

**VOLVO**

**340**  
SERIES











VOLVO

343 DL

343

VOLVO







# Hatchback of the year

Volvo 340 Series cars have been designed and are built on the basis of Volvo's internationally acclaimed virtues of quality, safety, reliability and value for money. In 1979, 'What Car?' magazine voted the Volvo 343DL 'Hatchback of the Year' because of its exceptional combination of high standard specification, comfort, handling and overall quality and value.

For 1980, the 340 series offers you the 3 door

343DL or the new 5 door 345DL. Both are available with the choice of manual gearbox or automatic transmission and powered by the very reliable and proven 1400 cc engine. The 343 and 345 have similar specifications and a comprehensive check list is provided at the back of this brochure.

Whichever 340 you choose you'll find that it combines traditional Volvo saloon car luxury with

traditional Volvo estate car versatility.

## The Volvo 340s—chips off the old block

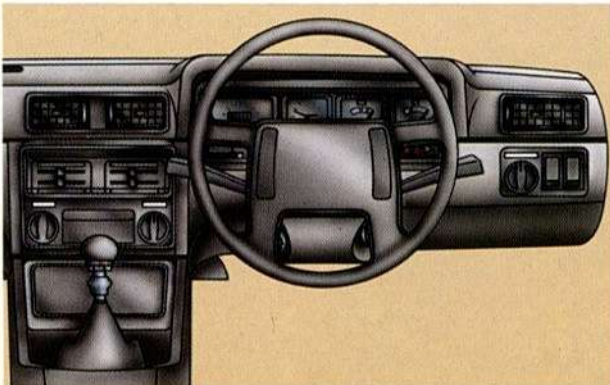
# The overall picture

Behind the wheel of a Volvo 340 you are really in the driving seat. You have exceptionally good all-round visibility and an extremely well laid out instrument panel — with a system of reminder and warning lights to ensure that you have the total picture all the time.

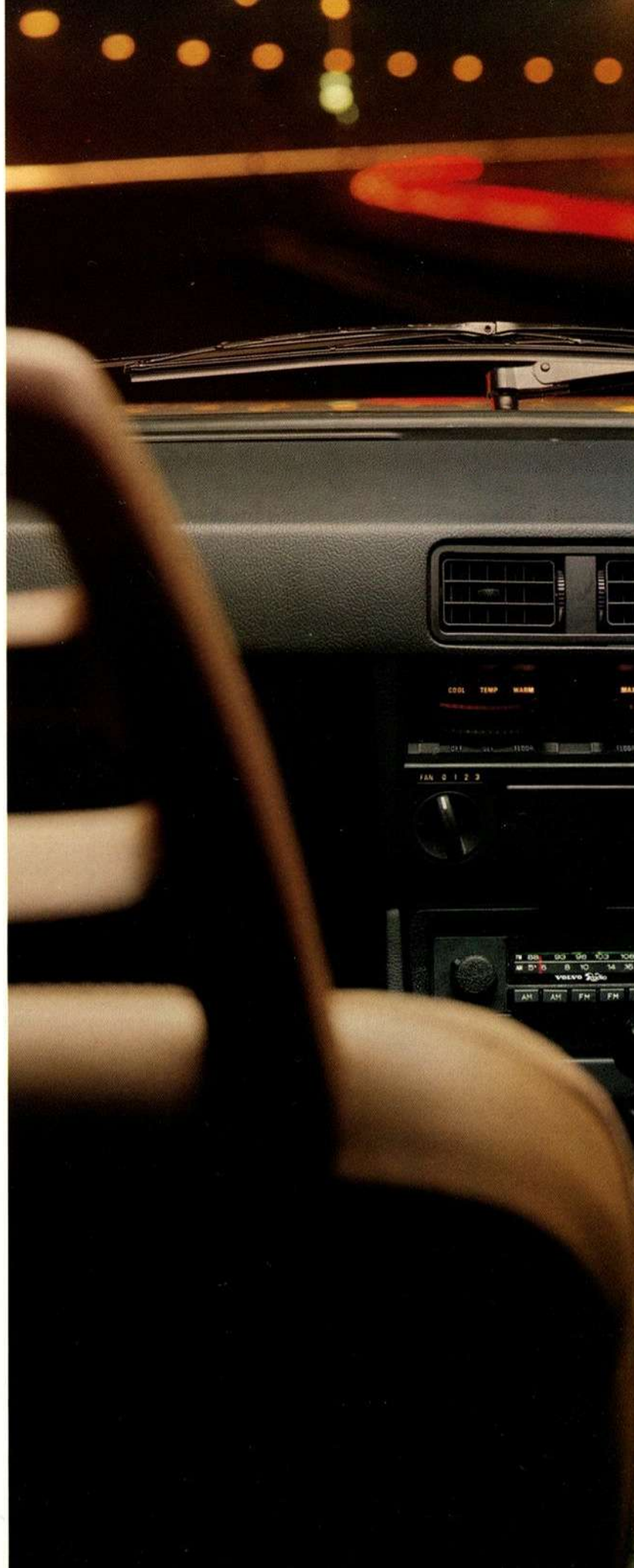
Gauges for water temperature and fuel are located directly in front of you - together with the speedometer, mileage and trip recorder.

Just below these are three groups of warning lamps. The first tells you that immediate action is required: brake fluid and oil pressure. The second reminds you of something you may have forgotten: choke, handbrake or seat belts. The third group are indicator lamps: car lighting, direction indicators, main beam, hazard warning lights, rear window demister.

Column-mounted stalks give finger-tip control - left, for operation or direction indicators and main beam - right for windscreen washer, two-speed wiper and intermittent wiper.



*Ergonomically designed fascia*  
The warning, reminder and indicator lamps are logically grouped together to make them easier to observe without distraction. The most frequently used controls can be reached without taking your hands off the wheel. The radio is a genuine Volvo Accessory.

















# The secrets behind Volvo comfort

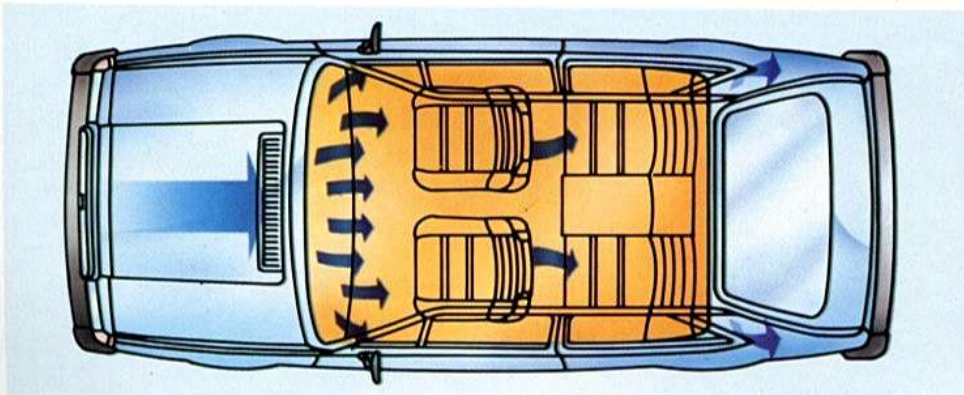
One of the main comfort features of the 340 Series is the ergonomically designed Volvo seat, giving near perfect support to the body. It has an extra-ordinary range of adjustment and, for safety's sake, integral see-through head restraints. The driver's seat is also electrically heated for additional comfort on winter mornings.

The extremely efficient heating and ventilation system is thermostatically regulated and has a three-speed fan. The electrically heated rear window gives quick demisting or de-frosting. The car's aerodynamic design helps to keep the rear window clean even when driving on wet and dirty roads -and keeps wind noise at a minimum as well.

The precise manual, or effort-less automatic, gearbox, and the ability to choose your individual driving position, together with the exceptional driving characteristics (including the tight turning circle of only 30ft. 2in.) makes driving any 340 model a pleasure.



*The seat backrests can be adjusted to the fully reclined position, and the front seats can be moved on the runners over a distance of 10 inches.*



*Six outlets in the facia, control and distribute warm and cold air; two defrosters below the windscreen, two fresh air vents in the middle of the facia and two defroster vents, left and right of the facia near the doors. Warm air is also distributed at floor level to rear seat passengers.*



*Automatic transmission lever has four positions: D (forward drive), N (neutral), R (reverse drive) and P (parked position).*

*The M45 gearbox has earned a high reputation for reliability in the Volvo 240/260 series.*







# The new Volvo 345

The most important news in the Volvo 340 series in 1980 is the introduction of the 5 door 345.

The 345 has all the features that has made the 343 so popular plus the added convenience of two more doors.

The 345 has the same compact exterior dimensions of the 343 as well as the same surprisingly large inside dimensions - the passenger compartment is only  $\frac{1}{2}$  inch shorter than that of the big Volvo 200 series so space and comfort is guaranteed. For easy entry and exit all four doors open to the very generous angle of  $70^\circ$ .



*Even easier access now for rear seat passengers. The rear doors also make cargo carried in the back more accessible.*









# Rear door versatility

Both the 343 and 345 have a large high lift tailgate to give easy access to the 13.3 cu.ft. of luggage space. With the rear seat folded down, the space is increased to 42 cu.ft. with a flat load platform measuring 4ft. 11in. x 4ft. 6in. If even this isn't enough, extra long loads can be accommodated by the simple operation of taking out the front passenger seat.





*The rear parcel shelf folds forward for easy loading and can then be hinged back to hide your luggage from prying eyes.*

*With the generous luggage space of the 340 series, even awkward items may be carried with ease. With the rear seat backrest folded flat, space is increased to 42 cu.ft.*

*The rear door opens high enough for you to stand underneath. The tailgate is easy to handle thanks to the two powerful gas struts.*



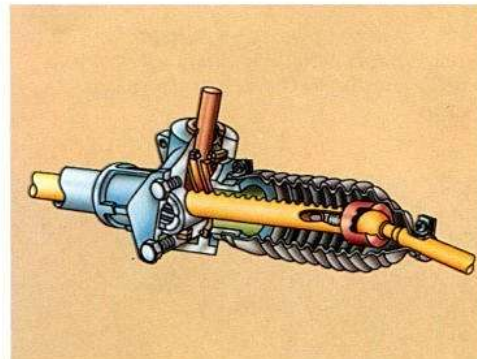


# Volvo's exceptional handling and roadholding

Volvo is world famous for injury preventive safety which helps minimise injury if you are unfortunate enough to be involved in an accident. But Volvo also helps you to avoid accidents: this we call accident preventive safety. The main properties contributing towards accident preventive safety are steering, road-holding and braking. These, when optimally balanced, give the car predictability. When a person is suddenly faced with difficult situations that call for fast and accurate reaction from both driver and car, a Volvo reacts in the manner you expect it to.

This is not as obvious as it may seem. Many cars develop sudden tendencies to over or under steer when cornering too hard; rear

wheels may lock when braking hard in an emergency, resulting in the rear end of the car going into an unexpected skid. This is unlikely to happen in a Volvo.

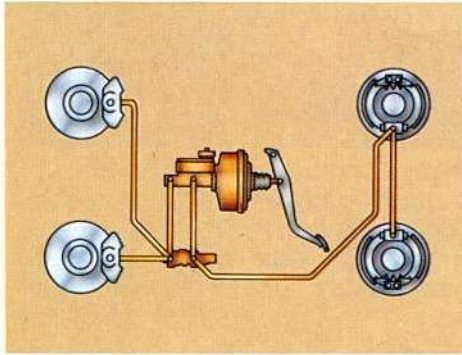


## Steering

Light, yet precise rack and pinion steering is accurate and gives instant response when you turn the steering wheel.





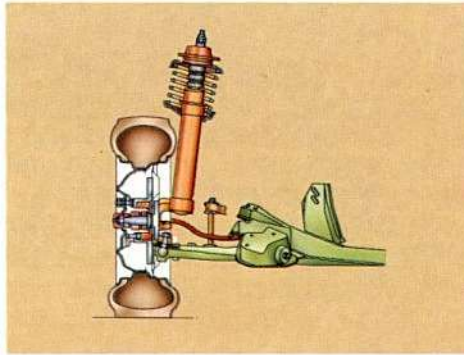


### Braking

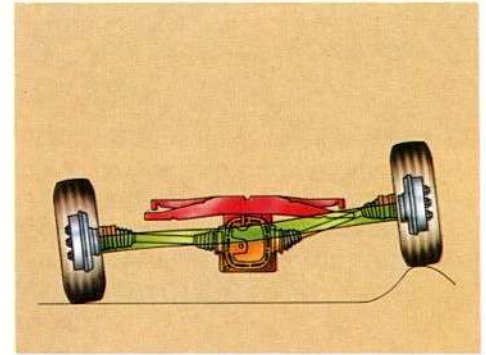
Straight-line braking adds to the predictability of the car in difficult situations. The dual circuit brake system ensures safe stops even in the unlikely event of one circuit failing.

### Roadholding

In front the 340 has spring strut suspension. At the rear, the



sophisticated De Dion axle is combined with single-leaf springs. Front stabilizers and a fairly large castor angle prevent roll when cornering and add to good straight-line stability. The front wheels have a slight offset to provide smooth and even braking on irregular surfaces. At the rear, the De Dion construction gives constant wheel track and wheel-to-



road angle, while a 2° negative camber adds to excellent cornering and directional stability.

The transmission and differential are mounted together near the rear axle similar to the Alfa Romeo and Porsche. This gives balanced weight distribution and almost ideal road holding.





# Respect for the unexpected



The aerodynamic shape of the 340 greatly contributes towards its negligible cross wind sensitivity and sure-footed stability - even at high speeds.







The Volvo 340 has a neutral-to-light understeer. This is an important factor in giving the car a predictable character - it has a built-in capacity to react normally even in an abnormal situation.



Independent front suspension and the famous De Dion suspension at the rear, means that no matter how you turn or swerve the car, the wheels will remain at the correct angle to the road.



Disc brakes in front and drums at the rear are self-adjusting. A pressure sensitive relief valve prevents premature locking of the rear wheels in emergency braking.

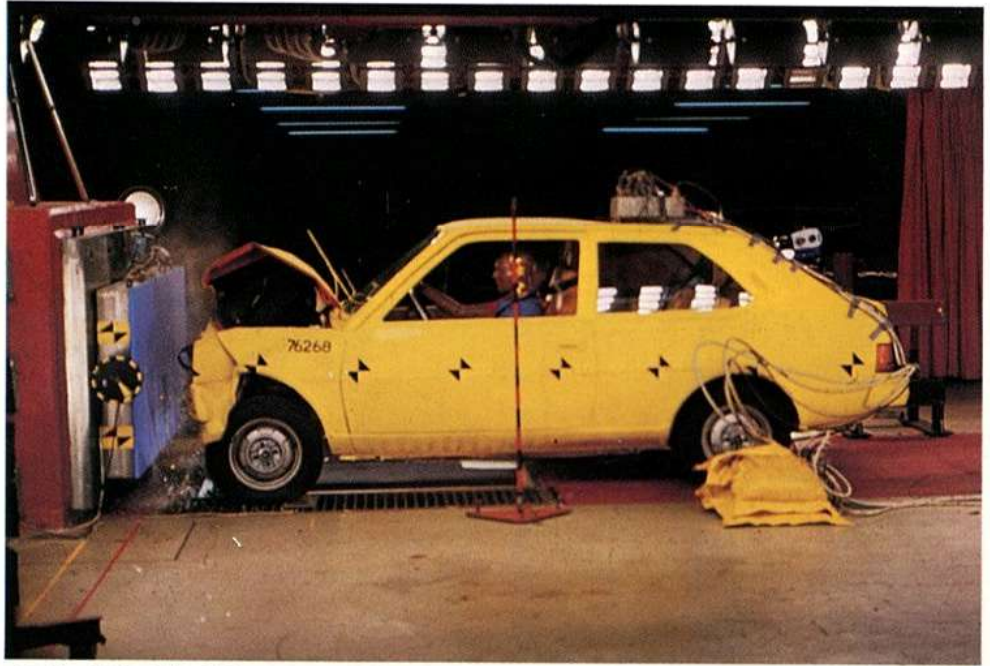




# The safest place on the road

Whilst the accident preventive safety attributes of Volvo help you to avoid accidents, you still aren't alone on the road. Accidents do happen, even through no fault of your own. It's a comforting thought that, should anything happen, you are probably safer in your Volvo than in any comparable car.

Volvo is internationally renowned as a pioneer in the field of car safety. You'll find ample evidence of this in the 340 series Volvo. The front and rear ends have energy-absorbing crumple zones, and the passenger compartment is surrounded by a strong safety cage. The fuel tank is in a well protected position at a safe distance from the rear end of the car, and completely isolated from the passenger compartment and boot. High-impact double laminated windscreen, padded steering wheel and collapsible steering column, firmly anchored seats and four inertia reel seat belts, too, protect driver and passengers should anything happen. So do the safety door locks, the safety bonnet catch and - not least - the special Volvo open head restraints which provide good protection in the event of a rear end collision.



*At the Volvo Crash Centre, extensive research leads to continuous improvements in safety measures - making Volvo a pioneer in this field. This illustration shows*

*a 30 m.p.h. crash into a concrete wall. The front end crumples and gradually absorbs impact.*

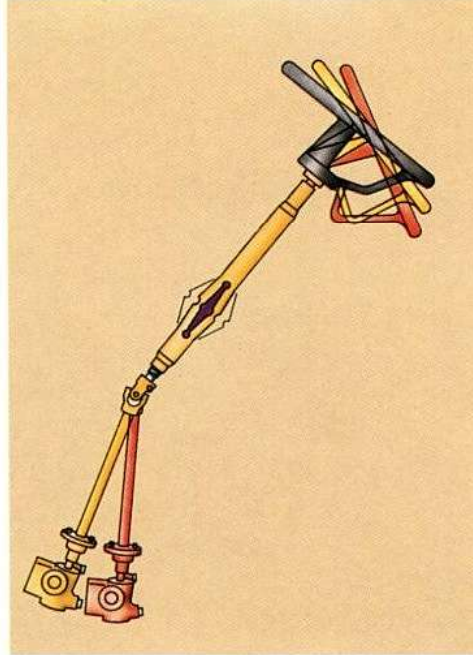


*The passenger compartment of the Volvo 340 is surrounded by a strong cage construction to protect driver and passengers in a collision.*

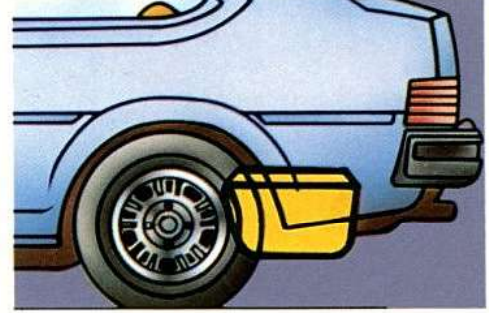




*Crash testing involves the use of specially designed dummies. They are placed in the car and connected to sensitive instruments which accurately record all reactions caused by the crash.*



*The safety-type steering column, fitted with a firm padded safety-type steering wheel, gives way in head-on collisions. This protects the driver from injury caused by the steering column being forced back inside the car.*



*The fuel tank is located well away from the rear end of the car and completely isolated from the passenger compartment and boot.*

*Crumple zones, front and rear, absorb impact energy to minimize injuries.*





# Reliability—the Volvo hallmark

A car is worth very little if it does not function properly. Reliability is one of the exceptional qualities of the Volvo 340.

Volvo ensure reliability in several ways:

- well-proven design
- high quality materials and components
- advanced manufacturing methods
- thorough quality control throughout the production process

In addition, efficient service routines have been carefully developed and full service facilities, as well as parts, are readily available at over 230 Volvo Dealers in the U.K.

Components that go into the 340 today have been tried and proven. New or redesigned components are all subject to Volvo's on-going testing procedures before being included in production cars.

One of the most critical aspects is Volvo's unique system of specification standards. Before construction of a new component system or an entirely new car is started, specification standards are decided upon for every item. Volvo requires the same high-quality standards from its suppliers and makes frequent checks to ensure that quality requirements are never allowed to deteriorate. Volvo purchase many of their components in the U.K. and are the largest single export customer for U.K. automotive parts. By the end of 1979 Volvo will have purchased £90 million worth from over 300 British companies during the year.

It goes without saying that it takes extremely sophisticated manufacturing and control methods to keep track of all components and ensure they are put together in the proper way - so that the end result will be the quality Volvo that people know and expect.

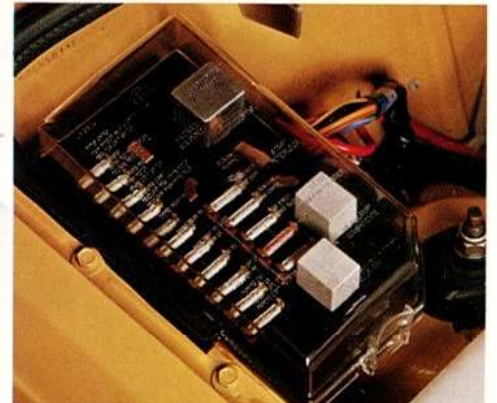


*Brake pipes are made from a special copper alloy that can resist the corrosive action of sea water.*

*The body is completely immersed in an electrostatically charged paint bath.*

*The underbody is coated with a protective layer of PVC coating and full inner-cavity rustproofing is part of the standard production process at the factory.*

*The ingenious electrical installation is equipped with a central fuse box, and a burnt-out fuse may be seen through the transparent cover at a glance.*







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# Technical information

## Transmission

1. Manual transmission 4-speed Volvo gearbox, located at the rear axle and combined in one unit with the differential and final drive reduction gear in the 'Transaxle' configuration. The gearbox is operated by remote control linkage.

Reduction ratios:

1st gear 3.705 Top gear 1.000  
2nd gear 2.159 Reverse 3.683  
3rd gear 1.369 Final drive 3.909

2. Volvo fully automatic transmission with continuously variable selection possible between 14.22:1 and 3.86:1. Like the manual Volvo 343 the automatic transmission is located at the rear axle and combined with the differential in the 'Transaxle' configuration.

## Rear suspension

De Dion rear axle combined with single leaf springs. Drive unit is mounted on the body. Final drive to the rear wheels obtained through constant velocity joints and half shafts. Very low unsprung weight. Constant wheel track and wheel angle to the road. 2° negative rear wheel camber.

## Front suspension

Spring-strut suspension, incorporating coil springs and telescopic shock absorbers: a configuration known as the MacPherson type suspension.

## Brakes

Disc brakes at the front, drum brakes at the rear, all self-adjusting. Pressure limiting valve prevents premature locking of rear brakes in an emergency stop. Dual circuit braking system with a front and rear split. All brakes servo-assisted. Long-life copper alloy brake lines with bronze nipples. Fade-resistant long-life brake pads. Mechanical handbrake acting on rear wheels. Brake warning lamp on the instrument panel.

## General equipment and finish

Black painted steel bumpers with rubber mouldings. 2-speed windscreen wipers. Electric windscreen washers. Hazard warning lights. Reversing lights. Instrument panel with speedometer, mileage recorder, coolant temperature gauge and warning lamp, fuel gauge and warning lamp. Warning lamps for direction indicators, choke, headlamps, handbrake, hazard warning lights, seat belts, rear demist, transmission low gear hold (automatic version only), brake fluid level, oil pressure and vehicle lighting. Three-point inertia reel seat belts in front and rear. Rear 'hatchback' type door. Heater and demisters with a variable flow of cold and warm air. Three-speed fan. Thermostatically controlled heating. Air extractors in the rear pillars with 'non-return' valve, giving through flow ventilation. Fully reclining front seats with open head restraints. Laminated 'high impact' windscreen. Steel reinforcements in the roof. Side-impact protection. Safety cage body with energy absorbing front and rear zones. Radio suppression kit. Cigar lighter and illuminated ashtray. Glove box lighting. Folding rear seat (seat cushion can be removed from car). Heated rear window. Electrically heated driver's seat. Cloth upholstery. Pile carpeting. Parcel shelf above boot. Anti-dazzle interior mirror. Door mirrors. Side protection mouldings. Rear fog lamp. Boot lighting. Halogen headlights. Mud flaps. Carpeted boot. Intermittent wiper operation.

## Weights/Dimensions

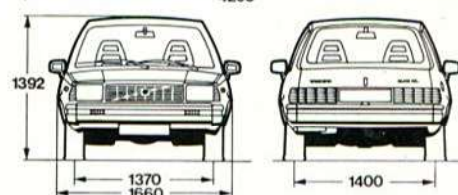
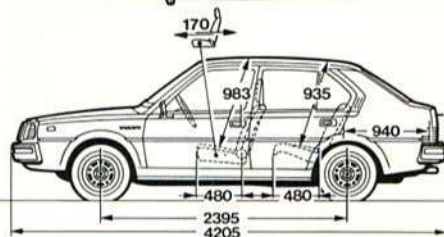
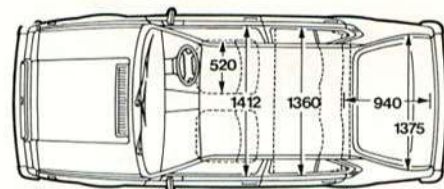
Volvo 343	Manual	Automatic
Kerb weight (DIN)	999 kg	1014 kg
Max. permissible weight	1440 kg	1485 kg
Max. load capacity	451 kg	426 kg
Trailer with brakes max.	1000 kg	900 kg
Trailer without brakes max.	494 kg	507 kg
Max. roof load capacity	50 kg	50 kg

Volvo 345	Manual	Automatic
Kerb weight (DIN)	1014 kg	1039 kg
Max. permissible weight	1440 kg	1485 kg
Max. load capacity	471 kg	446 kg
Trailer with brakes max.	1000 kg	900 kg
Trailer without brakes max.	507 kg	519 kg
Max. roof load capacity	50 kg	50 kg

## Warranty

12 months unlimited mileage warranty.

	343	345
<b>Engine</b>		
Number of cylinders.....	4	4
Engine capacity .....	1397 cc	1397 cc
Bore and stroke.....	76 x 77 mm	76 x 77 mm
Max. output DIN hp at rpm .....	70/5500	70/5500
Max. output kW at r/s.....	51.4/91.7	51.4/91.7
Max. torque Kgf.m at rpm DIN .....	11/3500	11/3500
Max. torque Nm at r/s .....	108/58.3	108/58.3
Compression ratio .....	9.25:1	9.25:1
Fuel octane rating.....	98	98
Fuel system.....	carburettor	carburettor
Cylinder head .....	Light alloy	Light alloy
<b>Cooling system</b>		
Water-cooled, closed circuit type; capacity .....	5.26 litres (10 pints)	5.26 litres (10 pints)
<b>Electrical system</b>		
Battery capacity.....	12V/36 Ah	12V/36 Ah
Alternator rating.....	700 Watts/50 A	700 Watts/50 A
Starter motor .....	1.25 hp/0.92 kW	1.25 hp/0.92 kW
Centrally located fuse box, which also houses all of the relays		
<b>Steering gear</b>		
Rack-and-pinion type steering gear. Collapsible steering column.		
Turning circle.....	9.2 m (30ft. 2in.)	9.2 m (30ft. 2in.)
Turns lock to lock.....	4.13	4.13
<b>Fuel tank</b>		
Capacity .....	45 litres (9.9 galls)	45 litres (9.9 galls)
<b>Wheels and tyres</b>		
Pressed steel, rim size.....	5Jx13	5Jx13
Steel belt radial ply tyres .....	155 SR 13	155 SR 13





# Standard equipment

	343DL	345DL
Intermittent wiper operation	●	●
Halogen headlamps	●	●
Reversing lights	●	●
Rear warning fog lamp	●	●
Luggage compartment light	●	●
Glove box light	●	●
Pile carpeting	●	●
Cloth upholstery	●	●
Electrically heated rear window	●	●
Grab handles	●	●
Electrically heated driver's seat	●	●
Anti-dazzle interior mirror	●	●
Hinged rear quarter windows	●	●
Tunnel tray	●	●
Centre console with radio compartment	●	●
Thermostatically controlled heater	●	●
Clock	●	●
Cigar lighter and ashtray illumination	●	●
Safety belt reminder	●	●
3-Point inertia reel safety belts front and rear	●	●
Child safety locks on rear doors	●	●
Low fuel level warning	●	●
Vanity mirror	●	●
Mudflaps	●	●
Side impact protection	●	●
Side protection mouldings	●	●
Laminated windscreen	●	●
Safety steering wheel	●	●
Door mirrors	●	●
Metallic colours	●	●
Radial ply steel belted tyres	●	●
Servo assisted brakes	●	●
Front seat head restraints	●	●
Reclining front seats	●	●

*The factory reserves the right to make changes at any time to prices, colours, material, equipment, specifications and models and also to discontinue models.*



