

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemToledo 1.61991 to 1992

Type	EZ SOHC 54kW	
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 1.61991 to 1992

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	1700±50
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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	Solex/Pierburg	
Type / ref	2E3	
Main jet / needle	107.5, 125	
Injection pressure	bar	—
Pump pressure	bar	0.35 to 0.40
Octane rating	RON	91[E 91 RON]

Ignition systemToledo 1.61991 to 1992

Type	Electronic	
Ignition coil	Bosch	
Primary resistance	ohms	0.5 to 0.8
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	16±1 BTDC @ idle
V = Vacuum NV = No Vacuum	V	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 850 to 1200
	° Crankshaft @ rpm	4 to 8 @ 1600
	° Crankshaft @ rpm	27 to 31 @ 4500
Vacuum range check	mbar	61 to 322
Maximum vacuum advance	° Crankshaft	13 to 15
Spark plugs	Bosch/Champion	
Type	W8DTC / N9BYC4	
Electrode gap	mm	0.90 to 1.10

Electrical systemToledo 1.61991 to 1992

Battery	V / CC / RC	12 / 175 / 36Ah
Alternator voltage / full load current / engine rpm	14.0 / 65 or 90 / 3500	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearToledo 1.61991 to 1992

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	5.0 with backing

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	-42'±20'	
Castor	+1°36'±30'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+7'±20'
Camber	-1°35'±10'	

Torque wrench settingsToledo 1.61991 to 1992

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	—
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

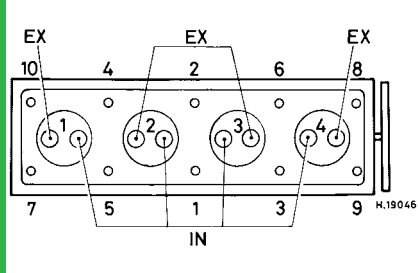
CapacitiesToledo 1.61991 to 1992

Engine oil & filter	litres	4.0
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

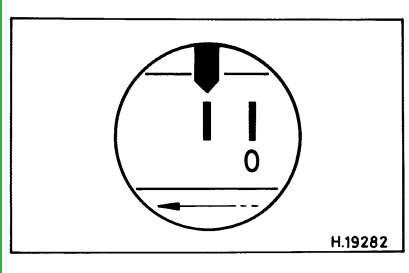
Notes and Illustrations



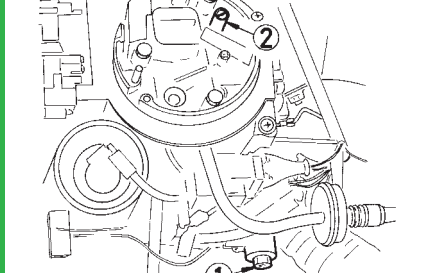
1: Idle speed 2: CO / Mixture



1595 cm³



1595 cm³



Solex / Pierburg 2E3