

Engine & Cooling

Fuel

Ignition

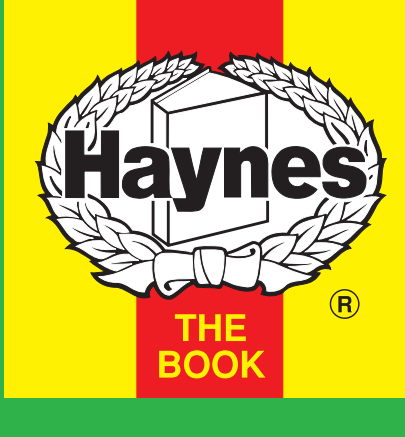
Electrical

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemSumo 1.21988 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 systemSumo 1.21988 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
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ 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 systemSumo 1.21988 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 systemSumo 1.21988 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 gearSumo 1.21988 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 settingsSumo 1.21988 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

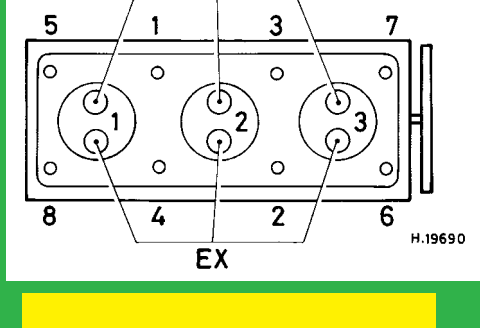
CapacitiesSumo 1.21988 to 1995

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

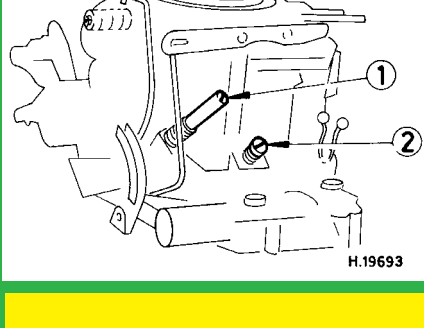
Notes and Illustrations



1: Idle speed 2: CO / Mixture



1189 cm³



Hitachi 1V