

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

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Engine and cooling system Brava / Campo CAT 2.3 1995 to 1996

Type		4ZD1 SOHC 72kW
Capacity (cm ³) / number of cylinders		2254 / 4
Compression ratio / pressure	bar	8.6 /
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	—
Valve clearance - exhaust	mm	—
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	—
Radiator cap pressure	bar	—

Fuel system Brava / Campo CAT 2.3 1995 to 1996

Idle speed - manual [auto]	rpm	—
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	87[U]

Ignition system Brava / Campo CAT 2.3 1995 to 1996

Type		Electronic
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	—
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
Centrifugal	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
Vacuum	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		—
Type		—
Electrode gap	mm	—

Electrical system Brava / Campo CAT 2.3 1995 to 1996

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Brava / Campo CAT 2.3 1995 to 1996

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	—
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—
Castor		—
King pin inclination		—
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

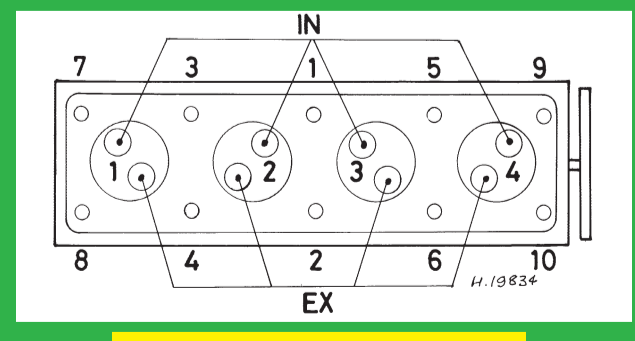
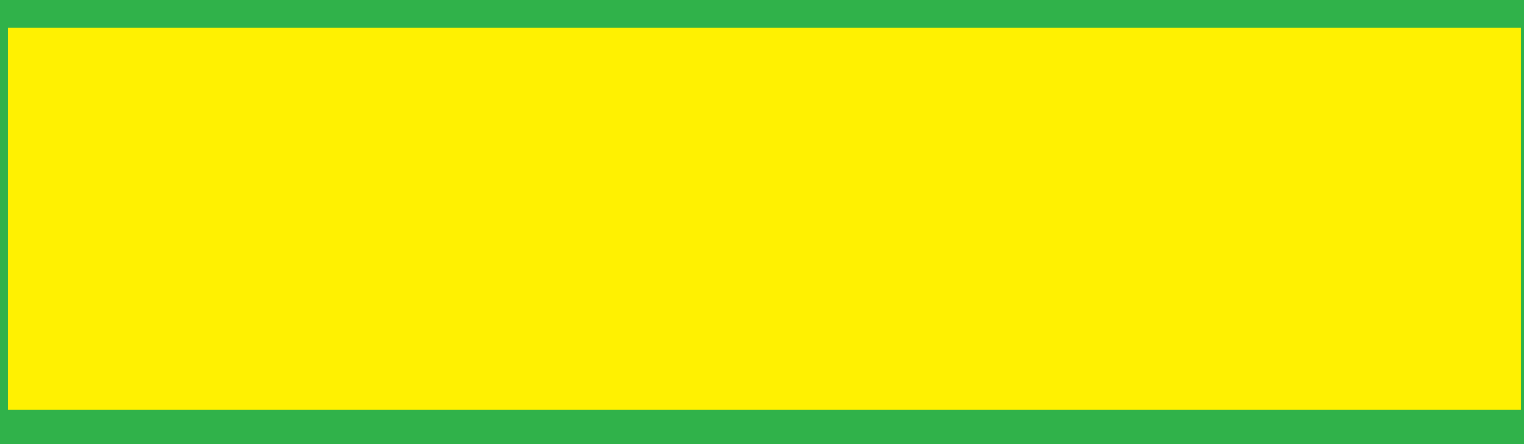
Torque wrench settings Brava / Campo CAT 2.3 1995 to 1996

Cylinder head - stage 1	Nm	78 oiled
- stage 2	Nm	88 to 108
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	57 to 61 oiled
Main bearings	Nm	83 to 113 oiled
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	54 to 64
Front hubs	Nm	—
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	—
Spark plugs	Nm	14 to 24

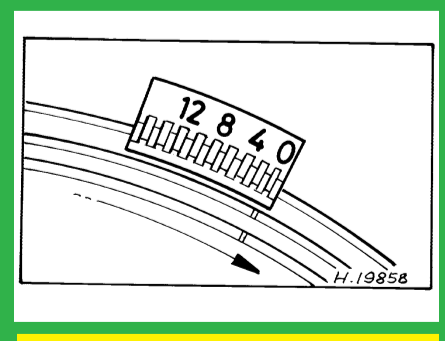
Capacities Brava / Campo CAT 2.3 1995 to 1996

Engine oil & filter	litres	4.9
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	—
Final drive	litres	—
Cooling system	litres	—
Fuel tank	litres	—

Notes and Illustrations



2254 cm³



2254 cm³