

Engine &amp; Cooling

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# Automotive Technical DATA BOOK

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## Engine and cooling system

440/460 1.6i 1991 to 1997

Type		B16F-109 SOHC 8V <sup>1</sup>
Capacity (cm <sup>3</sup> ) / number of cylinders		1596 / 4
Compression ratio / pressure	bar	10.0 / ≥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

440/460 1.6i 1991 to 1997

Idle speed - manual [auto]	rpm	900±50 N/A
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	%	≥14.5
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bendix
Type / ref		Fenix 3B MPI
Main jet / needle		—
Injection pressure	bar	3.3 to 3.4
Pump pressure	bar	3.5
Octane rating	RON	95[U]

## Ignition system

440/460 1.6i 1991 to 1997

Type		AEI
Ignition coil		S100
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		WR6DC / RN7YC
Electrode gap	mm	0.70 to 0.80

## Electrical system

440/460 1.6i 1991 to 1997

Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.5 / 63, 72 / 2500
Starter motor current / voltage - cranking	A / V	200 to 275 / 9.0
- locked	A / V	390 to 480 / 6.0

## Running gear

440/460 1.6i 1991 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	175/65x14: 185/60x14:185/65x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.9
- Estate / Van	bar	—

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber		-24'±30' N/A
Castor		+4°6'±30' N/A
King pin inclination		+13°15'±30' N/A

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0 to 5.0
Camber		-1°

## Torque wrench settings

440/460 1.6i 1991 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

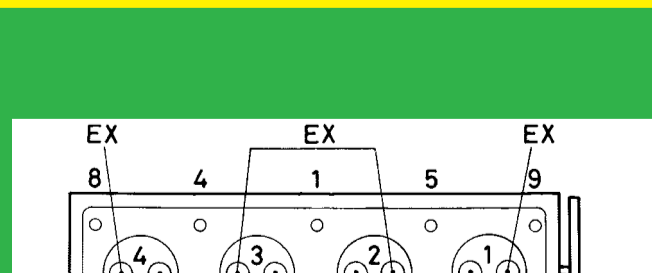
## Capacities

440/460 1.6i 1991 to 1997

Engine oil & filter	litres	5.3. 93 ▶94: 5.0. 94 ▶: 4.6
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	60

## Notes and Illustrations

<sup>1</sup>90 ▶91: 69kW. 92 ▶93: 62kW. 93 ▶: 61kW

1596 cm<sup>3</sup>