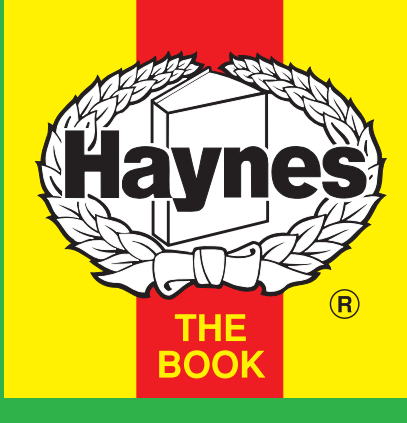


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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
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Engine and cooling systemUno 60 (1116)1991

Type		146 A6.000 OHC. 43kW
Capacity (cm³) / number of cylinders		1116 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.98

Fuel systemUno 60 (1116)1991

Idle speed - manual [auto]	rpm	750 to 850
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
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		30-32 DMTE 28/250
Main jet / needle		87, 95
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[E 95 RON]

Ignition systemUno 60 (1116)1991

Type		Electronic
Ignition coil		Marelli BAE 506A
Primary resistance	ohms	0.756 to 0.924
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		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 750 to 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1300±200
	° Crankshaft @ rpm	10±2 @ 2600±200
	° Crankshaft @ rpm	20±2 @ 5250±200
Vacuum range check	mbar	200 to 467
Maximum vacuum advance	° Crankshaft	15±2
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemUno 60 (1116)1991

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.4 / 45 / 3500
Starter motor current / voltage - cranking	A / V	190 to 200 / 9.8 to 10.4
- locked	A / V	380 to 440 / 7.6 to 8.5

Running gearUno 60 (1116)1991

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

Tyres		
Saloon	Size	135x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber		-25'±30' N/A
Castor		+2°15'±30' N/A
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

Torque wrench settingsUno 60 (1116)1991

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	83
Front hubs	Nm	265
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

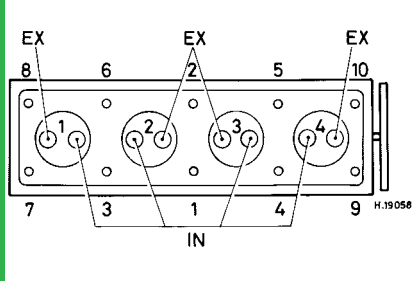
CapacitiesUno 60 (1116)1991

Engine oil & filter	litres	4.4
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	42

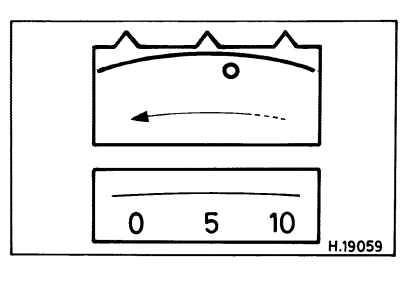
Notes and Illustrations



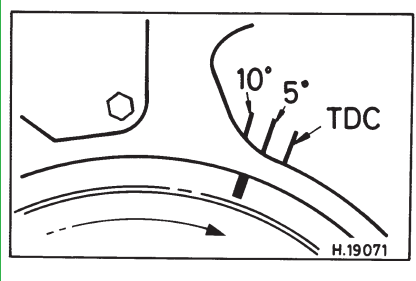
1: Idle speed 2: CO / Mixture



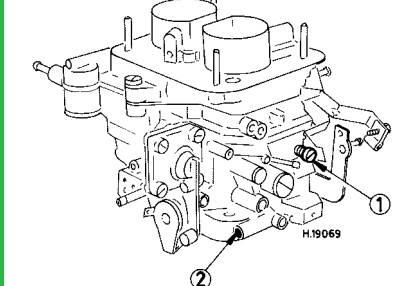
1116 cm³



1116 cm³



1116 cm³, alternative



Weber DMTE