

[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 system Uno Turbo ie 1988 to 1990

Type		146 A2.000 OHC
Capacity (cm <sup>3</sup> ) / number of cylinders		1301 / 4
Compression ratio / pressure	bar	7.7 / _
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	78 to 82
Radiator cap pressure	bar	0.78

## Fuel system Uno Turbo ie 1988 to 1990

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE2-Jetronic + Turbo
Main jet / needle		_
Injection pressure	bar	3.0±0.06
Pump pressure	bar	≤6.0
Octane rating	RON	97[E 95 RON]

## Ignition system Uno Turbo ie 1988 to 1990

Type		Microplex
Ignition coil		Marelli BAE 209 BK
Primary resistance	ohms	0.31 to 0.38
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±1.5 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	≤34±1.5 BTDC
	° 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/Champion
Type		FR6DTC / RC7BYC
Electrode gap	mm	0.60 to 0.80

## Electrical system Uno Turbo ie 1988 to 1990

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.9 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	190 to 220 / 9.8 to 10.4
- locked	A / V	420 / 8 to 9

## Running gear Uno Turbo ie 1988 to 1990

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	175/60x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		+25'±30'
Castor		+2°15'±20'
King pin inclination		_

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		0

## Torque wrench settings Uno Turbo ie 1988 to 1990

Cylinder head - stage 1	Nm	20 <sup>1</sup>
- stage 2	Nm	40 <sup>1</sup>
Cylinder head - stage 3	Nm	+ 90 <sup>°1</sup>
- stage 4	Nm	+ 90 <sup>°1</sup>
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

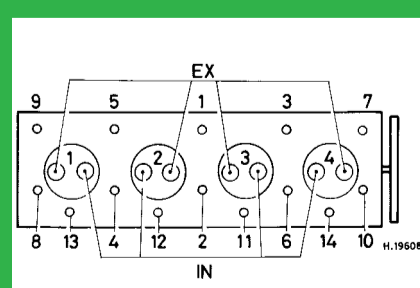
## Capacities Uno Turbo ie 1988 to 1990

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.9
Fuel tank	litres	50

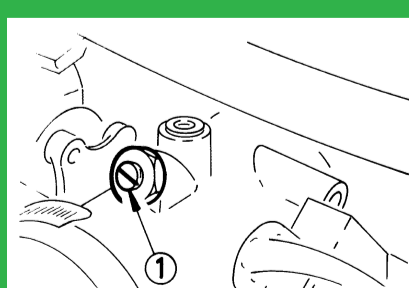
## Notes and Illustrations

<sup>1</sup>Bolts 11 to 14 : 30

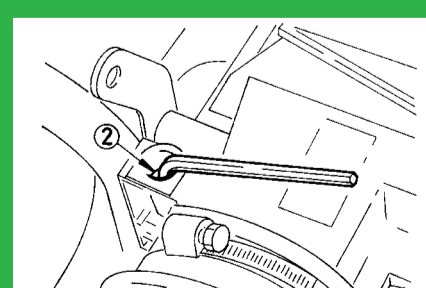
1: Idle speed    2: CO / Mixture



1301 cm<sup>3</sup>, Turbo



LE2-Jetronic



LE2-Jetronic