

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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## Engine and cooling system 400, 2.0i CAT 1994 to 1997

Type	B20F-208/209 SOHC 8V. 80kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	1998 / 4	
Compression ratio / pressure	bar	9.8 / _
Oil pressure	bar	2.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
- exhaust	mm	0.40±0.05
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	92
Radiator cap pressure	bar	1.5

## Fuel system 400, 2.0i CAT 1994 to 1997

Idle speed - manual [auto]	rpm	730 to 830
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 1.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	_Siemens Bendix	
Type / ref	Fenix 3B. MPFI	
Main jet / needle	_	
Injection pressure	bar	2.85 to 2.90
Pump pressure	bar	3.00
Octane rating	RON	95[U]

## Ignition system 400, 2.0i CAT 1994 to 1997

Type	Fenix 3B	
Ignition coil	F3-A	
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Fenix	
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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	Bosch/Champion	
Type	WR9DS / RN9YC	
Electrode gap	mm	0.70 to 0.80

## Electrical system 400, 2.0i CAT 1994 to 1997

Battery	V / CC / RC	12 / 55, 60Ah
Alternator voltage / full load current / engine rpm	14.0 to 15.0 / 70 / 2500	
Starter motor current / voltage - cranking	A / V	200 to 275 / 9.0
- locked	A / V	390 to 480 / 6.0

## Running gear 400, 2.0i CAT 1994 to 1997

### Brakes -

Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

### Tyres

Saloon	Size	175/65x14: 185/60x14:185/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 1.9
- Estate / Van	bar	_

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber	-24'±30'. 480: -30'±30' N/A	
Castor	+4°6'±30'. 480: +3°20'±30' N/A	
King pin inclination	+13°15'±30' N/A	

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0 to 5.0
Camber	-1°	

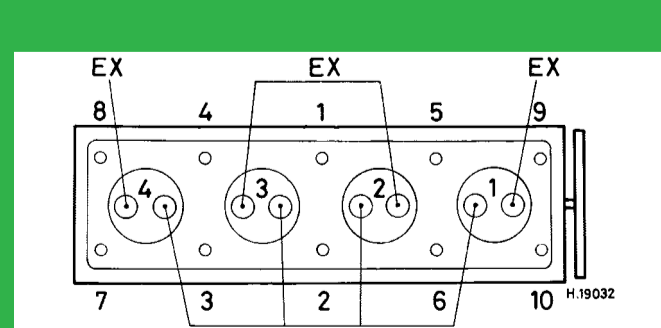
## Torque wrench settings 400, 2.0i CAT 1994 to 1997

Cylinder head - stage 1	Nm	30
- stage 2	Nm	70
- stage 3	Nm	Slacken, then 20
- stage 4	Nm	+ 123±2°
Big-end bearings	Nm	45
Main bearings	Nm	65
Clutch cover	Nm	22
Flywheel [driveplate]	Nm	53 N
Front hubs	Nm	230
Rear hubs	Nm	180
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

## Capacities 400, 2.0i CAT 1994 to 1997

Engine oil & filter	litres	5.7
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	3.3
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	60

## Notes and Illustrations

1998 cm<sup>3</sup>