

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system323 Turbo 4x41986 to 1989

Type		B6. DOHC Turbo
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	7.9 / ≥7.5
Oil pressure	bar	[3.5 to 4.4]
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	82±1.5
Radiator cap pressure	bar	0.76 to 1.04

Fuel system323 Turbo 4x41986 to 1989

Idle speed - manual [auto]	rpm	800 to 900
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 electronic injection
Main jet / needle		—
Injection pressure	bar	1.7 to 2.2
Pump pressure	bar	4.4 to 5.9
Octane rating	RON	96[E 98 RON]

Ignition system323 Turbo 4x41986 to 1989

Type		Electronic
Ignition coil		—
Primary resistance	ohms	3.1
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	12±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	18 @ 3500
	° Crankshaft @ rpm	25 @ 5800
Vacuum range check	mbar	80 to 600
Maximum vacuum advance	° Crankshaft	18
Spark plugs		NGK/Champion
Type		BCPR6E / RC7YC
Electrode gap	mm	0.70 to 0.80

Electrical system323 Turbo 4x41986 to 1989

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 2500
Starter motor current / voltage - cranking	A / V	60 / 11.5 (no load)
- locked	A / V	—

Running gear323 Turbo 4x41986 to 1989

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		+1°4'±30'
Castor		+1°48'±45'
King pin inclination		+13°

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

Torque wrench settings323 Turbo 4x41986 to 1989

Cylinder head - stage 1	Nm	40
- stage 2	Nm	76 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	65 to 69
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	157 to 236
Rear hubs	Nm	157 to 236
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	15 to 23

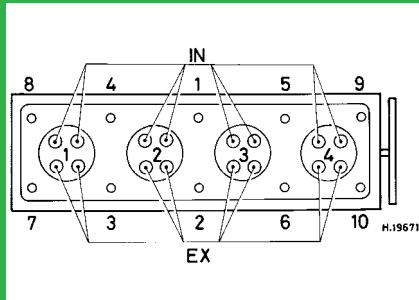
Capacities323 Turbo 4x41986 to 1989

Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	3.6 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Ft. 0.5. Rear 0.7
Cooling system	litres	6.0
Fuel tank	litres	50

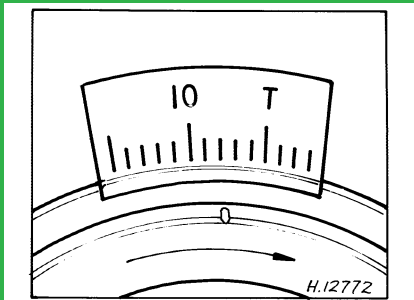
Notes and Illustrations

¹Transfer box: 0.5

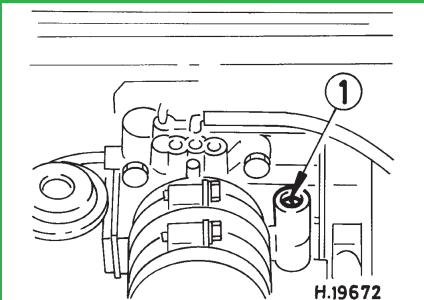
1: Idle speed 2: CO / Mixture



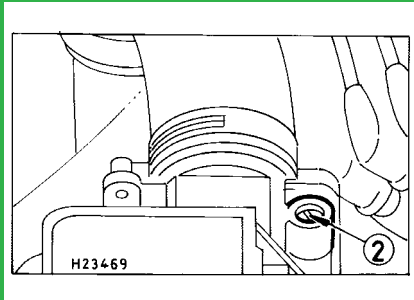
1597 cm³, 16V



1597 cm³, 16V



Fuel injection, Turbo



Fuel injection, Turbo