

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system 121, 1.1 1988 to 1991

Type		B1. SOHC
Capacity (cm <sup>3</sup> ) / number of cylinders		1138 / 4
Compression ratio / pressure	bar	9.4 / 9.6 to 13.7
Oil pressure	bar	[3.5 to 4.4]
Oil temperature	°C	-
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80.5 to 83.5
Radiator cap pressure	bar	0.76 to 1.04

### Fuel system 121, 1.1 1988 to 1991

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	1100 to 1200
CO @ idle speed [3000 rpm] - see page VI	%	1.5 to 2.0 (UL: 0.7 to 1.5)
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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		Aisan
Type / ref		28-32 2V downdraught
Main jet / needle		86, 129
Injection pressure	bar	-
Pump pressure	bar	0.28 to 0.35
Octane rating	RON	91[E 91 RON]

### Ignition system 121, 1.1 1988 to 1991

Type		Electronic
Ignition coil		-
Primary resistance	ohms	1.0 to 1.3. 89 ▶: 0.77 to 0.95
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		Mitsubishi
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	4±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0 to 2 @ 1400
	° Crankshaft @ rpm	10 to 14 @ 3000
	° Crankshaft @ rpm	16 to 20 @ 5000
Vacuum range check	mbar	159 to 535
Maximum vacuum advance	° Crankshaft	16 to 20
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.75 to 0.85

### Electrical system 121, 1.1 1988 to 1991

Battery	V / CC / RC	12 / 33Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 2500
Starter motor current / voltage - cranking	A / V	40 / 11.5 (no load)
- locked	A / V	-

### Running gear 121, 1.1 1988 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	145x12
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	-

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0±3.0
Camber		+40'±30'
Castor		+1°35'±45'
King pin inclination		+14°10'

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0±3.0
Camber		-15'±45'

### Torque wrench settings 121, 1.1 1988 to 1991

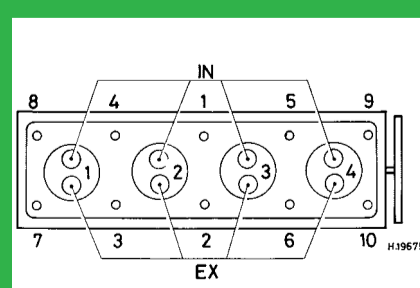
Cylinder head - stage 1	Nm	76 to 81
- stage 2	Nm	-
Cylinder head - stage 3	Nm	-
- stage 4	Nm	-
Big-end bearings	Nm	29 to 34
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	157 to 235
Rear hubs	Nm	-
Wheel nuts / bolts	Nm	88 to 118
Spark plugs	Nm	15 to 23

### Capacities 121, 1.1 1988 to 1991

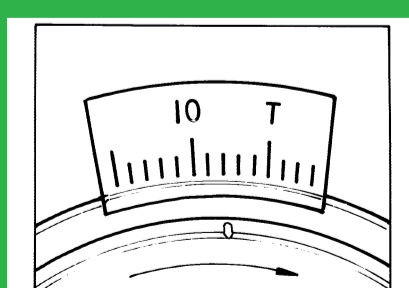
Engine oil & filter	litres	3.3. 89 ▶: 3.2
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	-
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	38

### Notes and Illustrations

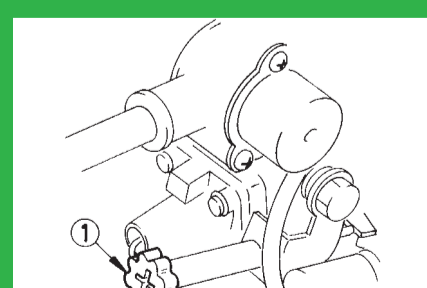
1: Idle speed 2: CO / Mixture



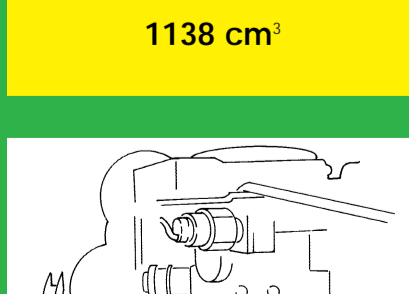
1138 cm<sup>3</sup>, 8V



1138 cm<sup>3</sup>



Aisan 28-32



Aisan 28-32