

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 C15E 1124 CAT 1990 to 1997

Type		TU1M/W2 (HDZ) 44.1kW CEE09
Capacity (cm ³) / number of cylinders		1124 / 4
Compression ratio / pressure	bar	9.4 / _
Oil pressure	bar	[4.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	87 to 89
Radiator cap pressure	bar	1.0

Fuel system C15E 1124 CAT 1990 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥11.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic A2.2
Main jet / needle		_
Injection pressure	bar	1.0
Pump pressure	bar	1.1
Octane rating	RON	95[U]

Ignition system C15E 1124 CAT 1990 to 1997

Type		Electronic
Ignition coil		Ducellier. Marelli. BTR 02
Primary resistance	ohms	0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch/Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C061-D046
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000 to 1300
	° Crankshaft @ rpm	13 to 17 @ 3000
	° Crankshaft @ rpm	21 to 25 @ 6000
Vacuum range check	mbar	130 to 250
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Bosch
Type		FR8LDC
Electrode gap	mm	0.80

Electrical system C15E 1124 CAT 1990 to 1997

Battery	V / CC / RC	12 / 175 / 29
Alternator voltage / full load current / engine rpm		13.8 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	47 / 12 (no load)
- locked	A / V	_

Running gear C15E 1124 CAT 1990 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	_
Estate / Van	Size	145x13
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.3 / 2.6
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0
Camber		+37'±30' (765kg: +34'±30')
Castor		+57'±30' (765kg: +43'±30')
King pin inclination		+8°39'±30' (765kg: +8°45'±30')
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6 to 5.0
Camber		-9'±20'

Torque wrench settings C15E 1124 CAT 1990 to 1997

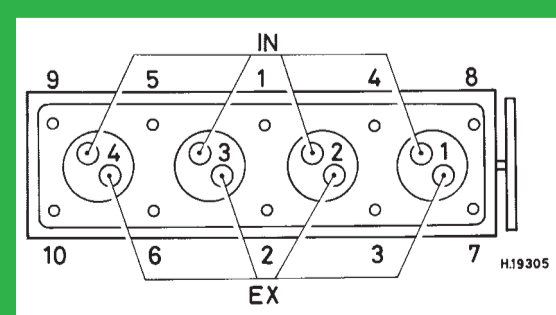
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 240°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	20 + 45°
Clutch cover	Nm	10
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	60 to 80
Spark plugs	Nm	25

Capacities C15E 1124 CAT 1990 to 1997

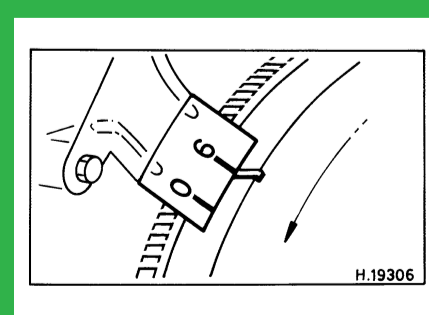
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	47

Notes and Illustrations

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1124 cm³



1124 cm³