

Engine & Cooling

Fuel

Ignition

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Automotive Technical
DATA BOOK

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Engine and cooling systemUno (994)1990 to 1992

Type		146 B4.000 (FIRE) OHC 32kW
Capacity (cm ³) / number of cylinders		994 / 4
Compression ratio / pressure	bar	9.35±0.15 / _
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	80 to 84
Radiator cap pressure	bar	0.98

Fuel systemUno (994)1990 to 1992

Idle speed - manual [auto]	rpm	750 to 800
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
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 ICEV 62/250
Main jet / needle		110
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	95[E 95 RON]

Ignition systemUno (994)1990 to 1992

Type		Electronic
Ignition coil		Marelli BAE 506 D
Primary resistance	ohms	0.666 to 0.814
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli/Ducellier
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 800
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1200±50
	° Crankshaft @ rpm	15±2 @ 3000±50
	° Crankshaft @ rpm	22±2 @ 4200±50
Vacuum range check	mbar	133 to 400
Maximum vacuum advance	° Crankshaft	14±2
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemUno (994)1990 to 1992

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	170 / 9.5
- locked	A / V	330 / 7.1

Running gearUno (994)1990 to 1992

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 [°]	+1.0±1.0
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 (994)1990 to 1992

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

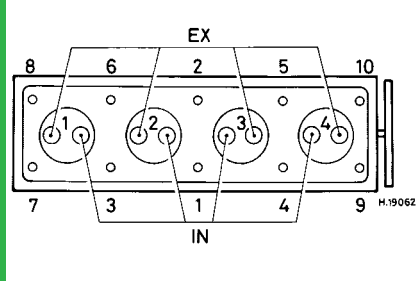
CapacitiesUno (994)1990 to 1992

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

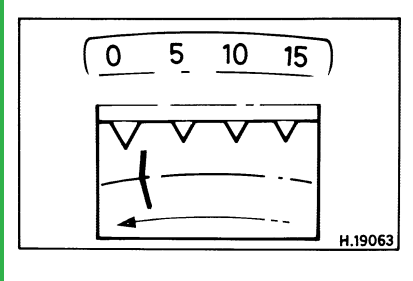
Notes and Illustrations



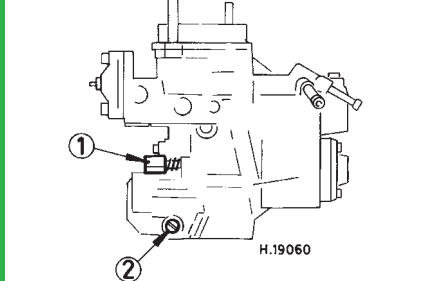
1: Idle speed 2: CO / Mixture



994 cm³



994 cm³



Weber 32 ICEV 62/250