspension and a live rear axle with coil springs and an anti-roll

bar that provides the wide steel belted radial ply tyres with maximum road contact area.



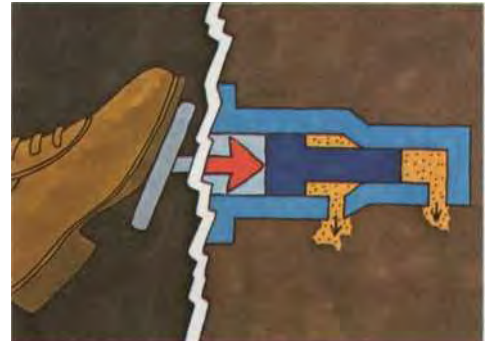
If one of the brake circuits fails, the 244 and 245 can still be braked without increasing the tendency to skid and retain 80% of braking power. Moreover, it does not matter which brake circuit fails. Some of our competitors, with other types of braking systems, do require longer stopping distances. They also have a tendency to skid when their best circuit is out of operation.



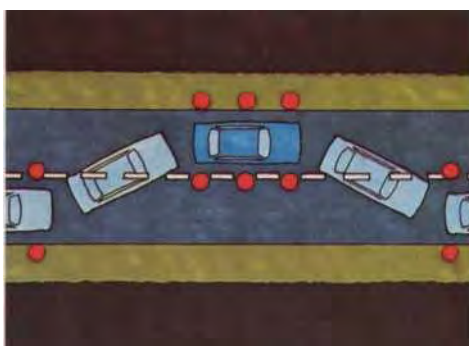
All Volvo 240 series cars are fitted with disc brakes as well as relief valves which prevent the rear wheels from locking up before the front wheels during emergency braking. The unique triangle-split dual circuit braking system provides you with 80% of braking even if one circuit were to fail. Directional stability is maintained by both front wheels being braked simultaneously.



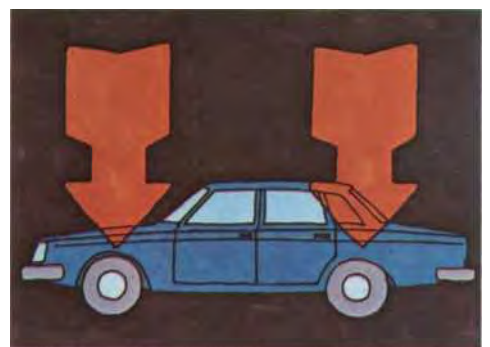
In most cars if one of the brake circuits should fail it is necessary to press extremely hard on the brake pedal to operate the brakes. This is not true in a Volvo. All 240 series cars feature a stepped bore master cylinder. This ensures that pedal pressure does not increase to any significant extent, even if one of the circuits should fail.



The Volvo test tracks are used not only to learn about cars, but also to investigate how a wide variety of drivers respond to critical situations on the road.



If sudden changes of direction are required, the 240 series still exhibits its exceptional road holding capabilities.



Weight distribution is vitally important to handling and road holding. The 240 series has ideal weight distribution between front and rear axles.

# Volvo safety- a legend in its own time

Many of the features which have been standard in Volvo cars for years are now required by law in many countries. The 240 series, therefore, has won an international reputation for both its active and passive safety features.

The 240 has been designed to reduce the stresses to driver and passenger in the unfortunate event of a collision. Feature by feature, the cars are built up in such a way as to provide the highest degree of protection possible. To cushion the impact of a collision there are energy-absorbing crumple zones both front and rear. The extended front provides additional protection by absorbing the initial impact.

The picture to the right shows some of the features which contribute to the superior safety characteristics of the 240 series.

1. The seat is specially secured to the chassis, so that it will not loosen under stress.
2. The inertia reel seat belts (front and rear) are standard. There is also a flashing warning lamp to remind you to use your seat belt.
3. Integral head restraints provide effective protection from 'whiplash' injuries.
4. The steering column collapses in five stages. It has a large padded surface to ensure additional protection.
5. The contemporary styled dashboard has also been designed to ensure maximum protection in the event of heavy impact.



The front end absorbs the impact of a collision. Thus it decreases the risk of serious injuries.



The external crumple zones progressively collapse during a collision. The occupants are protected by the world famous 'Volvo Safety Cage'.

Recently the National Traffic Safety Administration in the United States tested 21 of the most popular cars in the 2500-3500 pound weight class. They found the Volvo 240 series to have the best safety specification. This is living proof of Volvo's commitment to quality construction and safety engineering.



The Volvo steering wheel provides five-fold safety:

1. the lower steering shaft gives way. 2. the steering shaft compresses. 3. the steering column slides forwards and downwards. 4. the steering wheel attachment 'gives way'. 5. the padded area over the centre of the steering wheel provides further protection.



To protect passengers from side impacts there are tubular reinforced bars in the side doors. There are also extra strong latches to prevent doors bursting open.



The petrol filler cap is fitted directly to the filler pipe, which is installed in a resilient rubber sleeve. This decreases the risk of fuel leakage.



Volvo engineering and pioneering work has won many awards in Sweden, Britain, the United States and throughout the world.











# Prestigious, reliable, safe and always a pleasure to drive

All Volvos have an exceptionally small turning circle which allows you to manoeuvre in a confined space. This means a Volvo 240 car is easier to park than many small cars.

The instrumentation and dashboard layout have been arranged to enhance your driving experience. The fascia is finished in matt black, to reduce reflection and eye strain. A bulb integrity sensor lights up if one of the dipped headlights, tail light, or stop light bulbs fail. There is a warning lamp if one of the brake circuits fails. An accurate quartz clock, cigar lighter, infinitely variable heater and tripmeter are all standard.

## The Volvo engine

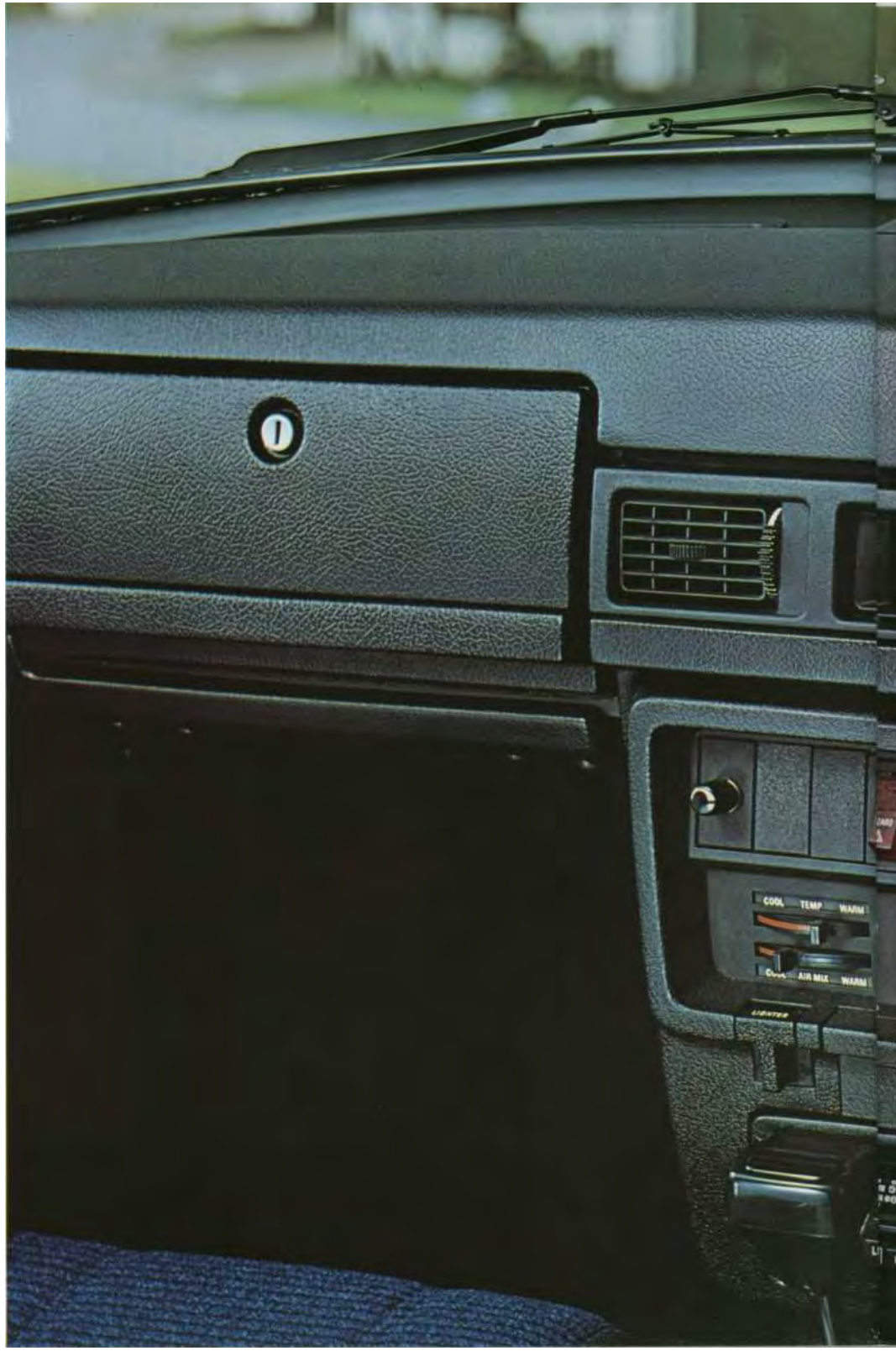
Two types of 2.1 litre four cylinder engines are available in the 240 series. Both are built in Volvo's quality controlled factories. First is a carburettor version producing 100 bhp (DIN), second, the more powerful sporty 123 bhp (DIN) unit with continuous fuel injection (CI). This engine is also fitted with a transistorised, contactless ignition system.

The 240 series engines are of the cross flow type and feature an aluminium cylinder head with an overhead cam shaft. Their design ensures faster starting under all conditions. They run on economy grade 93 octane fuel.

## Gearbox

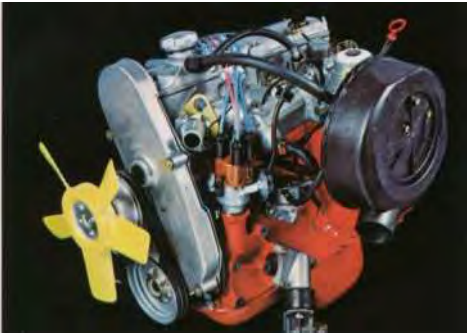
The four speed manual gearbox is fitted with a reverse interlock to prevent you accidentally engaging reverse. It has also clearly marked positions and features a short travel distance between gears. The 244 GL and 245 GL have an electric overdrive on top gear as standard.

All 240 series cars are available with a three speed automatic transmission. The automatic transmission ensures that the engine always operates at its best speed and gear changing is smooth. If you want to use the engine for even more braking effect, you can engage the first speed even when the car is travelling as fast as 38 mph





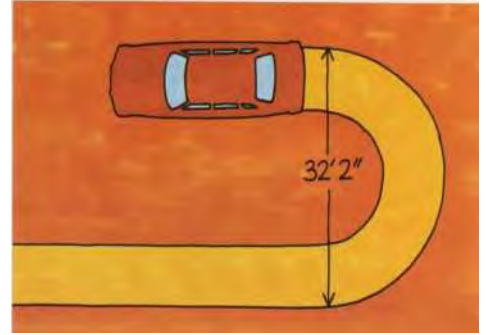
The Volvo 244 DL and 245 DL are fitted with the B21A engine with an output of 100 bhp (DIN) and has excellent torque characteristics.



The automatic transmission is designed to make driving, particularly in heavy traffic, easier.



A small turning circle makes parking much easier. The turning circle is 32 ft 2 in - better than many smaller cars.





# A luxury environment

The carpets contribute to the quiet, luxurious interior of the 240 series. The seats are of comfortable but durable knitted textile. The luxurious 244 GL features leather upholstery as standard to add to the prestige of the car. Both front seats are fitted with adjustable lumbar support, and the rear seat provides room for three adults. Front and rear seat belts are standard. The integral head restraints are of the see-through type providing a better field of view. The front doors are fitted with spacious pockets, childproof locks on the rear doors, and the rear ashtray is illuminated for easy location.





There is plenty of space in a Volvo. Oddments pockets in the doors and illuminated lockable glovebox contribute to the well planned accommodation.



The 244 DL and GL have a 21.5 cu ft illuminated luggage compartment. The boot is so deep that most suitcases can be put in standing upright.





# Long life expectancy means fewer day to day worries

Each year the Swedish Motor Vehicle Testing Authority calculates the probable life expectancy of every different make of car on Swedish roads. Every year since this programme began Volvo's result has been the best. The latest figure indicates a life expectancy of 16.7 years - almost two years more than the closest competitor.

A long life means fewer everyday problems, lower maintenance costs and a higher trade-in value. But you do not need to own a Volvo for many years to experience the quality. You notice this the very first time you sit in one and drive it. Every feature is designed to be robust; able to withstand a long and hard life.



Rain, snow and the salt of winter roads, the 240 series is built to withstand the severe Nordic climate.



Durability tests are carried out on all important components before they can be said to meet the 'Volvo' standard of quality.



The front wheels have innerwheel mudguards made of polypropylene to protect against dirt and corrosion.



The bumpers are designed to withstand an impact up to 3 miles per hour without sustaining body damage. This can save you time and costly repair bills.



Exposed parts of the exhaust system are aluminised for longer life.



A Volvo body has at least 7,000 spot-welds. Each one can support the total weight of the body of the car.



Door sills are more prone to rust than most areas of the car. The door sills of 240 series cars are therefore treated with special polyester plastics. They are also kept moisture free by a constant slip stream of air.



Corrosion means cost. It can also mean a dangerous car. The exposed body sections of a Volvo are, therefore, galvanized with a coating of zinc on both sides.



# There's a 240 series to suit you

## Volvo 244 DL

Four door, 2.1 litre B21A carburettor engine developing 100 bhp (DIN). Manual four speed gearbox or three speed automatic transmission. The Volvo 244 DL's specification compares favourably with any car of its class and it is not hard to see why it is one of the best selling 2 litre executive cars in Europe and the UK.

## Volvo 244 GL

The Volvo 244 GL is for the discerning driver; the person who wants that 'something extra' in the way of specification, performance and luxury.

244 GL cars are fitted with a sun roof, tinted glass, fuel injection, overdrive, tachometer, leather upholstery, metallic finish.

The engine is the 2.1 litre B21E unit with continuous fuel injection and a transistorised, contactless ignition system.

Even this top performance engine, producing 123 bhp (DIN) runs on economy grade, 93 octane fuel.

A four speed manual gearbox with electric overdrive on top gear is fitted as standard, but the Volvo automatic transmission is also available.

## Volvo 245

The Volvo 245 is a real five door estate car, not a modified saloon. It can carry five adults in comfort and still take plenty of luggage. The rear seat can be dropped to create a cargo area over six feet long with 70 cu ft of load space. To enable you to load bulky items, the rear door is 45.7in wide and 30.7in high. The hinges are fitted on the outside to avoid obstructing entry.

In spite of these large cargo areas, the Volvo 245 is easy to drive and park. Its turning circle, at 32ft 2in, is the same as the 244. The rear window is electrically heated, and is fitted with a wash/wipe system as standard.

## Volvo 245 DL

Five door Estate Car. The Volvo 2.1 litre B21A carburettor engine develops 100 bhp (DIN). A choice of either four speed manual or three speed automatic transmission is available.

## Volvo 245 GL

The GL version features the high performance B21E engine with continuous fuel injection and transistorised ignition used in the 244 GL. The Volvo 245 GL is also fitted with tinted glass and metallic paint as standard.



# Volvo 244 DL

All Volvo cars offer an extremely comprehensive specification as standard compared with the competition. There are, however, a range of accessories available to allow you to tailor your Volvo to your individual requirements.

Day running lights make up part of the continuous Volvo safety programme. They operate automatically when the ignition is switched on. The special bulbs in the day running lights consume very little current and, with the alternator, do not affect the battery. It is important to see, but also to be seen.

Volvo 240 series cars are fitted with intermittent windscreen wipers. After the washer has been used they automatically make a couple of sweeps to ensure the screen is clean.

## Accessories

Electrically operated rear view mirrors.  
Volvo's famous safety seat for children.  
Electrically operated antenna.





# Volvo 244 GL

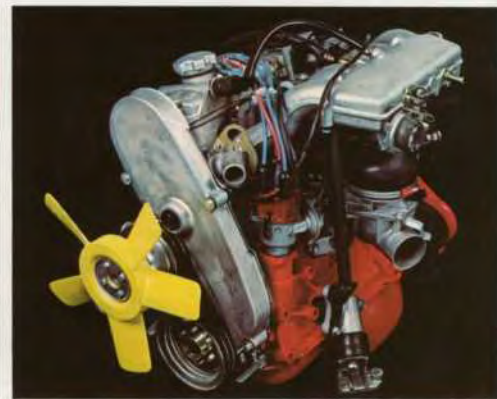
The high performance GL version of the 244 is specially finished to give that luxury feeling to an already exceptional car. The upholstery is produced in genuine leather. Metallic paint is standard. A special steering wheel is fitted to GL models plus special GL wheels. A tachometer is also standard. Overdrive is fitted to the manual transmission.

On warm summer days, there is a sun roof to let you enjoy fresh air.

## Accessories

Alloy sports wheels Grille lamp kit.

The sporty B21E engine with its overhead cam, continuous fuel injection and transistorised ignition system, develops 123 bhp (DIN). The precise four speed gearbox has overdrive on top gear. The B21E engine provides excellent acceleration throughout the speed range. The overdrive unit ensures good fuel economy.





# Volvo 245 DL and 245 GL

Spacious and durable, the Volvo 245 estate car has plenty of room for five adults as well as 42 cu ft of storage space. Two simple movements provide a cargo area which is over six feet long and has a capacity of 70.6 cu ft- big enough for a six foot settee.

The seats in the 245 are covered with a knitted textile which stands up to the wear and tear of children and dogs but is luxurious enough for that 'special night out'. The load space is carpeted to avoid possible damage to luggage.

The 245 DL has the B21A engine, producing 100 bhp (DIN). The sporty B21E unit fitted to the 245 GL has continuous

fuel injection and transistorised ignition, giving excellent fuel economy from its 123 bhp (DIN).

## Accessories

An extra seat which can be folded down under the load accommodation. It is fitted with an armrest, head restraints and seat belts.

The Volvo self levelling device maintains the car in a horizontal position even when it is heavily laden at the back. Especially important with a heavy cargo or when pulling a trailer.





# Standard Equipment

	244 DL	245 DL	245 GL	244 GL
Front seats with adjustable lumbar support				
Electrically heated rear window				
Vertical adjustment of driving seat				
Power assisted brakes				
Disc brakes all round				
Bulb integrity sensor (showing if a bulb has failed)				
Warning lamp for brake circuit failure				
Reminder lamp for front seat belts				
Reminder lamp for rear seat belts				
Illuminated ash tray for rear seat				
Electric clock				
Halogen headlights				
Automatic day running lights				
Automatic reversing lights				
Inertia reel seat belts front and rear				
Child-proof rear door latches				
Rubber mounted fuel filler pipe				
Fuel tank with safety location				
Stepped bore brake master cylinder				
Relief valve prevents rear wheels from locking before front wheels				
Radial ply, steel belted tyres				
Intermittent windscreen wiper				
Safety steering wheel				
Rheostat controlled instrument lighting				
Laminated windscreen				
Tripmeter				
Hazard warning lights				
Cigar lighter				
Mud flaps				
Full carpeting				
Anti-dazzle rear view mirror				
Driver's door mirror				
Energy absorbing bumpers				
12 month unlimited mileage warranty				
Side impact protection.				
Electrically heated driver's seat				
Sun roof (available also on some 244 DLs)				
Tachometer				
Tinted glass all round				
Metallic paint				
Overdrive				
Leather upholstery				
Fuel Injection				
Luggage compartment lighting.				
Vanity Mirror				
Electrically heated rear window with wash/wipe mechanism				

All models can be obtained with automatic transmission. Power steering is an optional extra on all models.



# Specification

## Engines

Four-cylinder, liquid-cooled with five-bearing crankshaft. Overhead camshaft and light-alloy cylinder head. Fuel octane rating: 93.

	244 DL/245 DL	244 GL/245 GL
Designation	B21A	B21E
Displacement cc	2127	2127
Bore x Stroke mm	92.0 x 80.0	92.0 x 80.0
Max. Output hp at r/m DIN	100/5250	123/5500
Max. Output kw at r/s DIN	74/88	90/92
Max. Torque kpm at r/m DIN	17.3/3000	17.3/3500
Max. Torque Nm at r/s DIN	170/50	170/58
Compression Ratio	8.5:1	9.3:1
Carburation	Single Cross-Draught Carburettor	CI Fuel Injection

## Cooling System

Frost-proofed and sealed. Capacity 8.3 Imp quarts. (9.5 litres).

## Electrical System

12V/60 Ah battery. 55 A alternator.

## Fuel Tank

Capacity 13.2 Imp galls. (60 litres). Safety location beside rear axle.

## Transmission

Manual, Diaphragm type clutch. Four-speed, fully synchronized gearbox.

The Volvo 244 GL and 245 GL have overdrive operating on 4th gear. Fully automatic transmission is also available.

## Steering Gear

Rack and pinion steering. Split steering column of safety type.

## Wheels and Tyres

Steel belted radial ply tyres

244 DL 175 SR 14 5J-14 in rims

244 GL 185/70 SR 5.5J-14 in rims

245 DL/245 GL 185 SR 14 5.5J 14 in rims

## Suspension

Front: spring strut type.

Rear: live rear axle carried in longitudinal, rubber-mounted support arms. There are also two torque rods and an anti-roll bar.

## Braking System

Triangle split dual-circuit type. Each circuit acts simultaneously on both front wheels and one rear wheel. Special-alloy brake piping. Disc brakes all round. Power-assistance. A relief valve in each circuit prevents the rear wheels from locking prematurely in emergency braking. The brake master cylinder is of the stepped bore type.

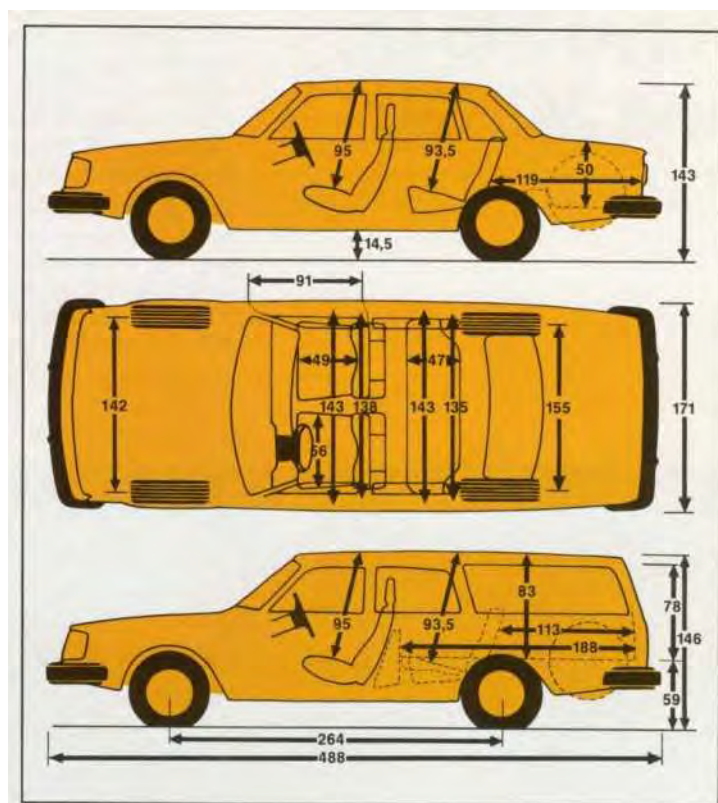
The hand brake operates independently on the separate rear wheel drums.

## Instrumentation and Controls

Padded dashboard. Rheostat-controlled instrument lighting. Six-figure mileometer, tripmeter, fuel gauge and coolant temperature gauge. Warning lamps for alternator charging, oil pressure, choke, main beam, hand brake and brake failure, tachometer (244 GL and 245 GL). Bulb integrity sensor. Audible and optical signs for turn indicators. Glove box light. Combined steering wheel lock and ignition switch. Centre console houses controls for electrically-heated rear window and 4-way hazard warning flashers; seat belt reminder; controls for heating and ventilation; cigar lighter; ashtray; space for radio; rear windscreen wipe/wash (245 DL and GL).

## Warranty

12 month warranty including labour and parts irrespective of mileage, we reserve the right to modify design and equipment without prior notice.



Turning Circle Diameter Between Kerbs	32 ft 2 in (9.8m)
Boot Capacity (244DL/GL)	21.5 cu ft (615 dm <sup>3</sup> )

## Cargo Area Dimension, 245 DL/GL

Volume, rear seat up, approx	42 cu ft (1.2m <sup>3</sup> )
Volume, rear seat dropped, approx	70.6 cu ft (2.0m <sup>3</sup> )
Volume, concealed cavity, approx	2.1 cu ft (59 dm <sup>3</sup> )
Tailgate opening, max width	45.7 in (1160 mm)

## Gross Laden Weight:

244 DL/GL	3925 lb (1780 kg)
245 DL/GL	4299 lb (1950 kg)
Permissible trailer weight	3307 lb (1500 kg)

## Other Standard Equipment

Combined lever for turn indicators, main and dipped beam and main beam flasher. Combined stalk for windscreen wipers with two speeds and intermittent wipe facility and electric windscreen washers. Halogen headlights. Automatic day running lights. Automatic reversing lights. Front head restraints. Rear 'Fasten Seat Belts' reminder. Inertia reel belts on front seats. Two inertia reel belts and one lap belt on rear seat. 'High-impact' laminated windscreen. Padded sun visors. Day/night interior rear view mirror of safety type. Roof lining of pressed fibreglass wool. Vanity mirror. Child-proof rear door latches. Towing points front and rear. Mud flaps. Tinted glass (244 GL and 245 GL). Metallic paint (244 GL and 245 GL). Rear wipe/wash (245 DL and 245 GL). Sun-roof (244GL).

The factory reserves the right to make changes at any time, without notice to prices, colours, materials, equipment, specifications and models and also to discontinue models.



# VOLVO

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