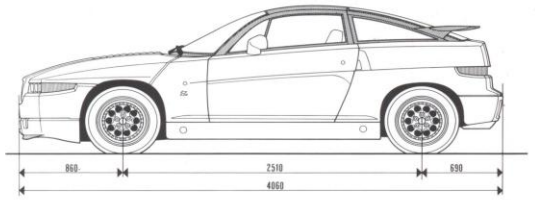
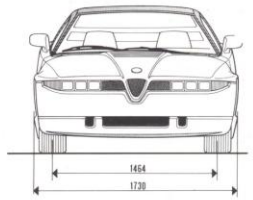
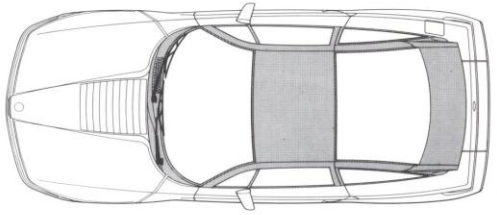
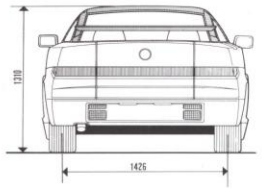
ALFA ROMEO ES 30

Specification









ENGINE

Main features

No. of cylinders	V6 at 60°
Layout	longitudinally-mounted at front
Cycle-stroke	petrol fed, 4
Bore × stroke	93 × 72.6 mm
Capacity	2959 cc
Compression ratio	10 : 1
Max. power output (DIN)	210 bhp (152 kW-EEC)
– at	6200 rpm
Max. torque (DIN)	25 mkg (245 Nm-EEC)
– at	4500 rpm
Octane	lead free RON 95 petrol
Catalytic converter	three-way with Lambda probe

Structural layout

Cylinder spacings	133 mm
Main bearings	4
Cylinder block	light alloy
Cylinder head	light alloy

Timing gear		
Valve arrangement		V. shaped, overhead
Timing		SOHC per bank of cylinders
Timing control		by toothed belt
Phasing		
Intake	beginning	13° before TDC
	end	55° after BDC
Exhaust	beginning	53° before BDC
	end	16° after TDC
Valve play at cold starting	beginning	0.50 mm.
	end	0.25 mm.
Ignition		
Type		electronic digital, integral with the ignition
Firing order		1-4-2-5-3-6
Fuel feed		
Fuel pump		electric
Injection		electronic Bosch Motronic ML 4·1 with Lambda probe
Air filter		dry-tipe with paper cartridge
Lubrication		
Type		forced-feed with lobe-type pump
Filter		cartridge
Engine cooling		
Type		water-cooled by circulating pump and sealed circuit, radiator and extra expansion tank
Control		by thermostat
Fan		electric, controlled from a thermostatic switch on the radiator

TRANSMISSION

Power drive		to rear wheels
Clutch		dry, single plate, with diaphragm spring, hydraulically operated
Driven plate diameter		215 mm
Friction ring dimensions (OD × ID)		215 × 145 mm
Transmission ratios:		
1st		2.875 : 1
2nd		1.720 : 1
3rd		1.226 : 1
4th		0.946 : 1
5th		0.780 : 1
Reverse		3.000 : 1
Differential gear		
Location		in the gearbox
Final drive	Type	bevel hypoid with self-locking device (25%)
	Ratio	3.909 : 1 (11/43)

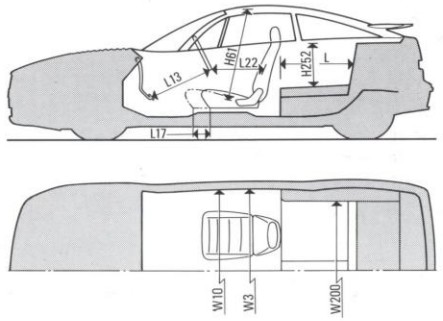
CHASSIS

Body		self-bearing structure
Braking system		front and rear discs
Control		pedal-operated, diagonal split-type hydraulic circuit and brake-servo
Front discs		self-ventilated
– diameter		284 mm
– total front brake lining		1437 cm²
Rear discs		self-ventilated
– diameter		250 mm
– total rear brake lining		1010 cm²
Parking brake		acting on the rear wheels, manual control and mechanical transmission

Front suspension		independent wheel struts with transverse links, coaxial spring and dampers and anti-roll bar
Flexibility at the wheel		0.31 mm/kg
Wheel wobble	upper	45 mm
	lower	60 mm
Wheel position (static load) (2 people + 20 kg):		
– camber		−2°
– caster		3°50'
– toe-in		−3 mm
Dampers		hydraulic-telescopic, double-acting, with car lifting device (40 mm stroke)
Rear suspension		De Dion rear axle with converging rods and Watt parallel links, coil springs co-axially mounted with the dampers
Flexibility at the wheel		0.38 mm/kg
Wheel wobble	upper	56 mm
	lower	74 mm
Dampers		hydraulic-telescopic, double-acting, with car lifting device (40 mm stroke)
Power steering		servo-assisted rack-and-pinion
Steering column		collapsible with two universal joints, adjustable fore/aft and for height
Turning circle		10.1 m
Steering wheel turns lock to lock		3.2
Road wheels		
Front rims		7 J × 16" alloy modular
Rear rims		8 J × 16" alloy modular
Front tyres		205/55 ZR 16 Tubeless
Rear tyres		225/50 ZR 16 Tubeless
Tyre pressure		
– front		2.1 bar
– rear		2.1 bar
Spare wheel		
– rim		3¼ B × 18"
– tyre		115/85 R 18
– inflation pressure		4.2 bar
Electrical equipment		
Voltage		12 V
Alternator: DC output		70 A
Starter motor		1.4 kW
Battery capacity		70 Ah

INTERNAL DIMENSIONS

W3	Front waistline width	1330 mm
W10	Front elbow width	1340 mm
H61	Front seat useful height	940 mm
L13	Centre brake-lower steering wheel edge	615 mm
L17	Seat fore/aft adjustment	160 mm
L22	Steering wheel-front backrest	620 mm
H252	Boot height	510 mm
W200	Max boot width	1215 mm
L	Boot length	550 mm
V10	Boot capacity	350 dm³



WEIGHTS

Kerb weight (DIN)*		1260 kg
Distribution	front	56%
	rear	44%
Laden weight		1430 kg
Distribution	front	54%
	rear	46%
Maximum payload		170 kg
No. of seats		2

(*) Kerb weight inclusive of fuel, water, spare wheel and accessories

PERFORMANCE

Top speed		245 km/h
Speed with engine at 1000 rpm		38.1 km/h
Power to weight ratio	kg/bhp	6
	kg/kW	8.30
Standing acceleration		
(2 adults + 20 kg) (secs)		
– 0 to 100 km/h		7
– 0 to 1000 m		27.4
Conventional fuel consumption		
– at 90 km/h		7.2 l/100 km
– at 120 km/h		9.2 l/100 km
– urban cycle		13.2 l/100 km

CAPACITIES

Fuel tank	68 litres
including a reserve of	8 litres
Oil pan and filter	0.9 kg
Radiator, engine, expansion tank and heating system, liquid	10 litres
Gearbox and differential oil	2.05 kg
Front and rear hydraulic brake circuits and clutch, fluid	0.5 kg
Screen washer bottle	6 litres

CHARACTERISTIC ENGINE CURVES