

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemVitara 2.0 V61995 to 1997

Type	DOHC 24V V6	
Capacity (cm ³) / number of cylinders	1998 / 6	
Compression ratio / pressure	bar	9.5 / ≥11.0
Oil pressure	bar	[3.9 to 4.7]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order	1-6-5-4-3-2	
No 1 cylinder position	TCE	
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.90

Fuel systemVitara 2.0 V61995 to 1997

Idle speed - manual [auto]	rpm	750±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Suzuki	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	2.9
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemVitara 2.0 V61995 to 1997

Type	Direct electronic	
Ignition coil	—	
Primary resistance	ohms	0.61 to 0.73
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	—
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs	NGK/Nippon Denso	
Type	BKR6E / K20PR-U	
Electrode gap	mm	0.70 to 0.80

Electrical systemVitara 2.0 V61995 to 1997

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm	13.6 ot 14.4 / 85 / —	
Starter motor current / voltage - cranking	A / V	300 / 7.7
- locked	A / V	780 / 4.0

Running gearVitara 2.0 V61995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.5
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	216/65x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.6 / 1.6

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to +6.0
Camber	+30'±1°	
Castor	2°±1°	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber	—	

Torque wrench settingsVitara 2.0 V61995 to 1997

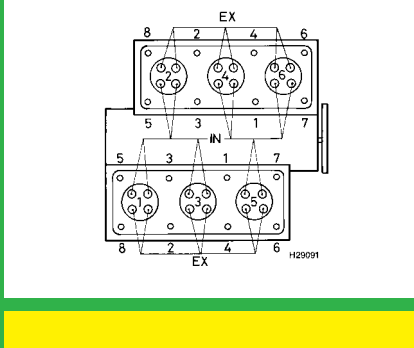
Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	80
- stage 3	Nm	105
- stage 4	Nm	—
Big-end bearings	Nm	45
Main bearings	Nm	WSM
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	70
Front hubs	Nm	120 to 170
Rear hubs	Nm	120 to 200
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	25

CapacitiesVitara 2.0 V61995 to 1997

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.5. Transfer: 1.7
Automatic transmission - refill	litres	2.5
Final drive	litres	Front: 1.0. Rear: 2.2
Cooling system	litres	8.0
Fuel tank	litres	70

Notes and Illustrations

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1998 cm³, 24V