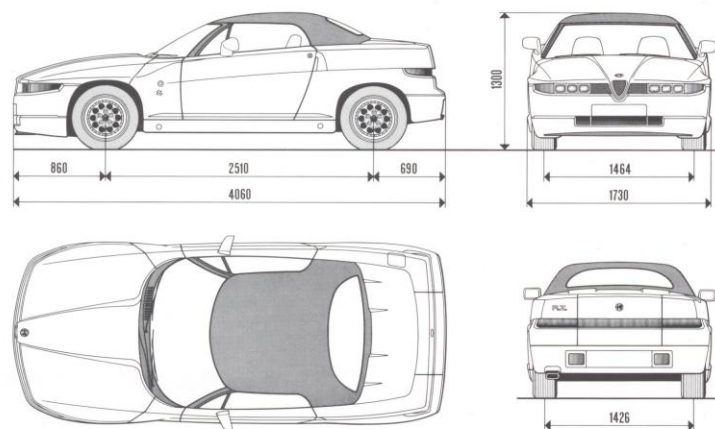


ALFA ROMEO R.Z.

Technical specification



ENGINE

Main features

No. of cylinders	6, in 60° V
Position	front longitudinal
Cycle-stroke	Otto-4
Bore x stroke	93 x 72.6 mm
Capacity	2959 cc
Compression ratio	10:1
Max power output DIN	210 bhp (152 kW - EEC)
at	6200 rpm
Peak torque DIN	25 mkg (245 Nm - EEC)
at	4500 rpm
Fuel required	unleaded petrol (95 RON)
Catalytic converter	three-way, with lambda probe

Structure

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

Timing gear		
Valve arrangement		overhead, in a V
Timing		SOHC (per row)
Timing control		toothed belt
Valve gear timing		
Inlet	{ opens	13° BTDC
	{ closes	55° ABDC
Exhaust	{ opens	53° BBDC
	{ closes	16° ATDC
Valve play when cold	{ inlet	0.50 mm
	{ exhaust	0.25 mm
Ignition		
Type		electronic digital combined with injection
Fire order		1-4-2-5-3-6
Fuel feed		
Petrol pump		electric
Injection		Bosch Motronic ML4.1 electronic, with lambda probe
Air filter		dry-type with paper cartridge
Lubrication		
Type		forced-feed, with lobe pump
Oil filter		with cartridge
Cooling		
Type		liquid, forced circulation with sealed circuit; radiator and supplementary expansion tank
Control		by thermostat
Fan		electric, controlled by thermostatic switch on the radiator

TRANSMISSION

Power drive		to rear wheels
Clutch		dry, single plate, with diaphragm spring and hydraulic control
Diameter of driven plate		215 mm
Dimensions of friction ring (O.D. x I.D.)		215 x 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 unit		
Position		in the gearbox
Final drive	{ Type	conical and hypoid, with self-locking device (at 25%)
	{ Ratio	3.909:1 (11/43)

CHASSIS

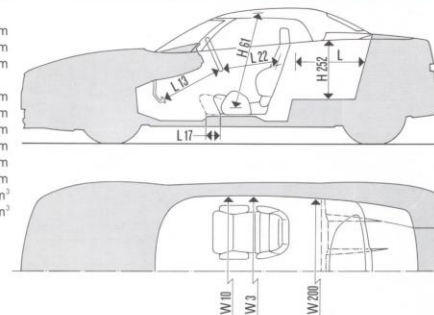
Body	stress-bearing structure
Braking system	
Control	front and rear discs
Front discs (self-ventilating)	pedal, driven with dual hydraulic circuit and servo-assist
- diameter	284 mm
- total front brake lining	1437 cm ²
Rear discs (self-ventilating)	
- diameter	250 mm
- total rear brake lining	1010 cm ²
Parking brake	acting on rear wheels, with manual control and mechanical transmission

Front suspension		independent wheels with transverse four-bar links, coaxial springs and dampers, roll bar
Wheel flexibility		0.31 mm/kg
Wheel wobble	{ upper	45 mm
	{ lower	60 mm
Front wheel geometry with static load (2 adults + 20 kg)		
- camber		-2°
- caster		3°50'
- toe-in		-3 mm
Dampers		hydraulic-telescopic dual acting, with vehicle lift device (stroke 40 mm)
Rear suspension		De Dion axle, with converging struts and Watt parallelogram; helical springs coaxial with the dampers
Wheel flexibility		0.38 mm/kg
Wheel wobble	{ upper	56 mm
	{ lower	74 mm
Dampers		hydraulic-telescopic dual acting, with vehicle lift device (stroke 40 mm)
Steering		rack and pinion, with power steering
Steering column		2-element collapsible, with height and axial adjustment
Turning circle		10.1 m
Steering wheel turns lock to lock		3.2
Wheels		
Front rims		7 J x 16" in alloy, modular
Rear rims		8 J x 16" in alloy, modular
Front tyres		205/55 ZR 16 (Tubeless)
Rear tyres		225/50 ZR 16 (Tubeless)
Inflation pressure		
- front tyres		2.1 bar
- rear tyres		2.1 bar
Spare wheel		
- rim		3 1/4 B x 18"
- tyre		115/85 R 18
- inflation pressure		4.2 bar
Electrical equipment		
Voltage		12 V
Alternator		70 A
Starter motor		1.4 kW
Battery (capacity)		70 Ah

INTERIOR DIMENSIONS

VDA measurements		
W3	Front waistline width	1330 mm
W10	Front elbow-room	1340 mm
H61	Front head-room	885 mm
L13	Centre brake-lower edge of steering wheel	615 mm
L17	Seat travel	160 mm
L22	Steering wheel-front squab	620 mm
H252	Boot height*	620 mm
W200	Max boot width*	370 mm
L	Boot length*	550 mm
V10	Boot capacity*	390 dm ³
	Boot capacity (with car open)	120 dm ³

* with car closed



WEIGHTS

Kerb weight (DIN)(*)	1380 kg
Distribution	{ front 56%
	{ rear 44%
Weight fully laden	1550 kg
Distribution	{ front 54%
	{ rear 46%
Max payload	170 kg
No. of seats	2

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

PERFORMANCE

Top speed	230 km/h
Speed with engine at 1000 rpm in 5th	38.1 km/h
Power to weight ratio {kg/bhp	6.6
(kerb weight) {kg/kW	9.1

Standing acceleration

(2 adults + 20 kg) (secs)

0 to 100 km/h	7.5
0 to 1000 m	30.1

Conventional fuel consumption

at 90 km/h	7.2 l/100 km
at 120 km/h	9.3 l/100 km
urban cycle	13.2 l/100 km

CAPACITIES

Fuel tank	70 litres
including a reserve of	8 litres
Engine oil sump and filter	6 litres
Radiator, engine, expansion tank and heating system, liquid	10 litres
Gearbox and differential, oil	2.05 kg
Front, rear hydraulic brake circuit and clutch, liquid	0.5 kg
Screenwasher bottle	2 litres

CHARACTERISTIC ENGINE CURVES (EEC)

