

Engine & Cooling

Fuel

Ignition

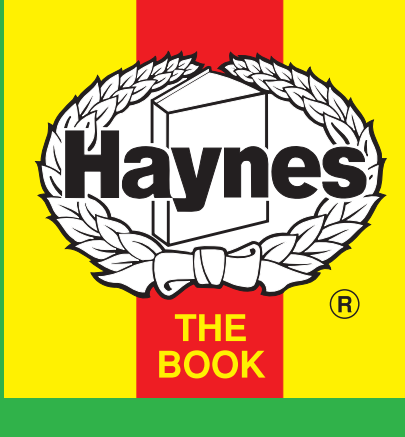
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemXantia 1.6i1993 to 1997

Type	XU5JP/Z/L3 (BFZ) 65kW EEC96	
Capacity (cm³) / number of cylinders	1580 / 4	
Compression ratio / pressure	bar	9.25 / _
Oil pressure	bar	[5.3]
Oil temperature	°C	80
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	88
Radiator cap pressure	bar	1.4

Fuel systemXantia 1.6i1993 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 N/A
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	
Type / ref	MMDCM 8P-13 MPI	
Main jet / needle	_	
Injection pressure	bar	2.0 to 2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemXantia 1.6i1993 to 1997

Type	Static	
Ignition coil	2x4 output	
Primary resistance	ohms	_
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
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/Eyquem	
Type	FR8LDC / RFC42LS2E	
Electrode gap	mm	0.90

Electrical systemXantia 1.6i1993 to 1997

Battery	V / CC / RC	(12L1 250, 12L2 300)
Alternator voltage / full load current / engine rpm	13.0 / 80. AC: 90 / 1850	
Starter motor current / voltage - cranking	A / V	300
- locked	A / V	_

Running gearXantia 1.6i1993 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	

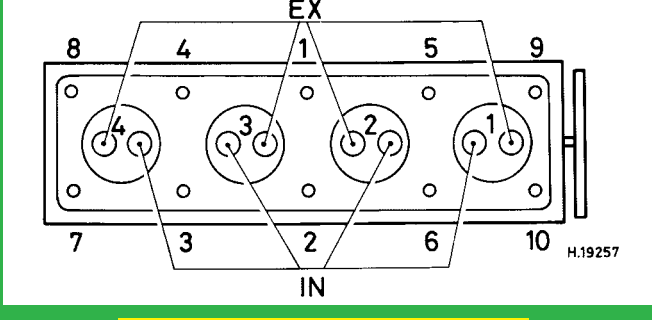
Torque wrench settingsXantia 1.6i1993 to 1997

Cylinder head - stage 1	Nm	60. Bolts: ≤176.5mm
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
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 1.6i1993 to 1997

Engine oil & filter	litres	4.75
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	7.0. A/c: 8.0. AT: 8.3
Fuel tank	litres	65

Notes and Illustrations



1580 cm³, 8V