

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemToledo 1.6i1994 to 1997

Type		1F SOHC 52kW
Capacity (cm ³) / number of cylinders		1595 / 4
Compression ratio / pressure	bar	9.0 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel systemToledo 1.6i1994 to 1997

Idle speed - manual [auto]	rpm	700 to 1000 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤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		Bosch
Type / ref		Mono-Motronic
Main jet / needle		—
Injection pressure	bar	0.50
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemToledo 1.6i1994 to 1997

Type		Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 700 to 1000 N/A
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/Bosch
Type		BUR5ET / W8LTCR
Electrode gap	mm	0.70 to 0.90 / 0.90 to 1.10

Electrical systemToledo 1.6i1994 to 1997

Battery	V / CC / RC	12 / 175 / 36Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / 65, 90 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearToledo 1.6i1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	175/70x13: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		-30'±20'
Castor		+1°30'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	20'±10'
Camber		-1°30'±10'

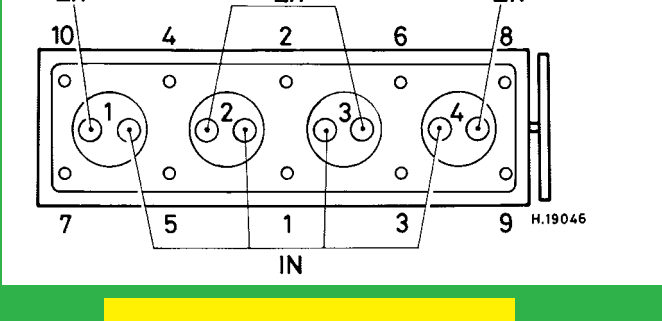
Torque wrench settingsToledo 1.6i1994 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
- stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	260
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

CapacitiesToledo 1.6i1994 to 1997

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.2
Fuel tank	litres	55

Notes and Illustrations



1595 cm³