

Engine & Cooling

Fuel

Ignition

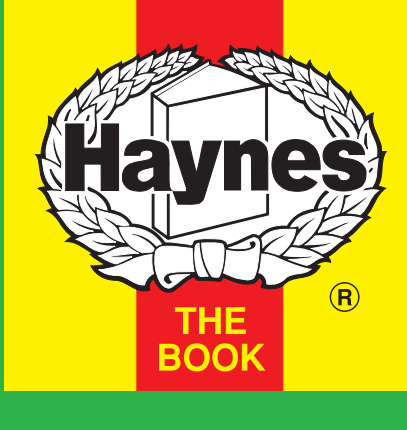
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemAX 1.4 MPI CAT1991 to 1996

Type		TU3J2/Z/L (KFZ) 69kW EEC93
Capacity (cm³) / number of cylinders		1360 / 4
Compression ratio / pressure	bar	9.9 / _
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	93
Radiator cap pressure	bar	1.4

Fuel systemAX 1.4 MPI CAT1991 to 1996

Idle speed - manual [auto]	rpm	900±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		Bosch
Type / ref		MP3.1-Motronic MPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemAX 1.4 MPI CAT1991 to 1996

Type		DME Motronic
Ignition coil		2x Valeo BTR 05
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	N/A
V = Vacuum NV = No Vacuum		_
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		FR6KDC
Electrode gap	mm	0.90

Electrical systemAX 1.4 MPI CAT1991 to 1996

Battery	V / CC / RC	12 / 250 / _
Alternator voltage / full load current / engine rpm		13.5 / 70 / 3650
Starter motor current / voltage - cranking	A / V	275 / 12
- locked	A / V	220 / _

Running gearAX 1.4 MPI CAT1991 to 1996

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

Tyres		
Saloon	Size	185/60x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.0 to 3.0
Camber		-30'±30'
Castor		+2°15'±30'
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 settingsAX 1.4 MPI CAT1991 to 1996

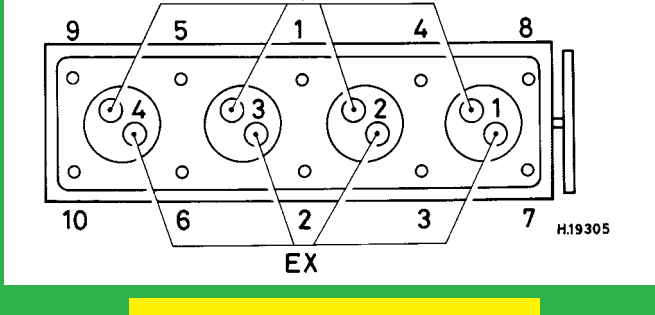
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 120°
Cylinder head - stage 3	Nm	+ 120°
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	20 + 45°
Clutch cover	Nm	13
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	140
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

CapacitiesAX 1.4 MPI CAT1991 to 1996

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

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1360 cm³