

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

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

## Engine and cooling system Bravo & Brava 1.4 12V 1996 to 1997

Type		182 AA.1AA SOHC 12V 59kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1370 / 4
Compression ratio / pressure	bar	9.85 / _
Oil pressure	bar	[4.0]
Oil temperature	°C	100
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	81
Radiator cap pressure	bar	0.98

## Fuel system Bravo & Brava 1.4 12V 1996 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 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	≥13.0
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_ Bosch
Type / ref		Mono-Motronic SPI
Main jet / needle		_
Injection pressure	bar	1.0±0.006
Pump pressure	bar	_
Octane rating	RON	95[U]

## Ignition system Bravo & Brava 1.4 12V 1996 to 1997

Type		Motronic Static
Ignition coil		Bosch 0 221 503 407
Primary resistance	ohms	0.45 to 0.55
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 system Bravo & Brava 1.4 12V 1996 to 1997

Battery	V / CC / RC	12 / 40 / 200
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 65 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

## Running gear Bravo & Brava 1.4 12V 1996 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	165/65x14:175/65x14:185/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.1
- Estate / Van	bar	_

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		-7'±30'
Castor		+2°42'±30'
King pin inclination		_

## Rear suspension / wheel alignment

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

## Torque wrench settings Bravo & Brava 1.4 12V 1996 to 1997

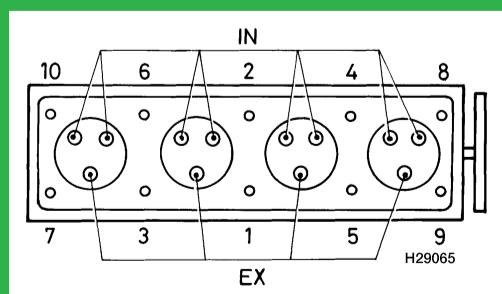
Cylinder head - stage 1	Nm	20
- stage 2	Nm	50
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	113
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	142
Front hubs	Nm	240
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25

## Capacities Bravo & Brava 1.4 12V 1996 to 1997

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	1.7
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

## Notes and Illustrations

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1370 cm<sup>3</sup>, 12V