

Engine & Cooling

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Automotive Technical DATA BOOK

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Engine and cooling system Vitara Sport SPi 1994 to 1997

Type		SOHC 55kW
Capacity (cm ³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	8.9 / 13.7
Oil pressure	bar	[3.6 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.17
- exhaust	mm	0.16 to 0.20
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82 or 88
Radiator cap pressure	bar	0.90

Fuel system Vitara Sport SPi 1994 to 1997

Idle speed - manual [auto]	rpm	800±50
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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	-
O ₂ @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection		Suzuki
Type / ref		SPI
Main jet / needle		-
Injection pressure	bar	1.6 to 2.1
Pump pressure	bar	-
Octane rating	RON	95[E 95 RON]

Ignition system Vitara Sport SPi 1994 to 1997

Type		Electronic
Ignition coil		-
Primary resistance	ohms	1.35 to 1.65
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		-
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation		-
Ignition timing - basic [static	° Crankshaft @ rpm	8±1 BTDC @ 800±50
V = Vacuum NV = No Vacuum		V
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
Type		BP6ES
Electrode gap	mm	0.70 to 0.80

Electrical system Vitara Sport SPi 1994 to 1997

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / 50 / 3000
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

Running gear Vitara Sport SPi 1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	3.0 with backing

Tyres		
Saloon	Size	-
Estate / Van	Size	195x15
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		+1°30'±1°
King pin inclination		-

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-
Camber		-

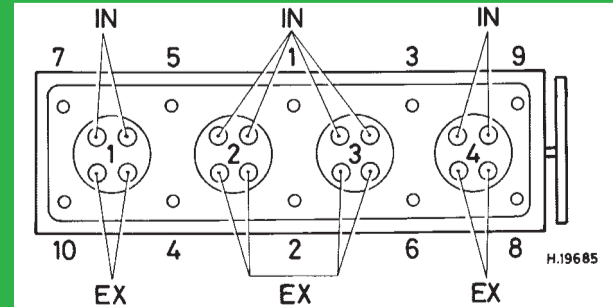
Torque wrench settings Vitara Sport SPi 1994 to 1997

Cylinder head - stage 1	Nm	35
- stage 2	Nm	55
- stage 3	Nm	70 to 75
- stage 4	Nm	-
Big-end bearings	Nm	33 to 37
Main bearings	Nm	50 to 57
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	75 to 80
Front hubs	Nm	120 to 170
Rear hubs	Nm	120 to 200
Wheel nuts / bolts	Nm	50 to 80
Spark plugs	Nm	25 to 30

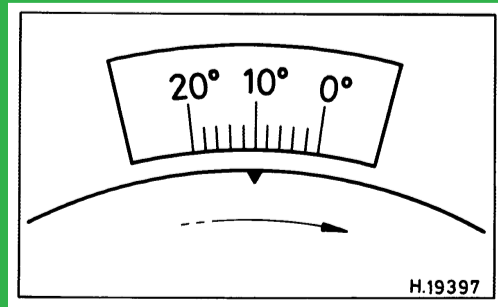
Capacities Vitara Sport SPi 1994 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.5. Transfer: 1.7
Automatic transmission - refill	litres	-
Final drive	litres	Front: 1.0. Rear: 2.2
Cooling system	litres	5.3
Fuel tank	litres	42

Notes and Illustrations



1590 cm³, 16V



1590 cm³, 16V