

Engine & Cooling

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Automotive
Technical
DATA BOOK

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Engine and cooling system

Uno 45 (900)1983 to 1990

Type		146 A.000 or 146 A.048 OHV
Capacity (cm³) / number of cylinders		903 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.78

Fuel system

Uno 45 (900)1983 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
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex/Weber
Type / ref		S: C32 DISA. W: 32 ICEV
Main jet / needle		S: 120. W: 112 or 110
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[E 95 RON]

Ignition system

Uno 45 (900)1983 to 1990

Type		Contact breaker - CIS
Ignition coil		Marelli, Bosch, Martinetti
Primary resistance	ohms	2.6 to 3.3
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier/Marelli
Points gap (air gap)	mm	0.37 to 0.43
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.20 to 0.25
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 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	18 to 22 @ 3000
	° Crankshaft @ rpm	30 to 34 @ 4750
Vacuum range check	mbar	107 to 333
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		WR7DCR / RN9YC
Electrode gap	mm	0.60 to 0.70

Electrical system

Uno 45 (900)1983 to 1990

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	155 to 170 / 9.4 to 9.6
- locked	A / V	320 / 7

Running gear

Uno 45 (900)1983 to 1990

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'
Castor		+2°±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		0

Torque wrench settings

Uno 45 (900)1983 to 1990

Cylinder head - stage 1	Nm	30
- stage 2	Nm	59
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	69
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

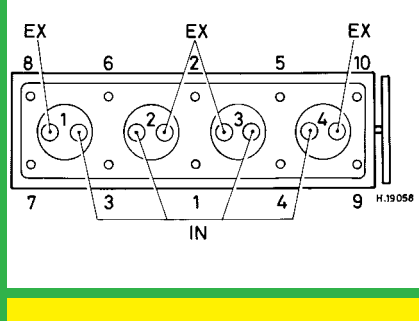
Uno 45 (900)1983 to 1990

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

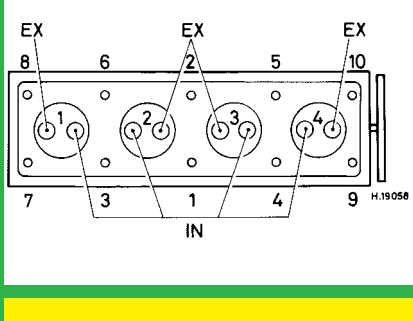
Notes and Illustrations



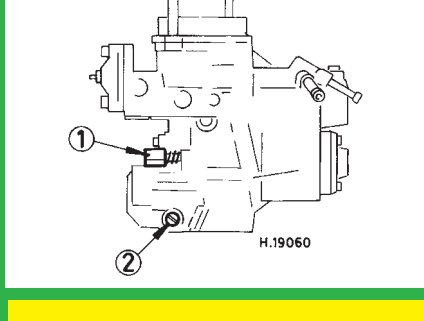
1: Idle speed2: CO / Mixture



903 cm³



903 cm³



Solex DISA / Weber 32
ICEV