

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 1988 to 1989

Type		B230ET
Capacity (cm ³) / number of cylinders		2316 / 4
Compression ratio / pressure	bar	9.0 / ≥8.8
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	91 to 93
Radiator cap pressure	bar	1.5

Fuel system 740 & 760 Turbo 1988 to 1989

Idle speed - manual [auto]	rpm	900
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		Motronic
Main jet / needle		—
Injection pressure	bar	2.9
Pump pressure	bar	1.9 to 3.0
Octane rating	RON	98[E 98 RON]

Ignition system 740 & 760 Turbo 1988 to 1989

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.5
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	10±1 BTDC @ 880 to 920
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 / N7YC
Electrode gap	mm	0.70 to 0.80

Electrical system 740 & 760 Turbo 1988 to 1989

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 ¹
- locked	A / V	1.1kW: 480 to 560 / 7.4 ²

Running gear 740 & 760 Turbo 1988 to 1989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

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

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	740: +3.5±1.0 ⁴
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 1988 to 1989

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° ⁵
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25

Capacities 740 & 760 Turbo 1988 to 1989

Engine oil & filter	litres	4.5 with cooler
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

¹1.4kW: 75 / 11.5. 2kW: 65 to 95 / 11.5. Hitachi: 300 / 8.8

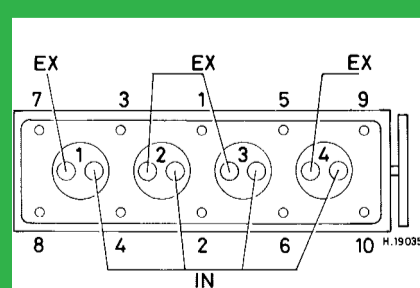
²1.4kW: 625 to 800 / 4.5. 2kW: 700 to 880 / 4.5. Hitachi: 880 / 3

³740: 1.9 / 1.9

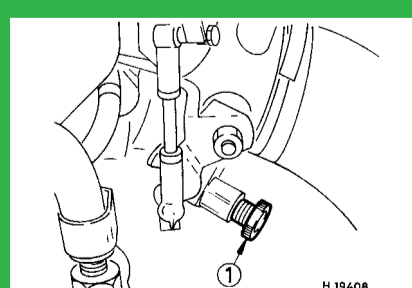
⁴760: +4.0±0.8

⁵Estate: WSM

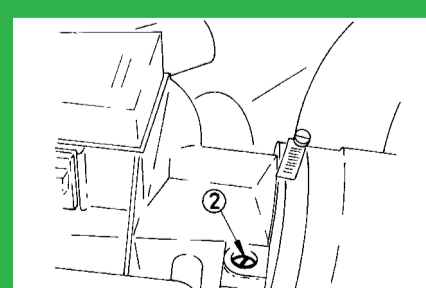
1: Idle speed 2: CO / Mixture



2316 cm³, 8V



Motronic



Motronic