

Engine & Cooling

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Automotive
Technical
DATA BOOK

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HELP

Engine and cooling systemUno 45 (999)1985 to 1988

Type		156 A2.000 (FIRE)
Capacity (cm ³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.8 / _
Oil pressure	bar	[2.9 to 3.9]
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	85 to 89
Radiator cap pressure	bar	0.98

Fuel systemUno 45 (999)1985 to 1988

Idle speed - manual [auto]	rpm	750 to 800
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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		32 TLF/4
Main jet / needle		105
Injection pressure	bar	_
Pump pressure	bar	≥0.20
Octane rating	RON	97[R]

Ignition systemUno 45 (999)1985 to 1988

Type		Electronic
Ignition coil		Marelli BAE 506 A
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	2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	17.5 to 21.5 @ 3000
	° Crankshaft @ rpm	30 to 32 @ 4300
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		FR7DC / RC9YC
Electrode gap	mm	0.60 to 0.70

Electrical systemUno 45 (999)1985 to 1988

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	180 / 9.1
- locked	A / V	320 / 7

Running gearUno 45 (999)1985 to 1988

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±2.0
Camber		+25'±30'
Castor		+2°±15'
King pin inclination		_

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

Torque wrench settingsUno 45 (999)1985 to 1988

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	44
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

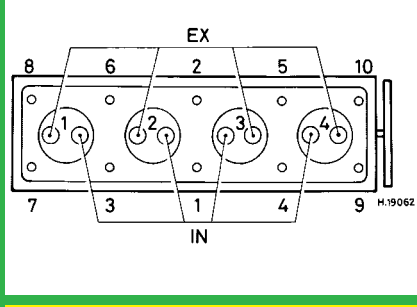
CapacitiesUno 45 (999)1985 to 1988

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.6
Fuel tank	litres	42

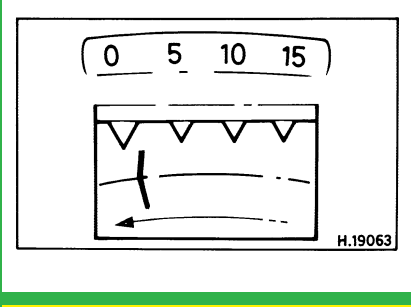
Notes and Illustrations



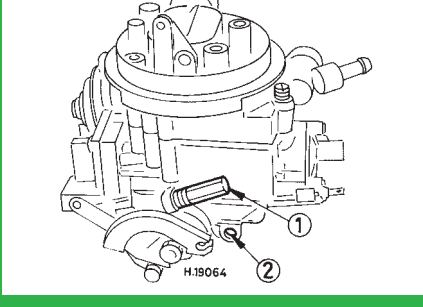
1: Idle speed 2: CO / Mixture



999 cm³



999 cm³



Weber TLF