

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemSamurai1992 to 1995

Type	G13BA SOHC 8V 47kW	
Capacity (cm ³) / number of cylinders	1298 / 4	
Compression ratio / pressure	bar	9.5 / 13.7
Oil pressure	bar	[3.0 to 4.1]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.13 to 0.18
- 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 systemSamurai1992 to 1995

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1500 to 2500
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Aisan	
Type / ref	2V Downdraught	
Main jet / needle	95, 108	
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	91[E 91 RON]

Ignition systemSamurai1992 to 1995

Type	Electronic	
Ignition coil	Nippon Denso	
Primary resistance	ohms	1.35 to 1.65
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Nippon Denso	
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 850±50
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	16 to 20 @ 5500
Vacuum range check	mbar	130 to 270
Maximum vacuum advance	° Crankshaft	11 to 15
Spark plugs	NGK/Champion	
Type	BPR5ES / RN9YC	
Electrode gap	mm	0.70 to 0.80

Electrical systemSamurai1992 to 1995

Battery	V / CC / RC	12 / 190 / 65
Alternator voltage / full load current / engine rpm	14.2 to 14.8 / 45 / 3000	
Starter motor current / voltage - cranking	A / V	150 / 9.0
- locked	A / V	380 to 500 / 5.0

Running gearSamurai1992 to 1995

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	195x15: 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 settingsSamurai1992 to 1995

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

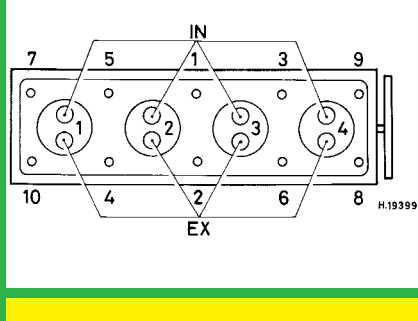
CapacitiesSamurai1992 to 1995

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	1.3. Transfer: 0.8
Automatic transmission - refill	litres	—
Final drive	litres	Front: 2.0. Rear: 1.5
Cooling system	litres	5.0
Fuel tank	litres	40

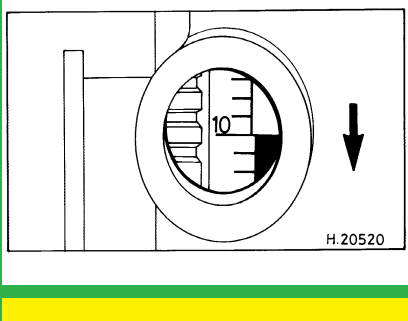
Notes and Illustrations



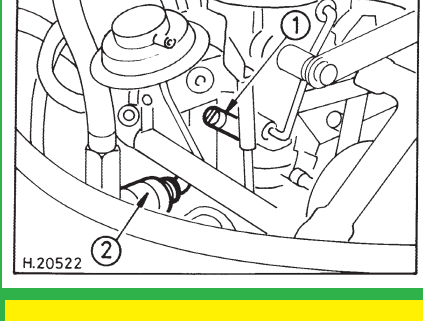
1: Idle speed 2: CO / Mixture



1298 cm³, 8V



1298 cm³



Aisan 2V