

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 Tempra 1.4ie CAT 1992 to 1994

Type		160 A1.046 SOHC 51kW US83
Capacity (cm ³) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2+0.1-0.2 / _
Oil pressure	bar	1.5 [4.6]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel system Tempra 1.4ie CAT 1992 to 1994

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 1.0. Ex: ≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤500. Ex: ≤70
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic SPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system Tempra 1.4ie CAT 1992 to 1994

Type		Digiplex 2-Static
Ignition coil		Marelli BAE 504D
Primary resistance	ohms	0.405 to 0.495
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.20 to 0.80]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	4±2 BTDC @ 800 to 850
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	46±2 BTDC @ 4500
	° 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		Champion
Type		RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical system Tempra 1.4ie CAT 1992 to 1994

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / 65 / 3500
Starter motor current / voltage - cranking	A / V	160 to 180 / 9.4 to 9.6
- locked	A / V	316 / 7.3

Running gear Tempra 1.4ie CAT 1992 to 1994

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	165/70x13:165/65x13: 165/65x14
Estate / Van	Size	165/70x13:165/65x13: 165/65x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	2.2 / 2.2
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		-20'±40' N/A
Castor		+1°30' to 2°30' N/A ¹
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5 to +1.5
Camber		-30' to -1°30' N/A

Torque wrench settings Tempra 1.4ie CAT 1992 to 1994

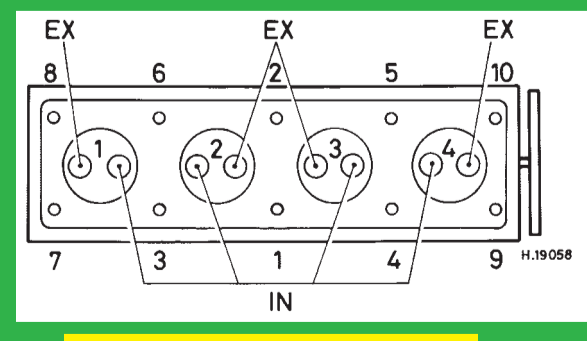
Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	235
Rear hubs	Nm	284
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities Tempra 1.4ie CAT 1992 to 1994

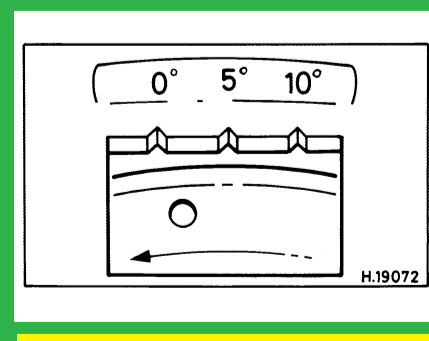
Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	65

Notes and Illustrations

¹PAS 4D: +2°30' to 3°30'. 5D: +1°10' to 2°10'. PAS 5D: +2° 10' to 3°10'



1372 cm³



1372 cm³