Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — 400 Turbo & CAT — 1988 to 1996

Type		B18FT(M)-107. SOHC 8V. 90kW[1]
Capacity (cm³) / number of cylinders		1721 / 4
Compression ratio / pressure	bar	8.1 / ≥12.0
Oil pressure	bar	2.0 [3.5]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0.20±0.05
- exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	ºC	92
Radiator cap pressure	bar	1.5

Fuel system — 400 Turbo & CAT — 1988 to 1996

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.0. CAT: 0.4 to 0.8
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200. CAT: ≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LH2.2-Jetronic + Turbo
Main jet / needle		_
Injection pressure	bar	3.3 to 3.4
Pump pressure	bar	3.5
Octane rating	RON	98[E 95 RON][2]

Ignition system — 400 Turbo & CAT — 1988 to 1996

Type		EZ 210K
Ignition coil		TZ61-2
Primary resistance	ohms	0.72
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	º (%)	Electronic control
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	8±3 BTDC @ 800 N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	35±3 BTDC @ 2500 N/A
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Champion
Type		RN6YC
Electrode gap	mm	0.70

Electrical system — 400 Turbo & CAT — 1988 to 1996

Battery	V / CC / RC	12 / 55, 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 15.0 / 70 / 2500
Starter motor current / voltage - cranking	A / V	200 to 275 / 9.0
- locked	A / V	390 to 480 / 6.0

Running gear — 400 Turbo & CAT — 1988 to 1996

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	185/60x14: 185/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 1.9
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	0 to +2.0
Camber		-24'±30'. 480: -30'±30' N/A
Castor		+4°6'±30'. 480: +3°20'±30' N/A
King pin inclination		+13°15'±30' N/A
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+3.0 to 5.0
Camber		-1°

Torque wrench settings — 400 Turbo & CAT — 1988 to 1996

Cylinder head - stage 1	Nm	30
- stage 2	Nm	70
- stage 3	Nm	Slacken, then 20
- stage 4	Nm	+ 123±2°
Big-end bearings	Nm	45
Main bearings	Nm	65
Clutch cover	Nm	22
Flywheel [driveplate]	Nm	53 N
Front hubs	Nm	230
Rear hubs	Nm	180
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

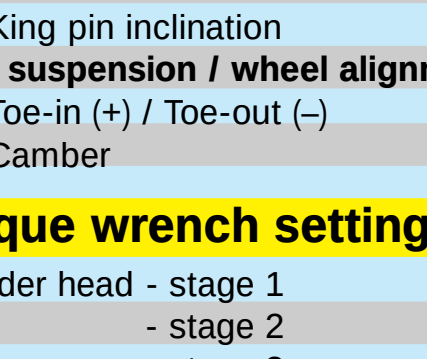
Capacities — 400 Turbo & CAT — 1988 to 1996

Engine oil & filter	litres	5.3. 93 to 94: 5.0. 94 ▶: 4.6
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	3.3
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	48. 91 ▶: 60

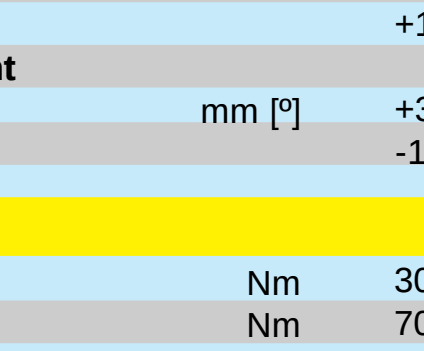
Notes and Illustrations

[1]**Later: 88kW**
[2]**CAT: 95 [U]**

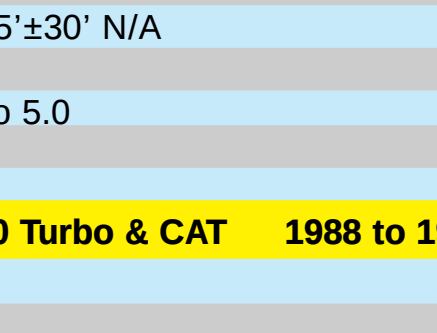
1: Idle speed 2: CO / Mixture



1721 cm³



1721 cm³



LH2.2-Jetronic