

Engine & Cooling

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Engine and cooling system

145, 146 2.0 16V

1996 to 1997

Type		AR 67204 DOHC 16V 112kW
Capacity (cm ³) / number of cylinders		1970 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	1.5
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	83±2
Radiator cap pressure	bar	1.0±0.1

Fuel system

145, 146 2.0 16V

1996 to 1997

Idle speed - manual [auto]	rpm	700±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		_ Bosch
Type / ref		M2.10.3-Motronic
Main jet / needle		_
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

145, 146 2.0 16V

1996 to 1997

Type		Direct electronic
Ignition coil		Bosch
Primary resistance	ohms	0.3
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	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		PFR6B
Electrode gap	mm	0.70

Electrical system

145, 146 2.0 16V

1996 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14 / 100 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

145, 146 2.0 16V

1996 to 1997

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

Tyres		
Saloon	Size	195/55x15
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
Camber		-50'±20'
Castor		+3°20'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		-1°±20'

Torque wrench settings

145, 146 2.0 16V

1996 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° + 90°
Big-end bearings	Nm	44 to 53 oiled
Main bearings	Nm	96 to 119 oiled
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	121 to 149 oiled
Front hubs	Nm	67 to 74 + 62°
Rear hubs	Nm	266 to 294
Wheel nuts / bolts	Nm	83 to 103
Spark plugs	Nm	Large:25 to 34.Small: 10 to 12

Capacities

145, 146 2.0 16V

1996 to 1997

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.3
Fuel tank	litres	61

Notes and Illustrations

