Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Type		3A 83kW SOHC
Capacity (cm³) / number of cylinders		1984 / 4
Compression ratio / pressure	bar	10.4 / ≥7.5
Oil pressure	bar	[2.0]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Idle speed - manual [auto]	rpm	780 to 900
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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		KE-Motronic
Main jet / needle		_
Injection pressure	bar	4.0 to 4.6
Pump pressure	bar	5.2 to 5.9
Octane rating	RON	95[U][1]

Ignition system — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Type		DME Motronic
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	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	6±1 BTDC @ 780 to 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	4 to 8 BTDC @ 780 to 900
	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		Bosch/Champion
Type		W7DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 2000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	175/70x14: 195/60x14[2]
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1[3]
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+10'±10']
Camber		-45'±30'. Coupé &4x4: -50'±30'
Castor		+1°15'±30'. Sport: +1°25'±30'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+20'±20']. 4x4: [+20'±10']
Camber		-1°±20'. 4x4: -45'±30'

Torque wrench settings — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	265 LkC[4]
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

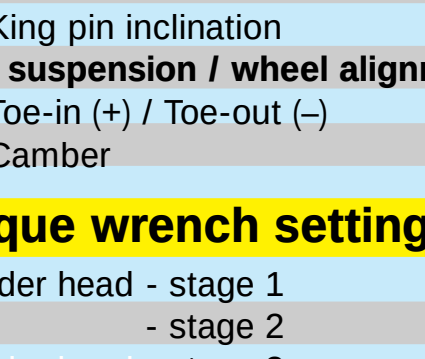
Capacities — 80/Coupé, 2.0 & 4x4 CAT — 1988 to 1990

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT & 4x4: 0.75
Cooling system	litres	7.0
Fuel tank	litres	68. 4x4: 70

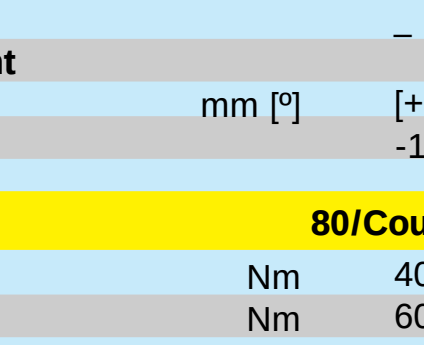
Notes and Illustrations

[1]**[E 91 RON], but reduced engine output**
[2]**Also 205/60x15: 205/50x15**
[3]**205/50x15: 2.3 / 2.3**
[4]**PAS M14: 120 + 90°. PAS M16: 200 + 90°**

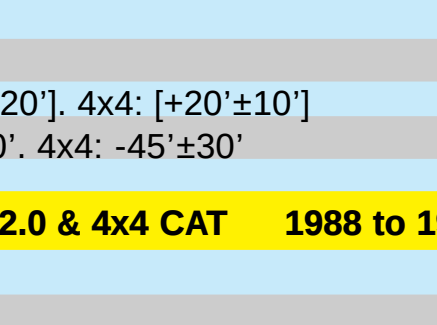
1: Idle speed 2: CO / Mixture



1984 cm³, 8V



1984 cm³, 8V



KE-Motronic, 3A