

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system323, 1.6i CAT1991 to 1994

Type		B6. SOHC 16V 66kW
Capacity (cm³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.2 / ≥7.8
Oil pressure	bar	[3.0 to 4.0]
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	86.5 to 89.5
Radiator cap pressure	bar	0.76 to 1.04

Fuel system323, 1.6i CAT1991 to 1994

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Mazda
Type / ref		EGI EFI
Main jet / needle		—
Injection pressure	bar	2.6 to 3.2
Pump pressure	bar	4.4 to 5.9
Octane rating	RON	91[U]

Ignition system323, 1.6i CAT1991 to 1994

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.81 to 0.99
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ 750±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° 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
Type		BKR5E-11
Electrode gap	mm	1.00 to 1.10

Electrical system323, 1.6i CAT1991 to 1994

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 65 / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear323, 1.6i CAT1991 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	155x13: 175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		-5'±45'
Castor		+2°5'±45'
King pin inclination		+12°25'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		-20'±45'

Torque wrench settings323, 1.6i CAT1991 to 1994

Cylinder head - stage 1	Nm	40
- stage 2	Nm	76 to 81
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 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	235 to 319 N
Rear hubs	Nm	177 to 235
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	15 to 23

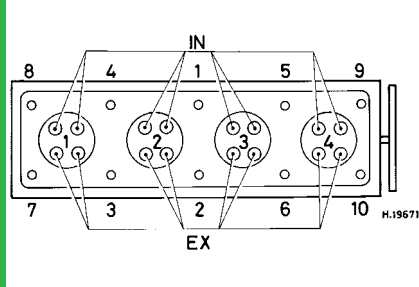
Capacities323, 1.6i CAT1991 to 1994

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	5.8
Final drive	litres	WT
Cooling system	litres	5.0 [AT: 6.0]
Fuel tank	litres	50. Saloon,F: 55

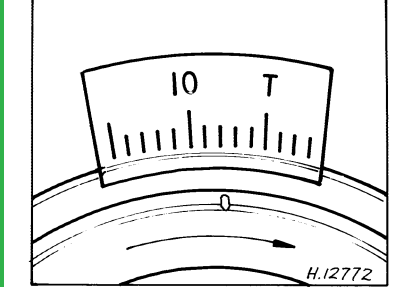
Notes and Illustrations



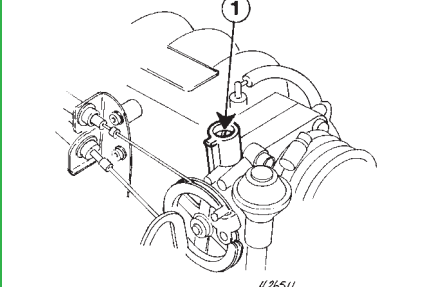
1: Idle speed2: CO / Mixture



1598 cm³, 16V



1598 cm³, 16V



EGI EFI