

Engine & Cooling

Fuel

Ignition

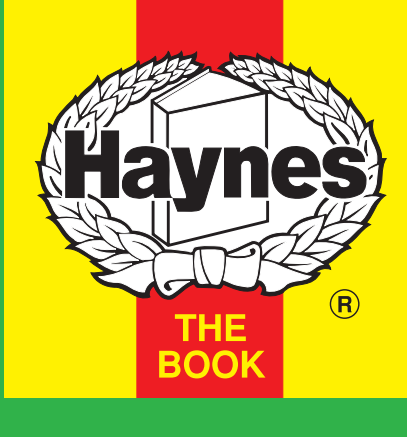
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemMX-5, 1.6i1990 to 1997

Type		B6-ZE DOHC 16V 85kW
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.4 / ≥9.3. 94►: 9.0 / ≥9.3
Oil pressure	bar	1.0 to 2.0 [2.9 to 3.9]
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 to 89
Radiator cap pressure	bar	0.74 to 1.03

Fuel systemMX-5, 1.6i1990 to 1997

Idle speed - manual [auto]	rpm	850±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		Weber
Type / ref		L-Jetronic
Main jet / needle		—
Injection pressure	bar	2.6 to 3.1
Pump pressure	bar	4.4 to 5.9
Octane rating	RON	91[U]

Ignition systemMX-5, 1.6i1990 to 1997

Type		Distributorless
Ignition coil		—
Primary resistance	ohms	0.78 to 0.94
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ 850
V = Vacuum NV = No Vacuum		—
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/Champion
Type		BKR5E-11 / RC9YCC
Electrode gap	mm	1.00 to 1.10

Electrical systemMX-5, 1.6i1990 to 1997

Battery	V / CC / RC	12 / 32Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMX-5, 1.6i1990 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°30'±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, 1.6i1990 to 1997

Cylinder head - stage 1	Nm	30
- stage 2	Nm	50
Cylinder head - stage 3	Nm	76 to 81
- stage 4	Nm	—
Big-end bearings	Nm	50 to 54
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	167 to 216
Rear hubs	Nm	216 to 294
Wheel nuts / bolts	Nm	88 to 118
Spark plugs	Nm	15 to 23

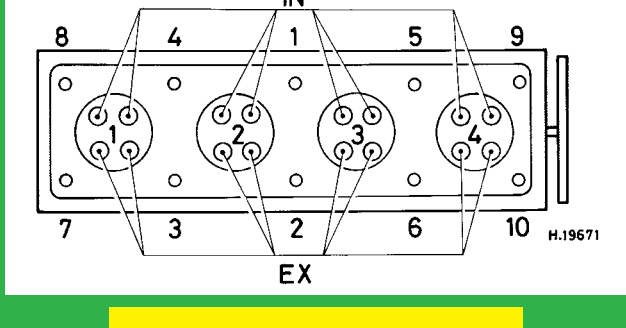
CapacitiesMX-5, 1.6i1990 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	0.65. 94►: 1.00
Cooling system	litres	6.0
Fuel tank	litres	45

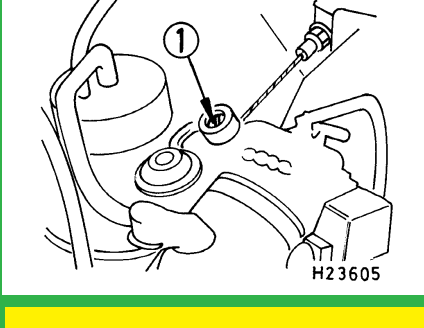
Notes and Illustrations



1: Idle speed 2: CO / Mixture



1597 cm³



L-Jetronic