

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system Uno Turbo ie 1.3 CAT 1989 to 1990

Type		146 A2.246 OHC US83
Capacity (cm ³) / 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 1.3 CAT 1989 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 ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LU2-Jetronic + Turbo
Main jet / needle		_
Injection pressure	bar	3.0±0.06
Pump pressure	bar	≤6.0
Octane rating	RON	95[U]

Ignition system Uno Turbo ie 1.3 CAT 1989 to 1990

Type		Microplex Static
Ignition coil		Marelli BAE504BK
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 / RC7BYC4
Electrode gap	mm	0.60 to 0.80 ¹

Electrical system Uno Turbo ie 1.3 CAT 1989 to 1990

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.5 / 65 / 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 1.3 CAT 1989 to 1990

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

Tyres		
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 1.3 CAT 1989 to 1990

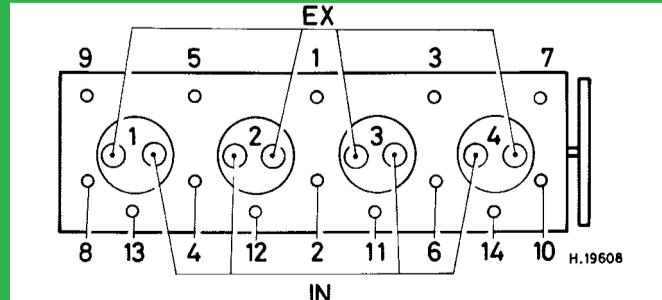
Cylinder head - stage 1	Nm	20 ²
- stage 2	Nm	40 ²
Cylinder head - stage 3	Nm	+ 90 ²²
- stage 4	Nm	+ 90 ²²
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities Uno Turbo ie 1.3 CAT 1989 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	46

Notes and Illustrations

¹RC7BYC4: 0.80 to 1.00
²Bolts 11 to 14 : 30



1301 cm³Turbo