

Engine & Cooling

Fuel

Ignition

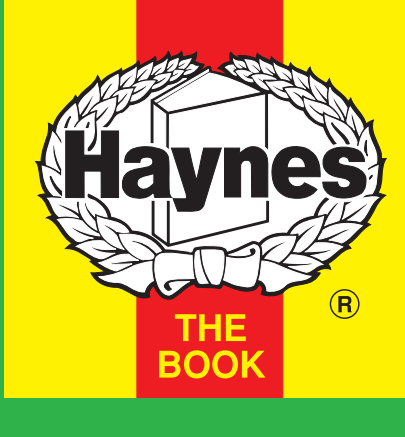
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system145, 146 1.6ie1994 to 1997

Type	AR 33201 SOHC 76kW	
Capacity (cm³) / number of cylinders	1596 / 4	
Compression ratio / pressure	bar	9.5 / 10.3
Oil pressure	bar	0.8 [4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-2-4	
No 1 cylinder position	FR	
Thermostat opening temperature	°C	86±2
Radiator cap pressure	bar	1.0±0.1

Fuel system145, 146 1.6ie1994 to 1997

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤50
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_GM	
Type / ref	Rochester MPI	
Main jet / needle	—	
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	≤4.0
Octane rating	RON	95[U]

Ignition system145, 146 1.6ie1994 to 1997

Type	Computerized	
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	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	Lodge	
Type	25HL	
Electrode gap	mm	N/A

Electrical system145, 146 1.6ie1994 to 1997

Battery	V / CC / RC	12 / 45Ah. A/C: 12 / 60Ah
Alternator voltage / full load current / engine rpm	14 / 65, 80 / _	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear145, 146 1.6ie1994 to 1997

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

Tyres		
Saloon	Size	175/65x14: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.5±1.0
Camber	+10'±20'	
Castor	+3°20'±30'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±2.0
Camber	-1°±15'	

Torque wrench settings145, 146 1.6ie1994 to 1997

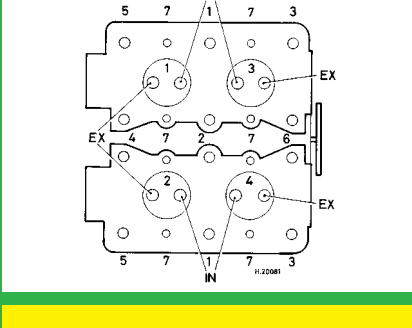
Cylinder head - stage 1	Nm	29
- stage 2	Nm	58
Cylinder head - stage 3	Nm	91 to 101
- stage 4	Nm	—
Big-end bearings	Nm	53 to 58 oiled
Main bearings	Nm	67 to 74. Side: 41 to 50 oiled
Clutch cover	Nm	19 to 23
Flywheel [driveplate]	Nm	97 to 107 oiled
Front hubs	Nm	266 to 294
Rear hubs	Nm	266 to 294
Wheel nuts / bolts	Nm	83 to 103
Spark plugs	Nm	25 to 34

Capacities145, 146 1.6ie1994 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.7
Fuel tank	litres	51

Notes and Illustrations

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1596 cm³