

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

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HELP

## Engine and cooling system 400, 1.7i & CAT 1986 to 1990

Type	B18E(D)(S)-104/105. SOHC. 80kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	1721 / 4	
Compression ratio / pressure	bar	10.5 / ≥11.0
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, 1.7i & CAT 1986 to 1990

Idle speed - manual [auto]	rpm	800±50 A/C: 900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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	Bendix	
Type / ref	Fenix 1 or 3.2	
Main jet / needle	—	
Injection pressure	bar	2.3 to 2.4
Pump pressure	bar	2.5
Octane rating	RON	98[E 95 RON]

## Ignition system 400, 1.7i & CAT 1986 to 1990

Type	Fenix	
Ignition coil	Fenix S 100 620	
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	<sup>1</sup>
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	Not adjustable
	° 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	AC/Champion	
Type	CR41CXLS / RN7YC	
Electrode gap	mm	0.70 to 0.80

## Electrical system 400, 1.7i & CAT 1986 to 1990

Battery	V / CC / RC	12 / 55Ah
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, 1.7i & CAT 1986 to 1990

### Brakes -

Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

### Tyres

Saloon	Size	185/60x14
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	0±30' N/A <sup>2</sup>	
Castor	+4°16'±30' N/A <sup>3</sup>	
King pin inclination	+13°15'±30'	

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.5 to 4.5 <sup>4</sup>
Camber	-1°	

## Torque wrench settings 400, 1.7i & CAT 1986 to 1990

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, 1.7i & CAT 1986 to 1990

Engine oil & filter	litres	5.3
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	48

## Notes and Illustrations

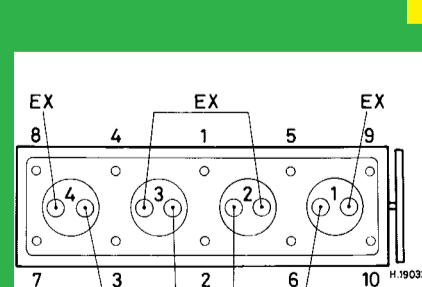
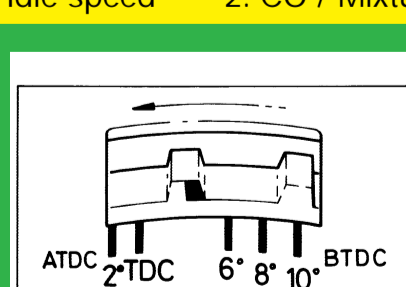
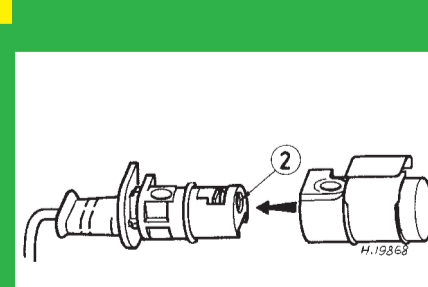
<sup>1</sup>Fenix 3.2 control unit: 8±3 BTDC @ 800. Fenix 1 units no. 40-43-05/06/43/44 with black sensor cable: 16±3 BTDC @ 800. Others with black cable: 12±3 BTDC @ 800. Units 40-43-05/06/43/44 with yellow sensor cable: 12±3 BTDC @ 800. Others with yellow cable: 8±3 BTDC @ 800

<sup>2</sup>Chassis no. 520382 ▶: -30'±30' N/A

<sup>3</sup>Chassis no. 520382 ▶: +3°20'±30' N/A

<sup>4</sup>Chassis no. 510750 ▶: +3.0 to 5.0

1: Idle speed 2: CO / Mixture

1721 cm<sup>3</sup>1721 cm<sup>3</sup>

Bendix Fenix 1 / 3.2