

Engine & Cooling

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Automotive Technical
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Engine and cooling system

AX 1.1i CAT

1992 to 1997

Type	TU1M/Z/L3 (HDZ/HDY) 44/40kW	
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	90 to 95
Radiator cap pressure	bar	1.0. 92 ►: 1.4

Fuel system

AX 1.1i CAT

1992 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	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥11.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Magneti-Marelli ¹	
Type / ref	MM G6-11 SPI	
Main jet / needle	_	
Injection pressure	bar	MM: 0.8. Bosch: 1.0
Pump pressure	bar	1.1
Octane rating	RON	95[U]

Ignition system

AX 1.1i CAT

1992 to 1997

Type	Static	
Ignition coil	2xValeo. Bosch. 4 output	
Primary resistance	ohms	0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	_	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	8±2 BTDC @ idle
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	_
	° 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	
Type	FR8LDC	
Electrode gap	mm	0.90

Electrical system

AX 1.1i CAT

1992 to 1997

Battery	V / CC / RC	12 / 150 / 25
Alternator voltage / full load current / engine rpm	13.5 / 50 / 3650	
Starter motor current / voltage - cranking	A / V	275 / 12
- locked	A / V	220 / _

Running gear

AX 1.1i CAT

1992 to 1997

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

Tyres		
Saloon	Size	155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5 to -3.5
Camber	0+30'	
Castor	+2°15'±1°	
King pin inclination	+12.58°	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.8 to 5.4
Camber	-1°15'±20'	

Torque wrench settings

AX 1.1i CAT

1992 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	13
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	140
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

Capacities

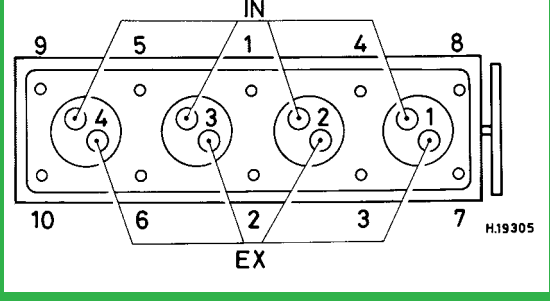
AX 1.1i CAT

1992 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	4.8
Fuel tank	litres	43

Notes and Illustrations

¹94 ►: Bosch MA3.0 or A2.2-Mono-Motronic



1124 cm³