

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemSamurai 1.3i1995 to 1996

Type		G13BA SOHC 8V
Capacity (cm ³) / number of cylinders		1298 / 4
Compression ratio / pressure	bar	9.5 / ≥11.7
Oil pressure	bar	[3.0 to 4.1]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.23 to 0.27 H
- exhaust	mm	0.26 to 0.30 H
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 systemSamurai 1.3i1995 to 1996

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 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[U]

Ignition systemSamurai 1.3i1995 to 1996

Type		Computerized
Ignition coil		Nippon Denso
Primary resistance	ohms	0.90 to 1.10
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		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8±1 BTDC @ 800±50
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
Type		BPR5ES
Electrode gap	mm	0.70 to 0.80

Electrical systemSamurai 1.3i1995 to 1996

Battery	V / CC / RC	12 / 30, 45Ah
Alternator voltage / full load current / engine rpm		14.5 to 14.8 / 50 / 3000
Starter motor current / voltage - cranking	A / V	150 / 9.0
- locked	A / V	380 to 500 / 5.0

Running gearSamurai 1.3i1995 to 1996

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	—
Estate / Van	Size	205/70x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.4 / 1.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 6.0
Camber		+1°
Castor		+3°30'
King pin inclination		+9°

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

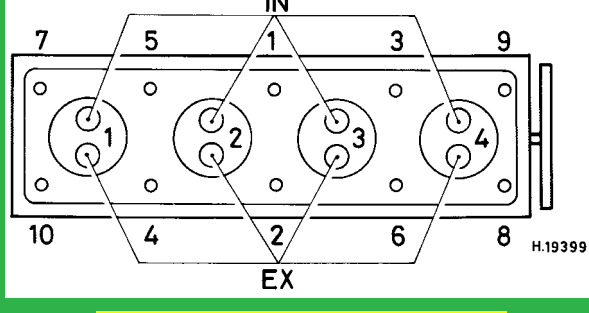
Torque wrench settingsSamurai 1.3i1995 to 1996

Cylinder head - stage 1	Nm	70 to 75
- stage 2	Nm	—
- stage 3	Nm	—
- 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	68 to 72
Front hubs	Nm	150 to 270
Rear hubs	Nm	80 to 120
Wheel nuts / bolts	Nm	50 to 80
Spark plugs	Nm	25 to 30

CapacitiesSamurai 1.3i1995 to 1996

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.3. Transfer: 0.8
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.5. Rear: 1.3
Cooling system	litres	4.8
Fuel tank	litres	40

Notes and Illustrations



1298 cm³, 8V