

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Ulysse 2.0 Turbo

1995 to 1997

Type		ZFA220000(RGX) Turbo 108kW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	[4.8]
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		TBE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.4

Fuel system

Ulysse 2.0 Turbo

1995 to 1997

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Bosch
Type / ref		MP3.2-Motronic
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Ulysse 2.0 Turbo

1995 to 1997

Type		Motronic
Ignition coil		BAE 04-V5 4 output
Primary resistance	ohms	0.64 to 0.96
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	13°±3° @ 850±50
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/Champion
Type		RFC58LS2E / RC7BMC
Electrode gap	mm	0.80

Electrical system

Ulysse 2.0 Turbo

1995 to 1997

Battery	V / CC / RC	12 / L2 400
Alternator voltage / full load current / engine rpm		70Ah
Starter motor current / voltage - cranking	A / V	300
- locked	A / V	_

Running gear

Ulysse 2.0 Turbo

1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	205/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.8±1.0
Camber		0°±30'
Castor		2°35'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.4±1.0
Camber		-1°±30'

Torque wrench settings

Ulysse 2.0 Turbo

1995 to 1997

Cylinder head - stage 1	Nm	Bolts ≤122mm
- stage 2	Nm	35
Cylinder head - stage 3	Nm	70
- stage 4	Nm	+160°
Big-end bearings	Nm	40, slacken, 20 +70°
Main bearings	Nm	70
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50
Front hubs	Nm	300
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	28

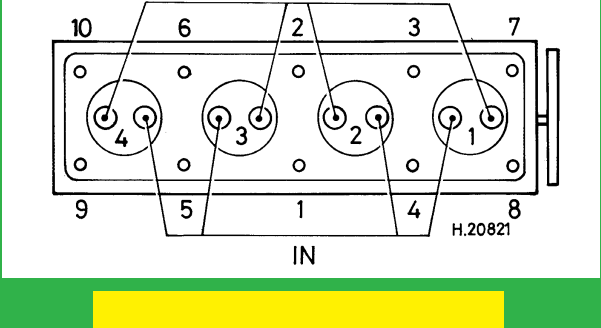
Capacities

Ulysse 2.0 Turbo

1995 to 1997

Engine oil & filter	litres	4.9
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.5
Fuel tank	litres	80

Notes and Illustrations



1998 cm³