

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemVitara Sport SPi1994 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 systemVitara Sport SPi1994 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
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ 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 systemVitara Sport SPi1994 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 systemVitara Sport SPi1994 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 gearVitara Sport SPi1994 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		—

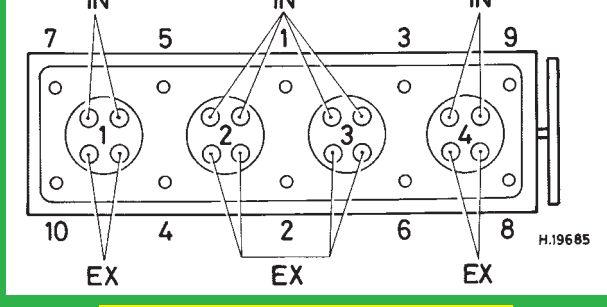
Torque wrench settingsVitara Sport SPi1994 to 1997

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

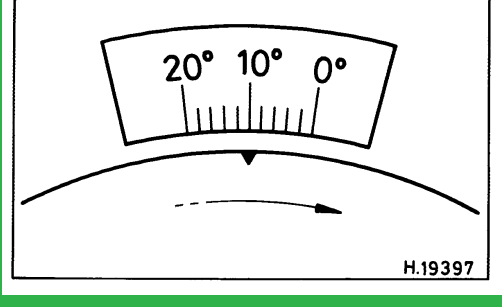
CapacitiesVitara Sport SPi1994 to 1997

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