

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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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 system Sumo 1.2 1988 to 1995

Type		SOHC
Capacity (cm ³) / number of cylinders		1189 / 3
Compression ratio / pressure	bar	9.1 / _
Oil pressure	bar	[2.1 to 3.2]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.13 to 0.17
- exhaust	mm	0.23 to 0.27
Firing order		1-3-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	84 to 87
Radiator cap pressure	bar	0.74 to 1.03

Fuel system Sumo 1.2 1988 to 1995

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Hitachi
Type / ref		1V
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	0.09 to 0.14
Octane rating	RON	90[E 91 RON]

Ignition system Sumo 1.2 1988 to 1995

Type		Electronic
Ignition coil		Hitachi
Primary resistance	ohms	0.84 to 1.02
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		NGK/Champion
Type		BPR6ES-11 / RN9YC
Electrode gap	mm	1.00 to 1.10

Electrical system Sumo 1.2 1988 to 1995

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		_
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear Sumo 1.2 1988 to 1995

Brakes -		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	_
Tyres		
Saloon	Size	_
Estate / Van	Size	155x12
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.2 / 2.2
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±3.0
Camber		+1°30'
Castor		+8°45'
King pin inclination		+13°10'. RWD: +13°40'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±3.0
Camber		+1°30'

Torque wrench settings Sumo 1.2 1988 to 1995

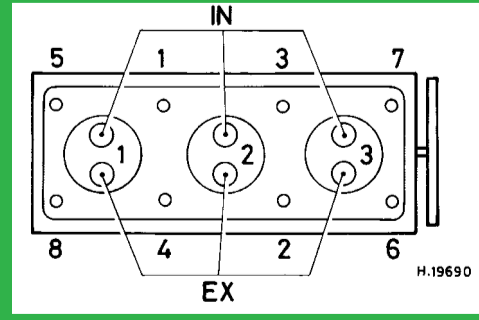
Cylinder head - stage 1	Nm	65 to 73 in 3 steps
- stage 2	Nm	_
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	39 to 45
Main bearings	Nm	41 to 47
Clutch cover	Nm	9 to 11
Flywheel [driveplate]	Nm	88 to 96
Front hubs	Nm	177
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	18 to 24

Capacities Sumo 1.2 1988 to 1995

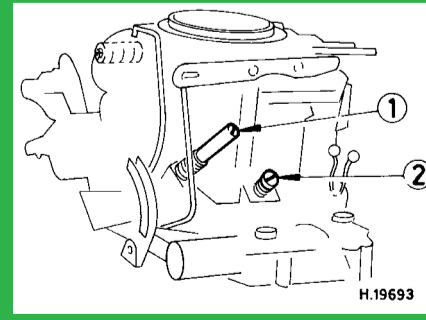
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	_
Final drive	litres	4x4 front: 0.8
Cooling system	litres	6.5
Fuel tank	litres	40

Notes and Illustrations

1: Idle speed 2: CO / Mixture



1189 cm³



Hitachi 1V