

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMX-5 1.8i1995 to 1997

Type		BP DOHC 16V 97kW
Capacity (cm³) / number of cylinders		1840 / 4
Compression ratio / pressure	bar	9.0 / ≥9.0
Oil pressure	bar	1.0 to 2.0 [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		TBE
Thermostat opening temperature	°C	86.5 to 89.5
Radiator cap pressure	bar	0.75 to 1.05

Fuel systemMX-5 1.8i1995 to 1997

Idle speed - manual [auto]	rpm	850±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	2.7 to 3.2
Pump pressure	bar	4.5 to 6.0
Octane rating	RON	95[U]

Ignition systemMX-5 1.8i1995 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	—
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	10±1 BTDC @ 850±50
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		BKR5/6/7E-11 / K16/20/22PRU-11
Electrode gap	mm	1.0 to 1.1

Electrical systemMX-5 1.8i1995 to 1997

Battery	V / CC / RC	12 / 32Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.9 / 65A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMX-5 1.8i1995 to 1997

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±3.0
Camber		24'±45'
Castor		4°26'±45'
King pin inclination		11°20'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±3.0
Camber		-43'±30'

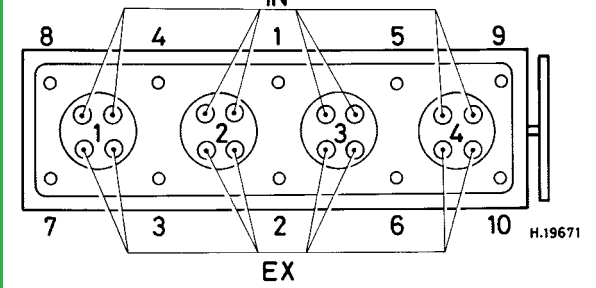
Torque wrench settingsMX-5 1.8i1995 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	76 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	48 to 50
Main bearings	Nm	54 to 58
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	97 to 102
Front hubs	Nm	WSM
Rear hubs	Nm	216 to 294
Wheel nuts / bolts	Nm	89 to 117
Spark plugs	Nm	15 to 23

CapacitiesMX-5 1.8i1995 to 1997

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	1.0
Cooling system	litres	6.0
Fuel tank	litres	48

Notes and Illustrations



1840 cm³, 16V