

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Tipo 1.4ie CAT 1991 to 1996

Type		160 A1.046 51kW US83
Capacity (cm³) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.4 to 4.9]
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

Tipo 1.4ie CAT 1991 to 1996

Idle speed - manual [auto]	rpm	800 to 850 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 1.0. Ex: ≤0.35 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤70
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ 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

Tipo 1.4ie CAT 1991 to 1996

Type		Digiplex 2
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	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	4±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1250±200
	° Crankshaft @ rpm	12±2 @ 2100±200
	° Crankshaft @ rpm	24±2 @ 5250±200
Vacuum range check	mbar	200 to 413
Maximum vacuum advance	° Crankshaft	12±2
Spark plugs		Bosch/Champion
Type		WR6DC / RN9YCC
Electrode gap	mm	0.60 to 0.80

Electrical system

Tipo 1.4ie CAT 1991 to 1996

Battery	V / CC / RC	12 / 185 / 40 or / 200 / 40
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

Tipo 1.4ie CAT 1991 to 1996

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	155x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+10'±30' N/A
Castor		+1°20'±30'. PAS: +2°20'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±2.0
Camber		-1°30'±15'

Torque wrench settings

Tipo 1.4ie CAT 1991 to 1996

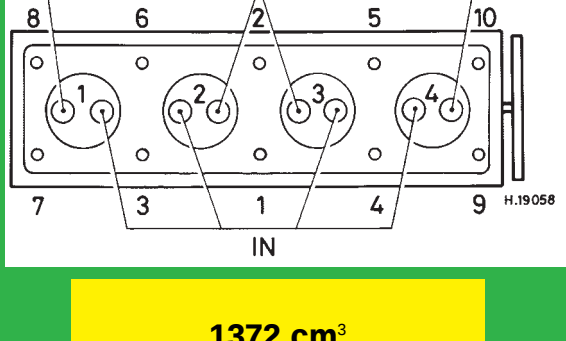
Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	M6: 17. M8: 30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	235
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

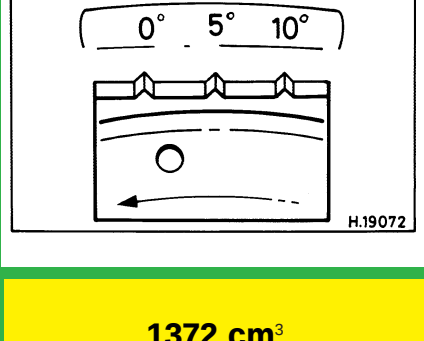
Tipo 1.4ie CAT 1991 to 1996

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

Notes and Illustrations



1372 cm³



1372 cm³