

Engine & Cooling

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Automotive Technical
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Engine and cooling systemXM V61994 to 1997

Type		ZPJ/Z/L3 (UFZ) SOHC 12V 123kW
Capacity (cm ³) / number of cylinders		2963 / 6
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[5.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-6-3-5-2-4
No 1 cylinder position		FEL
Thermostat opening temperature	°C	78
Radiator cap pressure	bar	1.4

Fuel systemXM V61994 to 1997

Idle speed - manual [auto]	rpm	750 [800] A/C: 850 ±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	≥11.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Siemens Bendix
Type / ref		Fenix 3B
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemXM V61994 to 1997

Type		Fenix 3B
Ignition coil		Bosch
Primary resistance	ohms	0.5
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	Computer control N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		Eyquem
Type		RFC58LS3E
Electrode gap	mm	1.00±0.01 N/A

Electrical systemXM V61994 to 1997

Battery	V / CC / RC	12 / 300, 400 / _
Alternator voltage / full load current / engine rpm		13.5 / 90 / 3000
Starter motor current / voltage - cranking	A / V	300 or 430
- locked	A / V	_

Running gearXM V61994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	205/60x15: 205/65x15
Estate / Van	Size	205/60x15: 205/65x15
Pressure - front / rear - Saloon	bar	2.4 / 2.2. AT: 2.3 / 1.9
- Estate / Van	bar	2.4 / 2.4. AT: 2.3 / 2.3

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber		0'±30' N/A
Castor		+2°30'±30' N/A
King pin inclination		+13°15' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 6.5 N/A
Camber		+50'±20' N/A

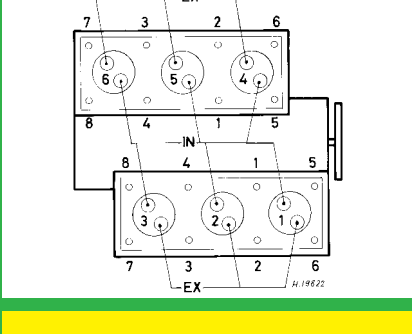
Torque wrench settingsXM V61994 to 1997

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	40
- stage 4	Nm	+180°
Big-end bearings	Nm	20 + 75°
Main bearings	Nm	30 + 75°
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	320
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

CapacitiesXM V61994 to 1997

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	1.85
Automatic transmission - refill	litres	2.7
Final drive	litres	WT
Cooling system	litres	11.8
Fuel tank	litres	80

Notes and Illustrations



2963 cm³, 12V