

Engine & Cooling

Fuel

Ignition

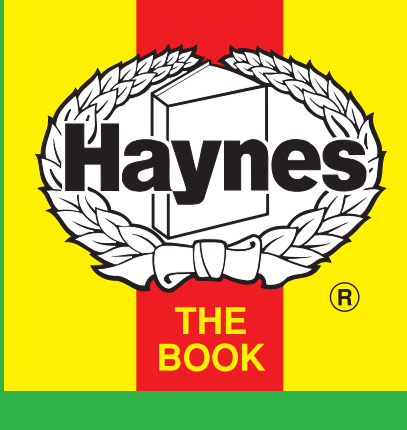
Electrical

Running gear

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Automotive Technical
DATA BOOK

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Engine and cooling systemBravo 2.0 20V1996 to 1997

Type		182 A1.000 DOHC 20V 108kW
Capacity (cm ³) / number of cylinders		1998 / 5
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[4.0]
Oil temperature	°C	100
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-4-5-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81
Radiator cap pressure	bar	0.98

Fuel systemBravo 2.0 20V1996 to 1997

Idle speed - manual [auto]	rpm	750±50
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		_Bosch
Type / ref		M2.10.4-Motronic SEFI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemBravo 2.0 20V1996 to 1997

Type		Motronic Static
Ignition coil		Bosch 5x 0 221 504 006
Primary resistance	ohms	0.40
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		_/Champion
Type		RC7BMC
Electrode gap	mm	0.80

Electrical systemBravo 2.0 20V1996 to 1997

Battery	V / CC / RC	12 / 50 / 380
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 85 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearBravo 2.0 20V1996 to 1997

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

Tyres		
Saloon	Size	195/55x15: 205/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		-33'±30'
Castor		+2°50'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5 to +1.5
Camber		-1°±30'

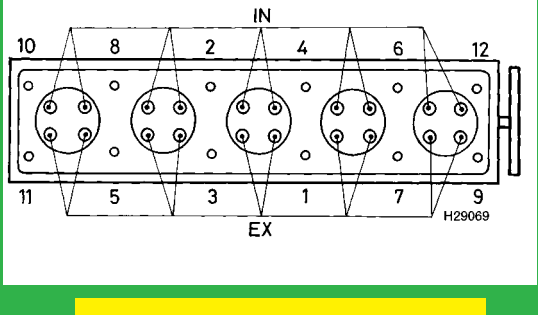
Torque wrench settingsBravo 2.0 20V1996 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	113
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	142
Front hubs	Nm	280
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25

CapacitiesBravo 2.0 20V1996 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.4
Fuel tank	litres	60

Notes and Illustrations



1998 cm³, 20V