
THIS IS THE TOTAL CAR
MADE BY VOLVO

*Try to
beat it!*

0-200 LIKE GREASED LIGHT



NING.

You have always wanted a car with the performance of a sports car, you like active driving and appreciate a powerful engine with acceleration resources far above the average. You want a car that is not like all other cars, a personal car that gives real pleasure each time you start the engine.

Your problem until now has been finding a car that fulfils your sports car fantasies and at the same time is the practical car which you realise is what you really need. A car with real room and loading capacity for five people and their luggage! This car now exists – you are at present holding a brochure about the Total Car – the Volvo 245 Turbo!

You can recognise the characteristic robust Volvo design, the overall feeling of safety, the high quality in every detail, the practical functionality, the Volvo comfort, etc. Everything that has made the Volvo name famous through the decades is present in the 245 Turbo.

And under the bonnet is a tiger!

Sit behind the steering wheel and experience the feeling from 0–200 km/h.

You start the turbo-charged engine. 155 willing horsepower at your service. You have four gears and a smooth, electric overdrive. At 3000 rpm on the rev counter the turbo starts to give you the power that is like a kick in the back. 60 km/h is reached in 4.5 seconds. After 9 seconds you pass 100 km/h and you are in third gear. It is time for fourth gear at 130 km/h with the rev counter showing 6000 rpm. Most other makes of car are now



far behind you, but what is really exciting about the Volvo 245 Turbo is that you still at 150 km/h have a lot left in the engine, thanks to the turbo power and the extremely good torque. At 180 km/h you switch to overdrive and the turbo charge gives the engine

a new lease of life. Very soon you have reached top speed – 200 km/h. You are flying but with your feet steady on the ground, the low profile tyres lick the concrete, the grip is perfect.

The overdrive button which you have under your thumb on the gearstick is also your tool for rapid and safe overtaking, especially in the 90–150 km/h range.

The Volvo 245 responds to your touch under perfect control at any speed.

Perfect balance, even with the car fully loaded. The 245 Turbo is built for long and fast travelling, maybe from one side of Europe to the other in one day. It is built to take you where you want to go, safely and in the ultimate comfort, and also in an astonishingly economical way. Thanks to Volvo engineering and the turbo charge you can drive the 245 Turbo easily on a fantastic 1.1 litre per 10 km. Super performance with economy is a vital aspect of the Total Car.

**Try to
beat it!**

TURBO-POWER AND ESTATE



IN THE SAME BODY.

As you have already understood, the Volvo 245 Turbo is a unique combination. It is the first and only estate in the world with a turbo engine.

When sitting at the wheel, you have in front of you a sports car, but behind you there is the loading capacity of an estate.

Does this mean compromises? Not at all. You have always perfect balance and control even when the 245 Turbo is fully loaded.

We have already described what the turbo engine means in terms of performance.

Now look at the room inside and see what that means in terms of practicalities!

A luggage compartment of 1.2 m³, which, with the rear seat folded down, can be increased to a cargo space of 2.15 m³ – 188 cm long.

Tie down rings on each side make it easy to secure the cargo.

Under the floor there is a concealed space for valuable items which you do not want to be seen when the car is unattended.

As an optional extra, the 245 Turbo can be equipped with a cover, which can be drawn across to hide the



whole area from the backseat to the rear door.

The generously dimensioned tailgate is easy to open thanks to the powerful gas struts. The rear window is electrically heated as well as being equipped with a wiper facility and washer. An inter-

mittent wiper facility is also standard on the rear window.

So now you have the performance of a sports car and the capacity of an estate for all your sports gear, luggage or whatever you want to take with you. If you are a sailor, golfer, horseback rider, etc., this is the car for you.

If it is sometimes necessary, two people can also have a good night's sleep in the rear. Just fold down the back seat, make up the bed and make yourselves comfortable!

What else can you demand from the Total Car? At Volvo we will always consider one thing more important than anything else in a car. Guess what ...



**Try to
beat it!**

AND THE WELL-KNOWN VO



LVO SAFETY BUILT IN.



The growing range of Volvo models, which now includes the 245 Turbo, and the increasing complexity of the product itself has not made Volvo deviate from its basic philosophy: that of building only safe, reliable quality products.

Products that offer good value for money in terms of specification and resale value.

Volvo today offer more than most others – in some cases more than anybody else.

Especially in the field of Crash Safety.

Accidents could happen, even through no fault of your own. It is a comforting thought that, should anything happen, you are probably safer in your Volvo than in any other make of car.

You and your passengers are always protected by the famous Volvo



safety cage including side impact protection, front and rear, fully crumple zones collapsible steering column, safety-padded interior and safety belts of patented design front and rear.

The primary form of safety, however, is that which prevents accidents from happening at all. This is what Volvo has now been

developing for several years. Dynamic Safety.

Volvo has designed its cars to have that extra capacity to keep you on the road, should anything out of the ordinary suddenly happen. The steering, braking and acceleration are stable and predictable, even in extreme situations.

Where some cars may leave you to cope with locked wheels, sudden skids, unexpected over- and under-

steering, etc. Volvo doesn't panic and, as a result, neither will you.

You can now understand why Volvo consider safety the most important part of the Total Car.



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COMFORT IS AN IMPORTANT



T PART OF THE TOTAL CAR.



Comfort is more than just sinking into deep soft pillows. Seats should be soft, yes, but still firm enough to provide adequate support even on long trips.

The Volvo seat gives perfect support to the body. The seat has an extraordinary range of adjustments including the quite unique adjustable lumbar support. Practically anyone can adjust the seat to suit their individual requirements. The entire seat design is based on longterm consultation and team work with medical researchers. Fore-and-aft adjustment by means of an easily accessible lever. Normal range 225 mm, additional 20 mm available backwards. Height – three different positions on the front and three on the rear of the seat provides nine combinations of varying inclinations.

A large knob regulates adjustment of backrest down to a fully reclining position.

Lumbar support can be adjusted within a 20 mm range by means of a knob on the side of the seat.

Your rear seat passengers ride in comfort as well – the seats are well shaped, have a centre armrest and they will find that the legroom is



exceptionally good.

Volvo have not forgotten other important features like a fresh air ventilation and heating system, designed to make you comfortable inside the car no matter what conditions are like on the outside, spaciousness, light and effortless

steering and gearing, the small turning circle and the exceptionally well equipped driver's area.

The car feels light, precise and easy to handle. Once behind the wheel, you will feel everything is right where it should be.

And you will keep that feeling even after hours of driving!



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MAKE IT YOUR OWN PERSON



NAL TOTAL CAR.



The Volvo 245 is, as standard, very well equipped with many details which are normally thought of as luxuries and extras, such as the five-spoke light alloy wheels with low profile tyres and the light grey plush upholstery. (See the complete list of standard equipment on page 15.)

As well as the standard equipment, there is a long list of accessories for your more personal requirements, to increase the feeling of comfort and luxury even more. Through the addition of extra equipment your Volvo 245 Turbo becomes the personal car you want.

245 Turbo can be equipped for your convenience with a central locking system, electric window lifts all round and electric door mirrors.



In the illustration you can see a guard which is fastened between the front seats to protect children from falling forward in case of an accident or sudden braking.

Another safety accessory is the outside tempera-



ture gauge, which keeps a track of the critical zero degrees in winter.

Also in winter you may need the antispin equipment which can be built into the universal joint.

Automatic leveling system is a finesse which can be built in, so that the body is always kept at the same level, irrespective of load.

So that the luggage space need not be on view, especially when the car is unattended, there is a special cover which

can then be drawn across the luggage space.

On the list on page 15 you can also find all the special equipment which is available. Your Volvo dealer can give you more detailed information.

Safety in the 245 Turbo is as standard optimal, but can be supplemented for example as regards child passengers.



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SOME SIGNIFICANT FACTS A

THE TURBO ENGINE

A turbo-charger is a turbine driven air compressor which you can fit to a petrol or diesel combustion engine, thereby providing more air for the engine to combust.

By filling the combustion chambers with compressed air, more fuel is combusted more efficiently.

Which means more performance without an increase in fuel consumption. A turbo-charged 2-litre engine will, for example, perform like a 3-litre engine and still maintain a fuel economy of the 2-litre unit (in normal driving conditions).

As turbo-charging provides an air surplus, it contributes towards more effective combustion. One result being cleaner

exhaust emissions. Output is 155 hp at 5500 rpm (114 kW at 92 rps). This is an increase of 26% on the standard B21 E. Torque is even more dramatically affected by turbo-charging. 24.5 kpm is no less than 41% higher than the original engine. This increased performance is not achieved at the expense of fuel economy.

BRAKING SYSTEM

Volvo 240 Series have disc brakes all around. On the Turbo the front brake discs are specially cooled by radial drilling through the disc.

The brake servo system amplifies the pedal load about 3.5 times. Relief valves are used to distribute the front/rear braking

forces, thus preventing the rear wheels from locking prematurely during heavy braking and reducing the risk of skidding.

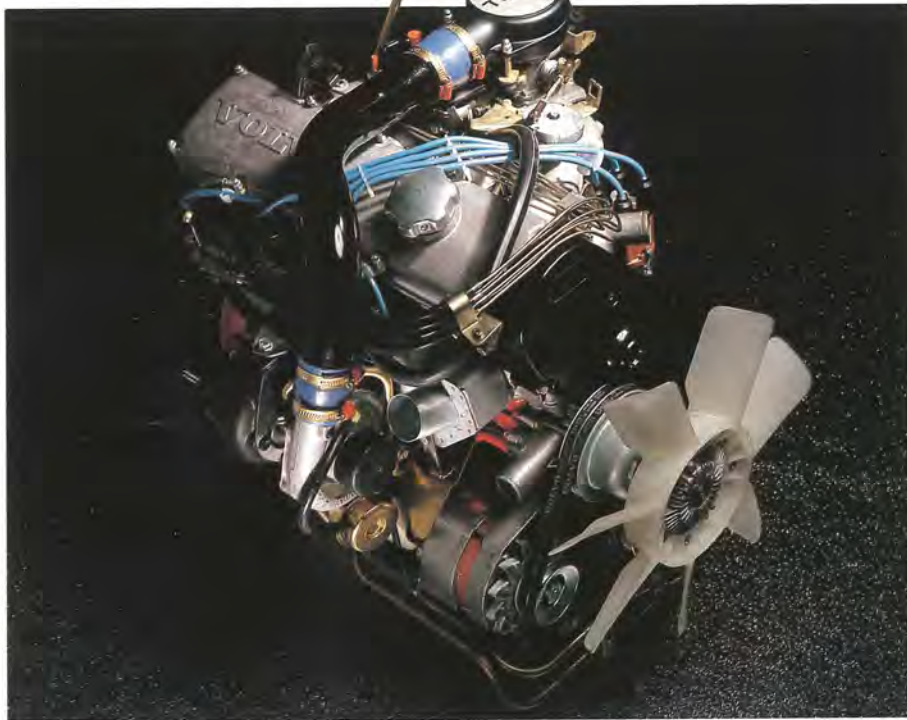
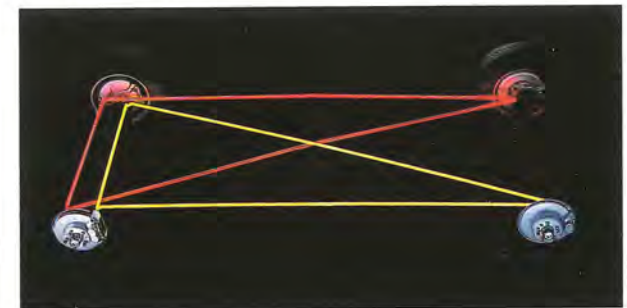
For reasons of safety, the brake pipes are made of a special alloy which resists corrosion much better than copper. It consists of 87% copper, 10% nickel and 3% iron and manganese. The Volvo and the Porsche 928 are the only cars which use this special type of brake pipe material.



NO PANIC – EVEN WITH ONE CIRCUIT OUT OF ORDER

The Volvo 240 cars are superior to all competing makes in satisfying the two following requirements should a brake circuit fail:

1. Practically full braking force irrespective of which of the two circuits fails.
2. No noticeable increase in pedal pressure or effort to reach maximum braking force.



BOUT THE TOTAL CAR.

FRONT WHEEL SUSPENSION

Suspension systems that give you a soft ride often isolate you from the road. You can feel this when you ride through a series of corners; your car sways and responds sluggishly to your steering directions.

Volvos, however, have a suspension designed to optimize both riding comfort and precise handling, sacrificing neither.

Each front wheel is independently suspended by a spring strut, incorporating a coil spring and shock absorber in one unit. Double acting shock absorbers are encased within the struts, protected from dirt and corrosive road salt.

This design means less transmission of road-shock to the body unit mounting blocks, while maintaining excellent control of the wheels for predictable handling and precise steering control. This is a Volvo feature which contributes to safe driving.

RACK AND PINION STEERING

The Volvo 240 Series is slightly understeered. The cars have built in self correction (caster action) which gives directional stability while only small steering forces are needed to change course.

REAR WHEEL SUSPENSION

Volvo uses a live rear axle for 240 Series cars because it is a durable and reliable type of axle which, used in the right way, gives excellent roadholding and a smooth ride.

The movement of the rear axle is controlled by two support arms, two torque rods which limit axle "wind up" during accelera-



tion and braking, and a "panhard" rod which holds the axle laterally. Coil springs, a stabiliser and shock absorbers complete the picture.

The aim of the designers was to create a rear axle suspension which keeps the wheels at the same angle in relation to the road at all times.

UNIQUE SURFACE AND RUSTPROOFING TREATMENT

The 240 Series cars get a surface treatment, which, with regard to thoroughness and extent, is entirely unique. After a multistage painting process, rustproofing agents are applied not only to the underbody of the car, but also inside the body members and other cavities.

SPOILER, RIMS AND TYRES

The spoiler improves directional stability and the car's top speed. It also contributes to lower fuel consumption and gives the car a sportier appearance.

The rims and tyres are more important

than most people realize, especially with regard to high speed driving; they contribute to improved directional stability, good grip and durability and wear resistance.



The 245 Turbo comes with five-spoke, light alloy wheels with low profile tyres as standard.

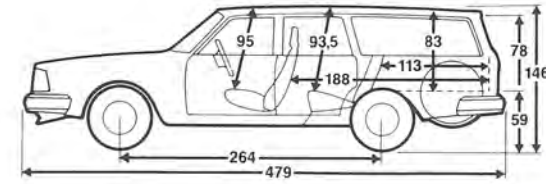
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SPECIFICATION AND EQUIPMENT

Technical information

245 Turbo

Engine	
Designation	B 21 ET
No. of cylinders	4
Displacement (cc)	2127
Bore/stroke (mm)	92/80
Max output, kW DIN at r/s (hp DIN r/min)	114/92 (155/5500)
Max torque, Nm DIN at r/s (kpm DIN r/min)	240/63 (24.5/3750)
Compression ratio	7.5:1
Fuel system	Injection. CI-system
Cylinder heads	Aluminium alloy
Valve system	Overhead camshafts
Transmission	
Manual	4-speed with overdrive
Cooling system	
Frost-proofed and sealed. Volume, litres	9.5
Electrical system	
Battery capacity	12V/60Ah
Alternator rating	55 A
Ignition system	Contactless, transistorised
Fuel tank	
Safety location beside rear axle. Volume, litres	60
Steering gear	
Rack and pinion. Split steering column of safety type. Ratio	17.3:1. Power assisted
Turns of steering wheel, lock to lock	3.5
Turning circle, metres	9.8
Wheels	
Steel braced radial ply tyres	195/60 HR 15
Rims	6J-15" Light alloy, 5-spoke
Suspension	
Front	Spring strut
Rear	Live
Brakes	
Front/rear	Discs/discs
Shock absorbers	
Front/rear	Standard/gas filled
Weights	
Kerb weight	approx. 1420 kg
Total weight	1900 kg



Warranty

12-month warranty without mileage limitations.

The factory reserves the right to make changes at any time, without notice, to design and equipment.

Please note that due to different legal requirements in various European countries, car specifications may differ from one country to another.

ENT.

Standard equipment

245 Turbo

Adjustable lumbar support / front	●
Adjustable seat height / driving seat	●
Head restraints front	●
Door storage recess	●
Quartz electronic clock	●
Warning buzzer for lighting and ignition switch	●
Bulb integrity sensor	●
Rev counter	●
Leather encasement round gearbox	●
Manual gearbox with overdrive	●
Aluminized exhaust system	●
Glovebox fitted with lock and make-up mirror	●
Interior light also connected to rear doors	●
Fitted carpets	●
"Child-proof" latches on rear doors	●
Tinted glass all round	●
"High Impact" laminated windscreen	●
Electrically heated rear windscreen	●
Halogen headlights	●
Rear fog light	●
Headlight wipers and washers	●
Intermittent wipers	●
Door mirrors, adjustable from inside	●
Luggage compartment lighting	●
Triangle-split dual circuit braking system	●
Power assisted disc brakes all round	●
Ventilated discs / front	●
Alloy brake pipes	●
Spoiler	●
Power steering	●
Low profile tyres on 5-spoke light alloy wheels 195/60 HR 15	●
Plush upholstery	●

Optional extras

245 Turbo

Central locking system	○
Electrically outside mirrors	○
Air conditioning	○
Electric window lifts / front	○
Electric window lifts / rear	○
Antispin	○
Parking heater	○

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VOLVO