

Engine & Cooling

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Automotive Technical
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Engine and cooling systemXantia V61997

Type		ES9J4/L3 (XFZ) 140kW
Capacity (cm³) / number of cylinders		2946 / 6
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	2.0 [5.0]
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	82
Radiator cap pressure	bar	1.40

Fuel systemXantia V61997

Idle speed - manual [auto]	rpm	600±50. A/C: 700±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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		MP7.0-Motronic MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemXantia V61997

Type		Direct electronic
Ignition coil		Sagem BBC 3.2
Primary resistance	ohms	0.65
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	_
	° 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/Bosch
Type		RFC58LSPD / FR7KDC
Electrode gap	mm	1.00

Electrical systemXantia V61997

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

Running gearXantia V61997

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

Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	205/60x15
Pressure - front / rear - Saloon	bar	2.3 / 2.1
- Estate / Van	bar	Refer to car

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

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 V61997

Cylinder head - stage 1	Nm	Bolt length ≤149.5 mm20
- stage 2	Nm	20, then slacken
Cylinder head - stage 3	Nm	15
- stage 4	Nm	+ 225°
Big-end bearings	Nm	20 + 74°
Main bearings	Nm	WSM
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	10 + 60°
Front hubs	Nm	320
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

CapacitiesXantia V61997

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	10.0
Fuel tank	litres	65

Notes and Illustrations

