

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Bravo & Brava 1.4 12V

1996 to 1997

Type		182 AA.1AA SOHC 12V 59kW
Capacity (cm³) / 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
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ 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

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

Tyres		
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

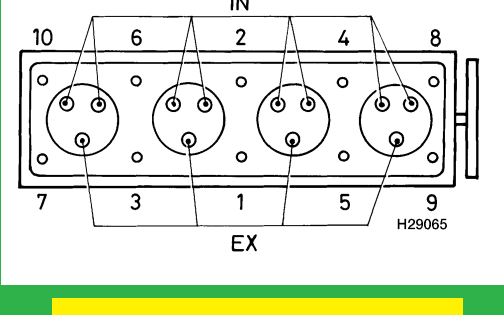
Bravo & Brava 1.4 12V

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 cm³, 12V