

Engine & Cooling

Fuel

Ignition

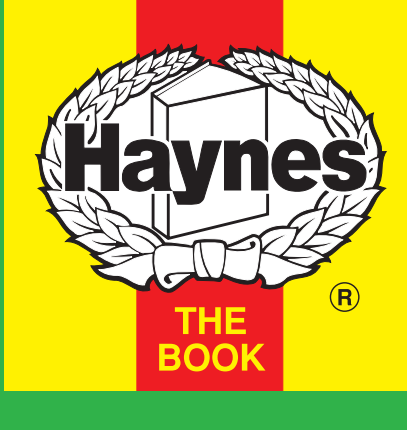
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Uno 45 & Van (903)

1990 to 1994

Type		146 A. 048 OHV. 33kW
Capacity (cm³) / number of cylinders		903 / 4
Compression ratio / pressure	bar	9.0±0.1 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.15±0.05
Valve clearance - exhaust	mm	0.20±0.05
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.98

Fuel system

Uno 45 & Van (903)

1990 to 1994

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 ICEV 61/250
Main jet / needle		110
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[E 95 RON]

Ignition system

Uno 45 & Van (903)

1990 to 1994

Type		Contact breaker - CIS
Ignition coil		Various
Primary resistance	ohms	2.6 to 3.3 (typical)
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier/Marelli
Points gap (air gap)	mm	D:0.37 to 0.43¹
Dwell angle	° (%)	D: 55±3. M: 53±2
Condenser capacity	µF	D: 0.20 to 0.25²
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 750 to 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 900±200
	° Crankshaft @ rpm	15±2 @ 2200±200
	° Crankshaft @ rpm	32±2 @ 4750±200
Vacuum range check	mbar	133 to 333
Maximum vacuum advance	° Crankshaft	12±2
Spark plugs		Bosch/Champion
Type		FR7DC / RC9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Uno 45 & Van (903)

1990 to 1994

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 45 / 3000
Starter motor current / voltage - cranking	A / V	170 / 9.5
- locked	A / V	330 / 7.1

Running gear

Uno 45 & Van (903)

1990 to 1994

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

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

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 settings

Uno 45 & Van (903)

1990 to 1994

Cylinder head - stage 1	Nm	30³
- stage 2	Nm	60³
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	70
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

Capacities

Uno 45 & Van (903)

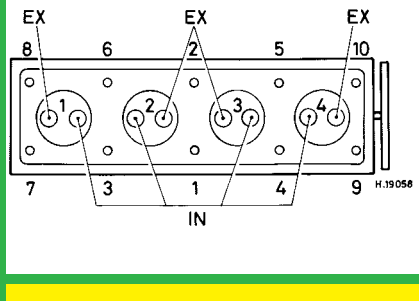
1990 to 1994

Engine oil & filter	litres	3.9
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

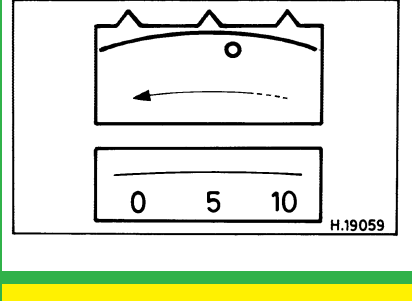
Notes and Illustrations

- ¹M: 0.42 to 0.48
- ²M: 0.22 to 0.27
- ³Engine no. 8 581 470 ►: 20, then 30, then +90° + 90°

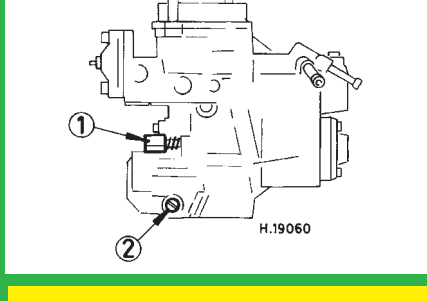
1: Idle speed 2: CO / Mixture



903 cm³



903 cm³



Weber 32 ICEV 61/250