

Engine & Cooling

Fuel

Ignition

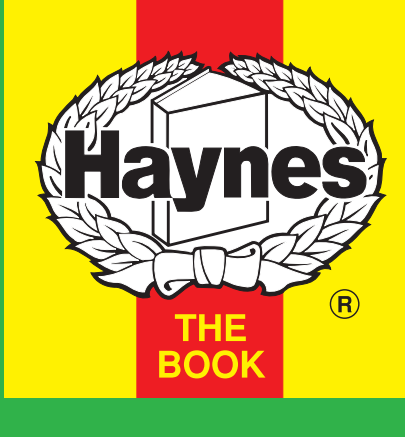
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemY10 1.3ie CAT1992 to 1994

Type		146 A.046 SOHC 53kW US83
Capacity (cm³) / number of cylinders		1297 / 4
Compression ratio / pressure	bar	9.2±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.98

Fuel systemY10 1.3ie CAT1992 to 1994

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		L3.2-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemY10 1.3ie CAT1992 to 1994

Type		Digiplex 2
Ignition coil		Marelli BAE 504D
Primary resistance	ohms	0.41 to 0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	_
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		Bosch
Type		WR7DC
Electrode gap	mm	0.60 to 0.70

Electrical systemY10 1.3ie CAT1992 to 1994

Battery	V / CC / RC	12 / 185 / 45Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.6 / 65 / 3500
Starter motor current / voltage - cranking	A / V	170 / 9.5
- locked	A / V	330 / 7.1

Running gearY10 1.3ie CAT1992 to 1994

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+15'±30' N/A
Castor		+1°40'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		0±30' N/A

Torque wrench settingsY10 1.3ie CAT1992 to 1994

Cylinder head - stage 1	Nm	20
- stage 2	Nm	65
Cylinder head - stage 3	Nm	Bolts: + 90°. Nuts: + 40°
- stage 4	Nm	Bolts: + 90°. Nuts: + 40°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

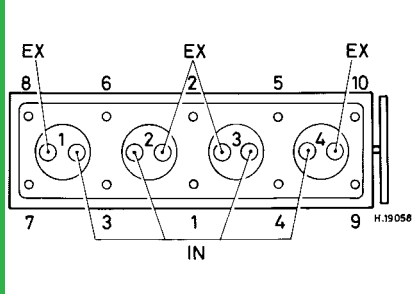
CapacitiesY10 1.3ie CAT1992 to 1994

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	1.7
Automatic transmission - refill	litres	1.8
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	46

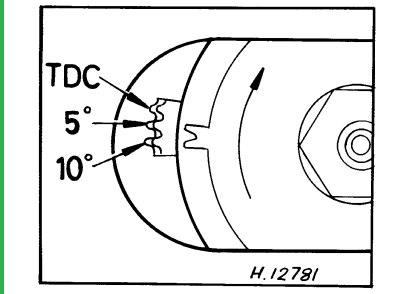
Notes and Illustrations



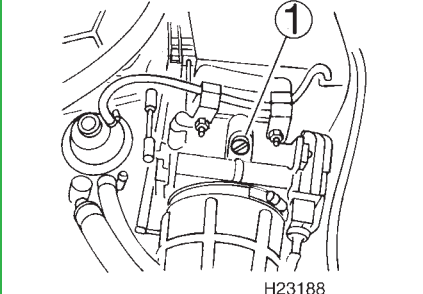
1: Idle speed 2: CO / Mixture



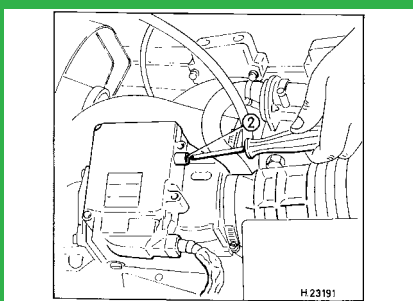
1297 cm³



1297 cm³



L3.2-Jetronic



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