

Engine & Cooling

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Automotive
Technical
DATA BOOK

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Engine and cooling system900 Turbo 16V CAT1989 to 1993

Type		B202 2L DOHC 16V
Capacity (cm ³) / number of cylinders		1985 / 4
Compression ratio / pressure	bar	9.0 / ≥10.0
Oil pressure	bar	[3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		R
Thermostat opening temperature	°C	89±2
Radiator cap pressure	bar	0.9 to 1.2

Fuel system900 Turbo 16V CAT1989 to 1993

Idle speed - manual [auto]	rpm	850±75
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.0
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		LH-Jetronic + Turbo APC
Main jet / needle		—
Injection pressure	bar	2.5±0.05 above m'fold
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition system900 Turbo 16V CAT1989 to 1993

Type		Computerized
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	[≥0.25]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	16 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
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		NGK/Champion
Type		BCP7ES / C7GY
Electrode gap	mm	0.60

Electrical system900 Turbo 16V CAT1989 to 1993

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.8 / _ / 2700
Starter motor current / voltage - cranking	A / V	315 / 9.0
- locked	A / V	450 to 750 / 4.0 to 6.0

Running gear900 Turbo 16V CAT1989 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.5±0.5
Camber		+0.25°±0.25°
Castor		+2°±0.25°
King pin inclination		+11.5°±1°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±2.0
Camber		-0.5°±0.25°

Torque wrench settings900 Turbo 16V CAT1989 to 1993

Cylinder head - stage 1	Nm	60 ¹
- stage 2	Nm	90 ¹
- stage 3	Nm	Warm up, then cool, slacken ¹
- stage 4	Nm	80 + 90 ^{o1}
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	22±2
Flywheel [driveplate]	Nm	60
Front hubs	Nm	290 to 310
Rear hubs	Nm	290 to 310
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	28

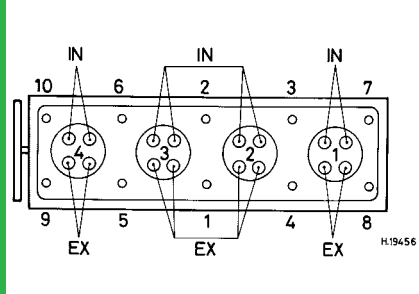
Capacities900 Turbo 16V CAT1989 to 1993

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	2.5 to 3.0
Final drive	litres	AT: 1.4
Cooling system	litres	10.0
Fuel tank	litres	68

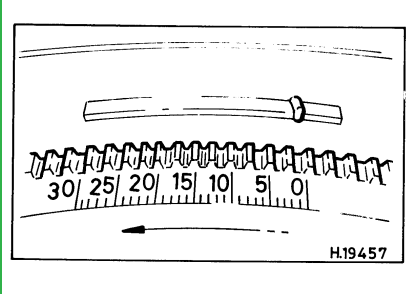
Notes and Illustrations

¹M15 hex head or M12 Torx head bolts only. M17 bolts: 1) 60, 2) 95, 3) Warm up, then cool down and slacken eachbolt in turn, 4) 95

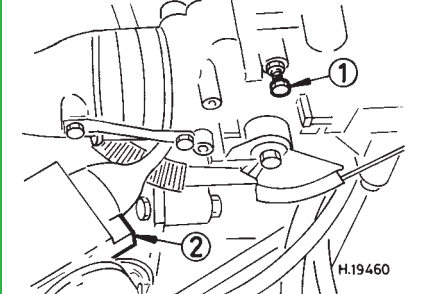
1: Idle speed 2: CO / Mixture



1985 cm³, 16V



1985 cm³, 16V



LH-Jetronic