

Engine &amp; Cooling

Fuel

Ignition

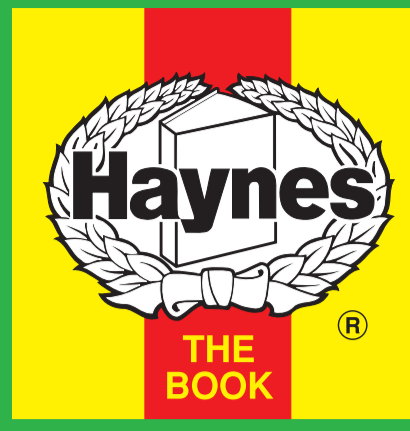
Electrical

Running gear

Torque settings

Capacities

Notes &amp; Illustrations



# Automotive Technical DATA BOOK

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## Engine and cooling system

Vitara EFI 1991 to 1997

Type	SOHC 16V 71kW G16B	
Capacity (cm <sup>3</sup> ) / number of cylinders	1590 / 4	
Compression ratio / pressure	bar	9.5 / ≥12.0
Oil pressure	bar	[3.6 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.08
- exhaust	mm	0.12
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 EFI 1991 to 1997

Idle speed - manual [auto]	rpm	850±50 [900±10]
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 <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Suzuki	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

## Ignition system

Vitara EFI 1991 to 1997

Type	Electronic	
Ignition coil	—	
Primary resistance	ohms	0.9 to 1.1
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	5±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	BKR6E	
Electrode gap	mm	0.70 to 0.80

## Electrical system

Vitara EFI 1991 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	300 / 7.7 or 150 / 9.0
- locked	A / V	980 / 4.4 or 380 to 500 / 5.0

## Running gear

Vitara EFI 1991 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	3.0 with backing
<b>Tyres</b>		
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 EFI 1991 to 1997

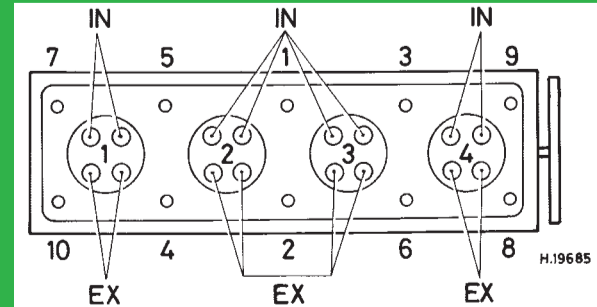
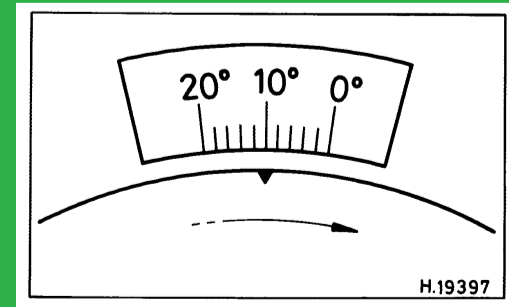
Cylinder head - stage 1	Nm	35
- stage 2	Nm	55
- stage 3	Nm	65 to 70
- stage 4	Nm	—
Big-end bearings	Nm	33 to 37
Main bearings	Nm	50 to 57
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	75 to 80
Front hubs	Nm	120 to 170
Rear hubs	Nm	120 to 200
Wheel nuts / bolts	Nm	50 to 80
Spark plugs	Nm	25 to 30

## Capacities

Vitara EFI 1991 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.5. Transfer: 1.7
Automatic transmission - refill	litres	2.0
Final drive	litres	Front: 1.0. Rear: 2.2
Cooling system	litres	5.1 [AT: 5.0]
Fuel tank	litres	42. 5D: 55

## Notes and Illustrations

1590 cm<sup>3</sup>, 16V1590 cm<sup>3</sup>, 16V