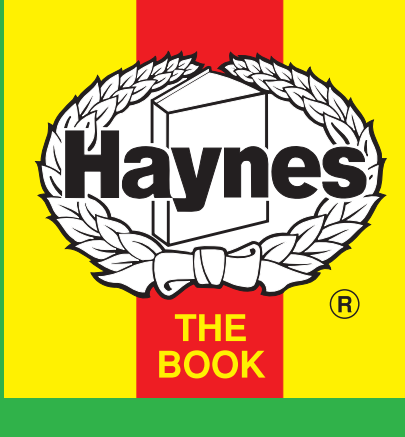


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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Engine and cooling system164, V6 24V1993 to 1997

Type		066.301. 95 ►: AR66.302 157kW
Capacity (cm³) / number of cylinders		2959 / 6
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[3.9 to 5.9]
Oil temperature	°C	90
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	87±2. 95 ►: 83±2
Radiator cap pressure	bar	0.90 to 1.10

Fuel system164, V6 24V1993 to 1997

Idle speed - manual [auto]	rpm	600 to 800. 95 ►: 650 to 750
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	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Bosch
Type / ref		ML1.7-Motronic
Main jet / needle		_
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system164, V6 24V1993 to 1997

Type		Direct electronic
Ignition coil		1 coil per cylinder
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	Computer control
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
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		NGK
Type		RPFR6B
Electrode gap	mm	N/A

Electrical system164, V6 24V1993 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.8 / 120 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear164, V6 24V1993 to 1997

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

Tyres		
Saloon	Size	195/65x15: 205/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0. 95 ►: -1.0±1.0
Camber		-1°37'±20'
Castor		+2°17'±20'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+5.0±1.0
Camber		-1°±20'. 95 ►: -15'±20'

Torque wrench settings164, V6 24V1993 to 1997

Cylinder head - stage 1	Nm	25
- stage 2	Nm	+240°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	46 to 51
Main bearings	Nm	84 to 93
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	113 LkC
Front hubs	Nm	66 to 73 + 61±2°
Rear hubs	Nm	250 to 300
Wheel nuts / bolts	Nm	95 to 105
Spark plugs	Nm	25 to 34

Capacities164, V6 24V1993 to 1997

Engine oil & filter	litres	7.2
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	4.8
Final drive	litres	WT
Cooling system	litres	13.0. Refill: 9.5
Fuel tank	litres	70

Notes and Illustrations

