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- 1 *The wide doors give convenient access to the elegant interior.*
- 2 *The luggage space is also accessible through the rear side doors.*
- 3 *With the rear seat in position – a roomy, five-seater car with plenty of luggage space.*
- 4 *With the rear seat folded down—a comfortable, two-seater transport vehicle with room for any amount of cargo.*



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VOLVO 121 STATION WAGON

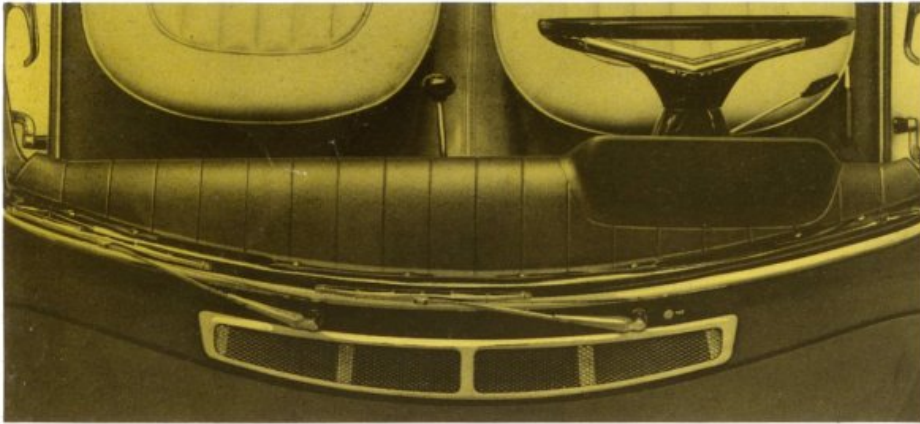


The Volvo Station Wagon is a stylish and functional vehicle fulfilling high demands as regards comfortable roominess. As a car, it comfortably accommodates five people and a great deal of luggage. By means of a few simple adjustments it can be converted into a two-seater transport vehicle with a loading space 72" long, 34" high and 50" wide. The wide and high rear opening is divided horizontally. The upper half can also be opened from inside.

The floor of the luggage space is low-slung, which makes loading and unloading easy. The floor is covered with an attractive and hard-wearing textile mat which protects fragile luggage. When carrying heavy items, the mat can be easily rolled up out of the way so that the load can be placed directly on the strong steel floor.

The Station Wagon has a very pleasing interior, the upholstery being of plastic fabric throughout.

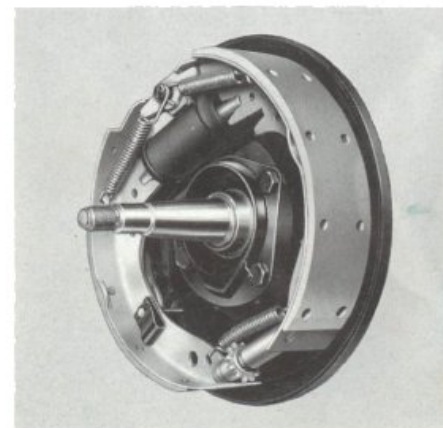
The over-riders on the rear bumper are rubber-covered to serve as a footstep when loading on the roof rack if fitted.



The windscreen is made of laminated glass and does not become opaque if hit by a stone. The fresh air intake is placed immediately in front of the windscreen. This prevents exhaust gases from traffic ahead being sucked in. Electrical windscreen washers and two-speed windscreen wipers give clear vision in poor weather conditions.

Volvo safety belts (optional extra) for the front seats are of the three-point type with both "bandolier" and waist straps. The quick release buckling device is easy to operate.

Cars fitted with the 75 h.p. engine have drum brakes of the Duo-Servo type all round – 10" drum diameter front and 9" rear. Cars fitted with the 90 h.p. engine have disc brakes protected by splash guards at the front and drum brakes of the V-type at the rear.

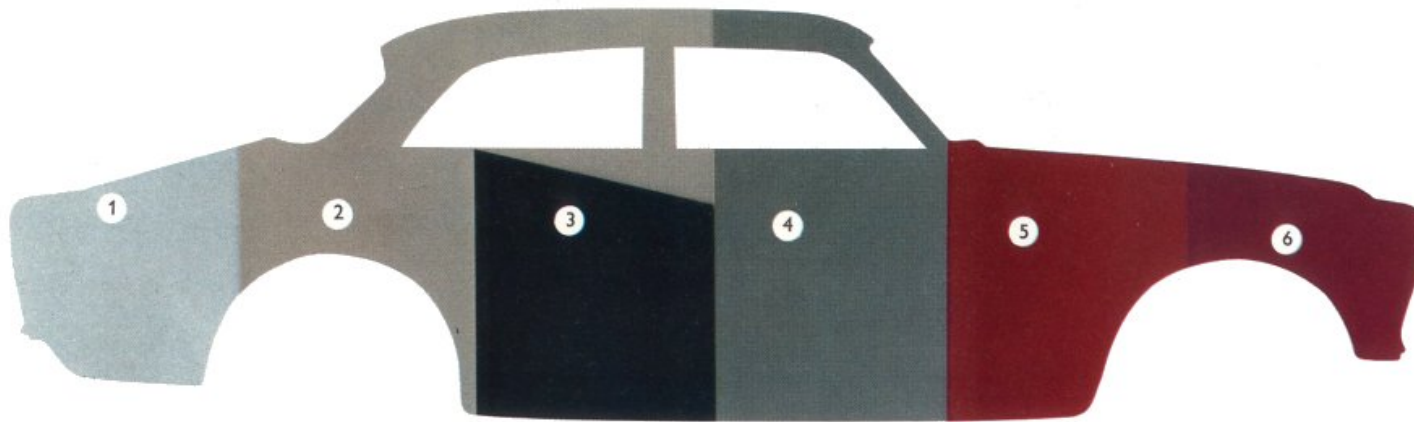


TECHNICAL INFORMATION



A Volvo car is safe. The body is rigid and resistant. The wheel suspension and springing are designed to give the best possible road-holding properties. The engine has outstanding accelerating properties thus reducing overtaking times and distances to a safe minimum. The effective, well-cooled drum brakes all round – or alternatively disc brakes at the front and drum brakes at the rear – stop the car quickly and safely.

Safety belts of the three-point type are available as an optional extra for the front seats. Strong anchorages for these belts, as well as for the rear seat belts (two-point type) are fitted during the body manufacturing stage. This guarantees the best possible security. The padded instrument panel, sun visors and upper edge of the front seat backrests contribute to maximum safety.



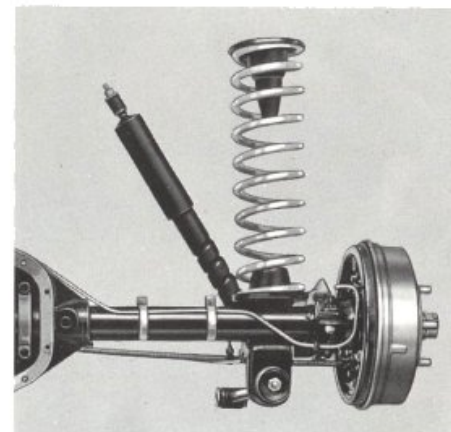
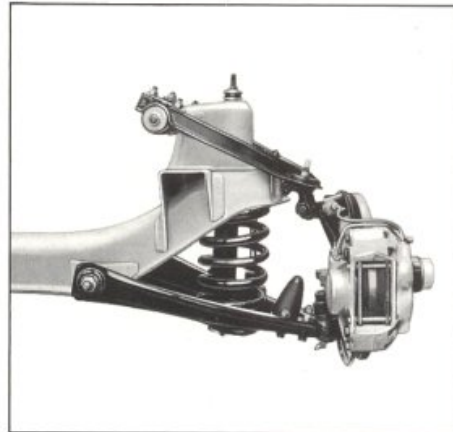
- 1 Cleaned and finely-finished metal
- 2 Phosphating
- 3 Dipped primer
- 4 Hot-sprayed primer
- 5 Undercoating
- 6 Final surface finish – three coats

The pressed steel body undergoes thorough rust-protecting treatment. After careful cleaning and grinding it is phosphated to produce a lightly etched surface which increases the adhesion of the paint. The body is then dipped in special rust-protecting paint and dried.

The durable and attractive surface finish is applied in the ultra-modern painting plant. Thanks to the thorough preparatory work and modern painting methods, the body obtains a bright and attractive surface finish which retains its lustre and protecting properties for a long time.

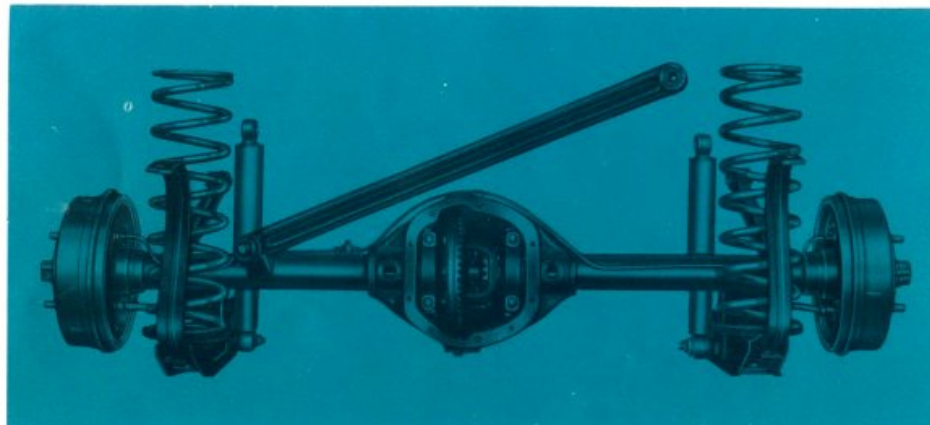
In order further to increase resistance to rust, the enclosed parts of the underbody are sprayed with oil and particularly exposed parts are treated with rubber asphalt.

The thorough anti-rust treatment and well-carried out paintwork means that the car is able to stand out-of-doors all the year round in all sorts of weather.

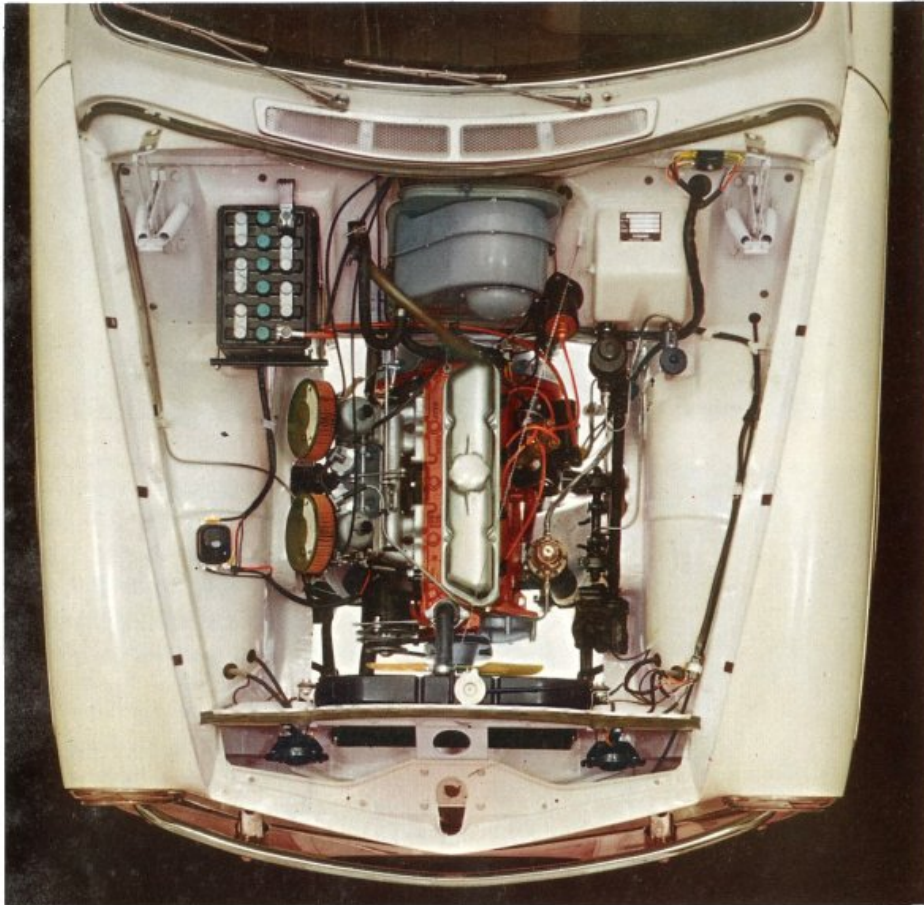


The front wheels are mounted in control arms which are carried in maintenance-free rubber bushings and ball joints. The suspension consists of coil springs and double-acting, hydraulic telescopic shock absorbers. A stabilizer reduces roll when taking bends.

The robust rear axle is mounted in two rubber-bushed, longitudinal support arms. The axle is located longitudinally by two rubber-bushed torque rods, and laterally by a tie-rod attached to the body. The spring suspension is by means of coil springs and hydraulic, telescopic shock absorbers.

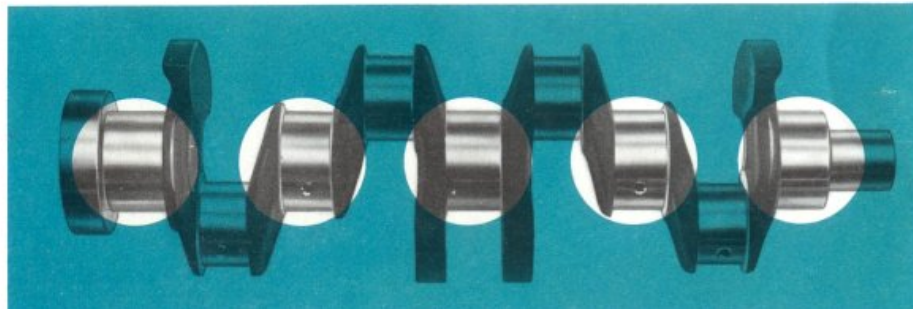


The rear axle suspension of the Station Wagon model is reinforced. The coil springs are complemented with hollow rubber springs. These permit even running with heavy loading. In addition, there are extra strong shock absorbers.



The engine compartment is well arranged. All the parts are placed so as to be easily accessible.

The robust, drop-forged, special steel, five-bearing crankshaft with ample bearing surfaces withstands heavy loading. This permits high engine speed and quiet, vibration-free running.



THE B18 ENGINE



The powerful and reliable 75 h.p. SAE engine – alternatively the 90 h.p. SAE engine – is a technical masterpiece and is built with the utmost precision.

Among the many technical features are: a sturdy five-bearing crankshaft, separate induction ports, fully-machined combustion chamber and effective cooling of the points most subjected to heat, such as the exhaust valve and sparking plug seatings.

The engine has a high mechanical efficiency, large output, good pulling power and flexibility.

The 90 h.p. SAE B18D engine has two SU carburettors, each of which feed two cylinders through separate induction ports. This means the most effective use of fuel.

The full-flow type oil filter cleans all the oil before it is pumped out to the lubricating points. This contributes to minimum wear and better oil economy.

There is a 12-volt electrical system. A high-effect dynamo and a large capacity battery mean ample resources for extra equipment such as a radio, fog lamp, spotlight, etc.

The starter motor has an output of 1 h.p. This means easy starting at low temperatures.



SPECIFICATIONS



Volvo 121 four-door (12138)

Type B 18 A engine. Four-speed gearbox. Drum brakes

Volvo 122 S four-door (12234)

Type B 18 D engine. Four-speed gearbox. Disc brakes at front, drum brakes at rear

Volvo 122 S two-door (13234)

Type B 18 D engine. Four-speed gearbox. Disc brakes at front, drum brakes at rear

Volvo 121 Station Wagon (22134)

Type B 18 A engine. Four speed gearbox. Drum brakes

Type B 18 A engine

Four-cylinder O.H.V. and five-bearing crankshaft

Bore	84.14 mm (3.313")
Stroke	80 mm (3.15")
Capacity	1.78 litres (109 cu.in.)
Compression ratio	8.5:1
Maximum output	75 h.p. (SAE) at 4500 r.p.m.
Maximum torque	14.0 kgm (101 lb.ft.) (SAE) at 2800 r.p.m.
Carburettor	Zenith down-draught
Oil filter	Full-flow type
Air cleaner	Oil bath type

Type B 18 D engine

The same construction and dimensions as for the B 18 A engine

Maximum output	90 h.p. (SAE) at 5000 r.p.m.
Maximum torque	14.5 kgm (105 lb.ft.) at 3500 r.p.m.
Carburettors	2 SU horizontal carburetters

Oil filter	Full-flow type
Air cleaner	Oil bath type

Cooling system

Very effective radiator. The cooling system contains 8 litres (14 imp. pints). Water circulation thermostatically controlled. By-pass channel for restricting circulation when starting from cold.

Battery

Voltage	12 V
Capacity	60 Ah

Dynamo

Fan-cooled and with automatic voltage control. Effect Max. 360 W

Starter motor

Output 1 h.p.
Starter contact in ignition switch. The ignition switch and coil connected by a tamper-proof armoured cable.

Clutch

Single dry-disc clutch, hydraulically controlled. External diameter of clutch disc 215.9 mm (8 1/2")

Gearbox

Four-speed, fully-synchronized with floor-mounted gear lever.

Reduction ratios:	1st speed	3.13:1
	2nd speed	1.99:1
	3rd speed	1.36:1
	4th speed	1:1
	Reverse	3.25:1

Rear axle

Hypoid type.

Reduction ratio:	4.1:1	Station Wagon 4.56:1
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Steering gear

Left or right hand drive.
Cam and roller.
Number of steering wheel turns from lock to lock 3 1/4

Front wheel suspension

Independent suspension with rubber-mounted control arms and ball joints, coil springs and stabilizer.

Rear wheel suspension

Rigid rear axle mounted in two longitudinal, rubber-mounted support arms and two longitudinal rubber-

mounted torque rods. The axle is located laterally by a tie-rod attached to the body. Coil springs. In addition, the Station Wagon has progressively operating auxiliary springs of the rubber-bush type.

Shock absorbers

Double-acting, hydraulic, telescopic shock absorbers at front and rear. The Station Wagon model has extra strong shock absorbers at the rear.

Foot brake

On cars with drum brakes at front and rear

Duo-Servo drum brakes. Hydraulic and self-centring. Drum diameter 254 mm (10") front 229 mm (9") rear
Total brake lining area 948 cm² (147 sq. in.)

On cars with disc brakes at front and drum brakes at rear

Front:

Hydraulic disc brakes of the three-cylinder type. Protected by splash guards and self-adjusting.
Brake disc (diameter thickness) 107/8 x 1/2"
Brake friction area per front wheel 92.5 cm² (14.3 sq.in.)

Rear:

Drum brakes of V-type. Hydraulic and self-centring. Brake friction area per wheel 210 cm² (32.5 sq.in.)

Handbrake

Operating mechanically on the rear wheels.

Wheels and tyres

Pressed steel wheels. All wheels balanced.

Rim size	4J x 15"
Station Wagon model	4 1/2J x 15"

Tyres with white sidewalls. Black tyres on Station Wagon model.

Size	5.90-15"
Station Wagon model	6.40-15"

Body

Integral, all-welded steel body, completely rust-protected. All enclosed spaces in the underbody treated with oil-mist spray. Particularly exposed parts treated with underbody sealing compound.

Fuel tank

Located at rear.
Capacity 45 litres (10 imp.galls.)

Lighting equipment

Fixed full-headlight signal controlled by means of the directional indicator switch lever. Flashers at front and rear. Stop and rear lights with built-in reversing lamps which light up when reverse gear is engaged.

The interior lighting is switched on when either of the front doors is opened. Adjustable instrument lighting. Map-reading lamp.

Instrumentation

Combination instrument consisting of speedometer, fuel and water temperature gauges mileometer and tripmeter. Warning lamps for charging, oil pressure, full headlights and directional signals.

Other equipment

Horn ring on steering wheel. Foot dipper switch. Directional signal switch lever with automatic return. Fresh-air fed heater and ventilation unit. Warm air supply thermostatically controlled. Two-speed ventilation fan. Two-speed electrical windscreen wipers with automatic return. Electrical windscreen washer with two nozzles. Padded sun vizors. Dazzle-free rear view mirror. External rear view mirrors on Station Wagon model. Place for radio and loud-speaker. Map pockets on front doors. Cigarette lighter. Ashtrays at front and rear. Tool equipment including jack. Spare wheel.

Common dimensions for all cars in the 120-series

Wheelbase	2600 mm (102 1/2")
Track, front and rear	1315 mm (51 3/4")
Overall width	1620 mm (63 3/4")

Dimensions and weights for two- and four-door cars

Overall length	4450 mm (175")
Overall height unloaded	1505 mm (59 1/4")
Turning circle	approx 9.6 m (31 ft. 6 in.)
Kerb weight, two-door	approx 1070 kg (2360 lb.)
Kerb weight, four-door	approx 1090 kg (2400 lb.)
Kerb weight, four-door with overdrive	approx 1110 kg (2440 lb.)

Dimensions and weight of Station Wagon model

Overall length	4490 mm (176 1/2")
Overall height, unloaded	1530 mm (60 1/4")
Ground clearance, unloaded	220 mm (8 3/4")
Ground clearance, with 4 persons	180 mm (7")
Turning circle	approx 10.3 m (33 ft. 10 in.)
Kerb weight	approx 1180 kg (2600 lb.)

Luggage compartment

Length	1185 mm (46 3/4")
Length with rear seat down	1830 mm (72")
Overall width	1260 mm (49 1/2")
Height	865 mm (34")
Space with rear seat up	approx 1.1 m ³ (40 cu.ft.)
Space with rear seat down	approx 1.85 m ³ (65 cu.ft.)

Rear opening

Width	1055 mm (41 1/2")
Height	780 mm (30 3/4")

The factory reserves the right to modify prices, design and equipment.

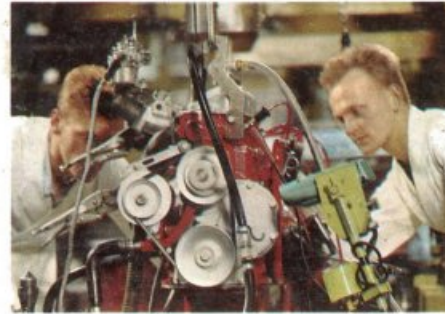


MANUFACTURING CONTROL



1 *All Volvo cars undergo a water-proofing test. They are subjected to intensive water spraying from all directions for several minutes, which reveals any leakage.*

2 *All Volvo engines are test-run after assembly for about 20 minutes in special test benches. During the first minutes they are flushed through with heated engine oil in order to clean them thoroughly internally. They are then tested for valve clearance, carburettor settings, etc.*



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3 *The function of the gearbox is tested in a sound-proof room which is equipped with ingenious measuring instruments. The gearboxes are tested in special test benches while technicians check for perfect synchronization and quiet running at all engine speeds.*



AB VOLVO
GÖTEBORG SWEDEN