

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 740, 2.3 CAT 1989 to 1990

Type		B230K
Capacity (cm <sup>3</sup> ) / number of cylinders		2316 / 4
Compression ratio / pressure	bar	9.8 / ≥9.2
Oil pressure	bar	[2.5 to 6.0]
Oil temperature	°C	H
Valve clearance - inlet	mm	0.30 to 0.40
- exhaust	mm	0.30 to 0.40
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	86 to 88 or 91 to 93
Radiator cap pressure	bar	1.0

## Fuel system 740, 2.3 CAT 1989 to 1990

Idle speed - manual [auto]	rpm	800 [900]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Pierburg
Type / ref		2B7
Main jet / needle		115, 142.5
Injection pressure	bar	—
Pump pressure	bar	0.15 to 0.28
Octane rating	RON	95[U]

## Ignition system 740, 2.3 CAT 1989 to 1990

Type		EZK
Ignition coil		Bosch
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15 BTDC @ 800
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° 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		Bosch/Champion
Type		WR6DC / RN9YC
Electrode gap	mm	0.70 to 0.80

## Electrical system 740, 2.3 CAT 1989 to 1990

Battery	V / CC / RC	12 / 450 / 90
Alternator voltage / full load current / engine rpm		13.8 to 14.6 / _ / 3000
Starter motor current / voltage - cranking	A / V	1.1kW: 70 / 11.5 <sup>1</sup>
- locked	A / V	1.1kW: 480 to 560 / 7.4 <sup>2</sup>

## Running gear 740, 2.3 CAT 1989 to 1990

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

<b>Tyres</b>		
Saloon	Size	185/70x14: 185/65x15
Estate / Van	Size	185/70x14: 185/65x15
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	1.9 / 2.1

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.5±1.0
Camber		-0.2° to +0.8°
Castor		+4.5° to 5.5°
King pin inclination		—

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	1988 ▶: +2.0±3.0
Camber		1988 ▶: WSM

## Torque wrench settings 740, 2.3 CAT 1989 to 1990

Cylinder head - stage 1	Nm	20
- stage 2	Nm	60
- stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	110
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	70 N
Front hubs	Nm	100 + 45°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25

## Capacities 740, 2.3 CAT 1989 to 1990

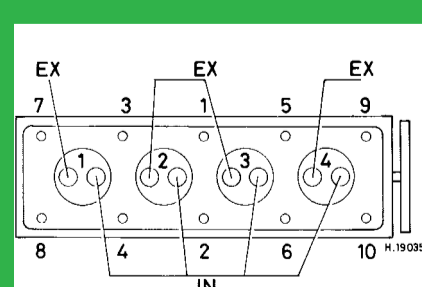
Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	3.9
Final drive	litres	1.6
Cooling system	litres	8.5
Fuel tank	litres	60

## Notes and Illustrations

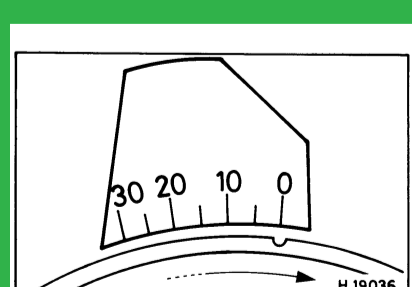
<sup>1</sup>1.4kW: 75 / 11.5. 2kW: 65 to 95 / 11.5. Hitachi: 300 / 8.8

<sup>2</sup>1.4kW: 625 to 800 / 4.5. 2kW: 700 to 880 / 4.5. Hitachi: 880 / 3

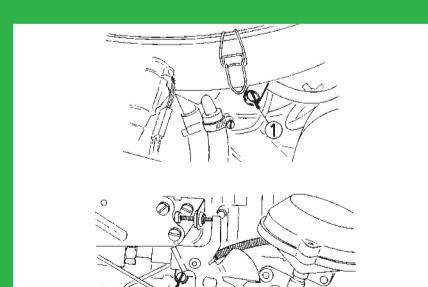
1: Idle speed 2: CO / Mixture



2316 cm<sup>3</sup>, 8V



2316 cm<sup>3</sup>, 8V



Pierburg 2B7