

Engine & Cooling

Fuel

Ignition

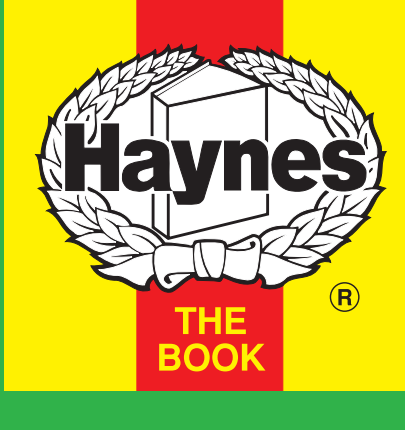
Electrical

Running gear

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Ulysse 2.0

1995 to 1997

Type	ZFA220000(RFU) SOHC 89kW	
Capacity (cm³) / number of cylinders	1998 / 4	
Compression ratio / pressure	bar	9.5 / _
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

1995 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	%	_
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	_Magneti-Marelli	
Type / ref	8P22	
Main jet / needle	_	
Injection pressure	bar	2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Ulysse 2.0

1995 to 1997

Type	IAW	
Ignition coil	BAE 04-V5	
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	Bosch/Champion	
Type	FR8 LDC / RC7YCC	
Electrode gap	mm	0.80

Electrical system

Ulysse 2.0

1995 to 1997

Battery	V / CC / RC	12 / 250 / 50Ah
Alternator voltage / full load current / engine rpm	70/80Ah	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Ulysse 2.0

1995 to 1997

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

Tyres		
Saloon	Size	195/65x15: 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	11°28'±40'	

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

Torque wrench settings

Ulysse 2.0

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

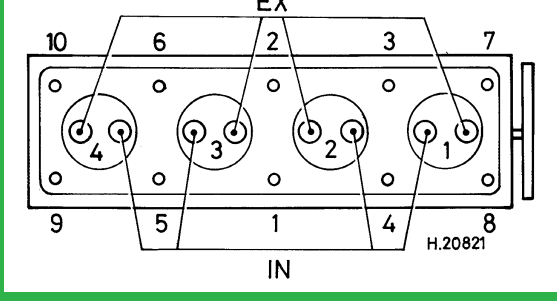
Capacities

Ulysse 2.0

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