

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemEspero 1.81995 to 1997

Type	SOHC 8V 71kW	
Capacity (cm ³) / number of cylinders	1796 / 4	
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	_
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	0.90 to 1.20

Fuel systemEspero 1.81995 to 1997

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	_	
Type / ref	MPI	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemEspero 1.81995 to 1997

Type	Electronic	
Ignition coil	_	
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	15 BTDC @ 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	AC	
Type	R43XLS	
Electrode gap	mm	1.09 to 1.22

Electrical systemEspero 1.81995 to 1997

Battery	V / CC / RC	12 / 55 / 270
Alternator voltage / full load current / engine rpm	_ / 85 / _	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearEspero 1.81995 to 1997

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

Tyres		
Saloon	Size	185/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.4
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber	-25'±45'	
Castor	+2°30'±30'	
King pin inclination	_	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to +4.0
Camber	-1.0 to 0	

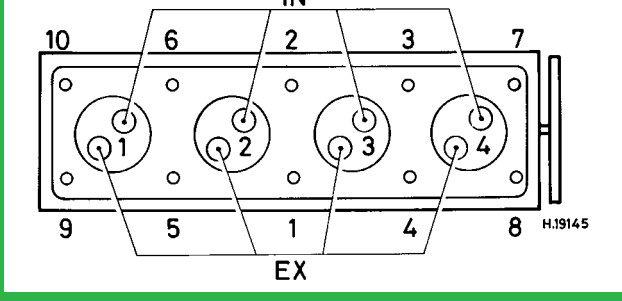
Torque wrench settingsEspero 1.81995 to 1997

Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 60°
Cylinder head - stage 3	Nm	+60° + 60°
- stage 4	Nm	Warm up, + 30° to 50°
Big-end bearings	Nm	35 + 40° to 45° N
Main bearings	Nm	95 N
Clutch cover	Nm	35
Flywheel [driveplate]	Nm	75 N
Front hubs	Nm	100, slacken, then 20 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	20

CapacitiesEspero 1.81995 to 1997

Engine oil & filter	litres	3.85
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	6.5 to 7.0
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	50

Notes and Illustrations



1796 cm³