

Engine & Cooling

Fuel

Ignition

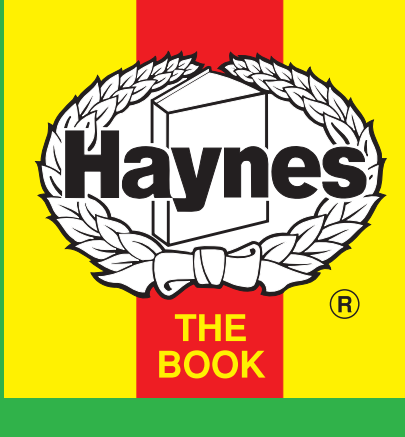
Electrical

Running gear

Torque settings

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Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemE20001994 to 1997

Type		FE SOHC 12V 70kW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	8.6 / ≥8.75
Oil pressure	bar	[3.0 to 4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		—
Thermostat opening temperature	°C	86.5 to 89.5
Radiator cap pressure	bar	0.75 to 1.0

Fuel systemE20001994 to 1997

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Mazda
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	2.6 to 3.1
Pump pressure	bar	4.5 to 6.0
Octane rating	RON	95[U]

Ignition systemE20001994 to 1997

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.81 to 0.99
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	6± BTDC @ 800±50 WSM
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/Nippon Denso
Type		BKR5E-11 / K16PRU-11
Electrode gap	mm	1.0 to 1.1

Electrical systemE20001994 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.7±0.3 / 65 / —
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearE20001994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.0 / 4.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±3.0
Camber		0°±3°
Castor		3°58' +1° -40'
King pin inclination		9°22'

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

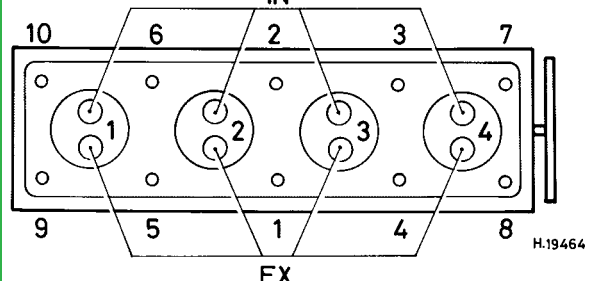
Torque wrench settingsE20001994 to 1997

Cylinder head - stage 1	Nm	80 to 86
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	50 to 55
Main bearings	Nm	82 to 88
Clutch cover	Nm	22 to 23
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	88 to 117
Spark plugs	Nm	15 to 23

CapacitiesE20001994 to 1997

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	7.0
Fuel tank	litres	62

Notes and Illustrations



1998 cm³