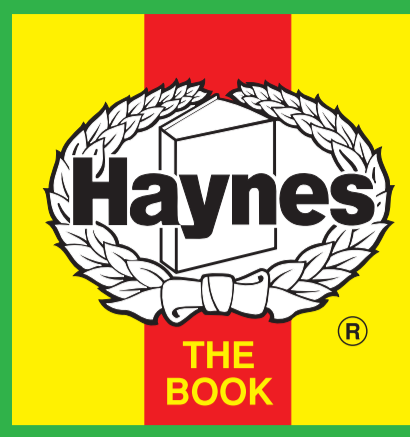


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 740 & 760 Turbo CAT 1989 to 1992

Type		B230FT. SOHC 8V. 121kW
Capacity (cm <sup>3</sup> ) / number of cylinders		2316 / 4
Compression ratio / pressure	bar	8.7 / ≥8.8
Oil pressure	bar	[2.5 to 8.0]
Oil temperature	°C	80
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	87 to 97 or 92 to 102
Radiator cap pressure	bar	1.5

## Fuel system 740 & 760 Turbo CAT 1989 to 1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.6±0.2 N/A
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		Bosch
Type / ref		LH2.4-Jetronic
Main jet / needle		—
Injection pressure	bar	2.9
Pump pressure	bar	1.9 to 3.0
Octane rating	RON	95[U]

## Ignition system 740 & 760 Turbo CAT 1989 to 1992

Type		EZ 116K
Ignition coil		Bosch
Primary resistance	ohms	0.6 to 0.9
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	12 BTDC @ 750±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	Not adjustable
	° 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		WR7DC / RN7YC
Electrode gap	mm	0.70 to 0.80

## Electrical system 740 & 760 Turbo CAT 1989 to 1992

Battery	V / CC / RC	12 / 450 / 90. 91 ▶: Various
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 & 760 Turbo CAT 1989 to 1992

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

<b>Tyres</b>		
Saloon	Size	195/60x15
Estate / Van	Size	195/60x15: 185/65x15
Pressure - front / rear - Saloon	bar	760: 2.0 / 1.9 <sup>3</sup>
- Estate / Van	bar	1.9 / 2.1

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	740: +3.5±1.0 <sup>4</sup>
Camber		-0.2° to +0.8°
Castor		+4.5° to 5.5°
King pin inclination		—

## Rear suspension / wheel alignment

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

## Torque wrench settings 740 & 760 Turbo CAT 1989 to 1992

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	30 + 90° <sup>5</sup>
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25

## Capacities 740 & 760 Turbo CAT 1989 to 1992

Engine oil & filter	litres	3.85. Oil cooler: +0.6
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	2.0
Final drive	litres	1.6
Cooling system	litres	8.5
Fuel tank	litres	60, 80

## Notes and Illustrations

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

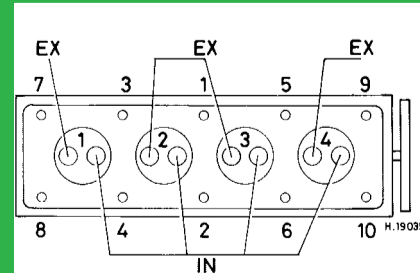
<sup>2</sup>1.4kW: 625 to 800 / 4.5. 2kW: 700 to 880 / 4.5. Hitachi: 880 / 3

<sup>3</sup>740: 1.9 / 1.9

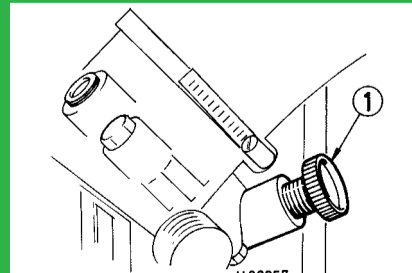
<sup>4</sup>760: +4.0±0.8

<sup>5</sup>Estate: WSM

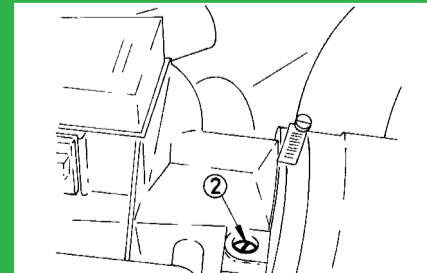
1: Idle speed 2: CO / Mixture



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



LH2.4-Jetronic



LH2.4-Jetronic