

Engine & Cooling

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Automotive Technical
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Engine and cooling systemXantia 1.8i 16V1995 to 1997

Type		XU7JP4/L3 (LFY) 81kW EEC96
Capacity (cm³) / number of cylinders		1761 / 4
Compression ratio / pressure	bar	10.4 / _
Oil pressure	bar	[6.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.4

Fuel systemXantia 1.8i 16V1995 to 1997

Idle speed - manual [auto]	rpm	800±50
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		Bosch
Type / ref		MP5.1.1-Motronic MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition systemXantia 1.8i 16V1995 to 1997

Type		Motronic Static
Ignition coil		2x Bosch. Valeo BAE 04
Primary resistance	ohms	0.7
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 V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	Computer control
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		Bosch/Eyquem
Type		FR8LDC / RFC42LS2E
Electrode gap	mm	0.90

Electrical systemXantia 1.8i 16V1995 to 1997

Battery	V / CC / RC	(12L1 250, 12L2 300)
Alternator voltage / full load current / engine rpm		13.0 / 75, 92 / 1850
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearXantia 1.8i 16V1995 to 1997

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

Tyres		
Saloon	Size	175/70x14: 185/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber		0±30' N/A
Castor		+1°±30'. PAS/96 ►: +3°±30'
King pin inclination		+13°20'±30'. 96 ►: 13°15'±35'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 6.0 N/A
Camber		-1°15'±20' N/A

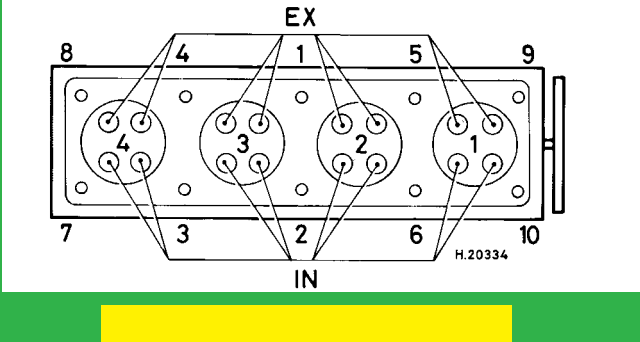
Torque wrench settingsXantia 1.8i 16V1995 to 1997

Cylinder head - stage 1	Nm	60. Bolts: ≤160.5mm
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°±3°
Big-end bearings	Nm	40, slacken, then 20 + 70°
Main bearings	Nm	55
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	320
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

CapacitiesXantia 1.8i 16V1995 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.8
Fuel tank	litres	65

Notes and Illustrations



1761 cm³, DOHC 16V