

Engine & Cooling

Fuel

Ignition

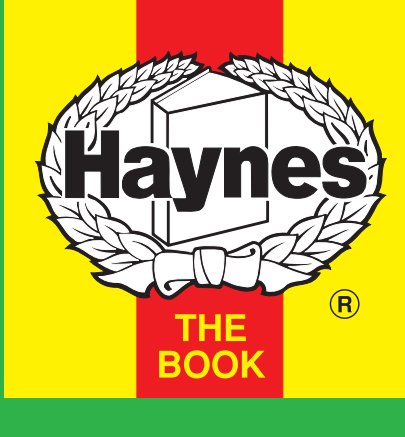
Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

309, 1.9 SPI CAT

1988 to 1993

Type		XU9M (DDZ) (80kW)
Capacity (cm³) / number of cylinders		1905 / 4
Compression ratio / pressure	bar	—
Oil pressure	bar	1.4 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system

309, 1.9 SPI CAT

1988 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Siemens Bendix
Type / ref		Fenix 1B
Main jet / needle		—
Injection pressure	bar	0.70 to 0.90
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

309, 1.9 SPI CAT

1988 to 1993

Type		Fenix
Ignition coil		—
Primary resistance	ohms	0.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Eyquem/Champion
Type		FC52LS / C9YCX
Electrode gap	mm	0.80

Electrical system

309, 1.9 SPI CAT

1988 to 1993

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

309, 1.9 SPI CAT

1988 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	175/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+1.0±0.5 PW
Camber		-40'±30'
Castor		+2°10'±30'
King pin inclination		+10°40'±30'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+1.9±0.8 PW ¹
Camber		-50'±30'. 90 ►: -1°15'±30'

Torque wrench settings

309, 1.9 SPI CAT

1988 to 1993

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40 ²
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25 to 30

Capacities

309, 1.9 SPI CAT

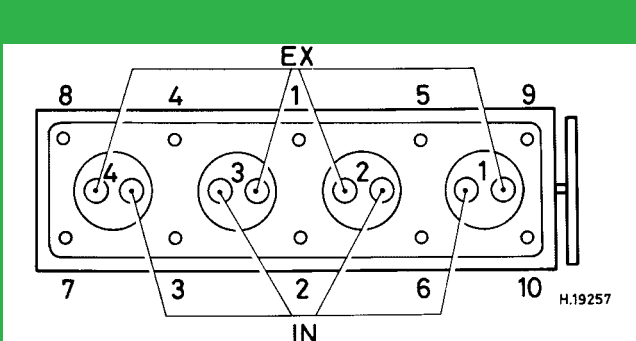
1988 to 1993

Engine oil & filter	litres	5.0. 93 MY: 4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	8.0
Fuel tank	litres	55

Notes and Illustrations

¹1990 ►: +2.5±1.3

²Slacken, then 20 + 70°



1905 cm³, 8V