

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 Calibra 2.0 16V & 4x4 1990 to 1995

Type	C20XE DOHC 16V 110kW 91/441/EC	
Capacity (cm ³) / number of cylinders	1998 / 4	
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	1.5
Oil temperature	°C	≥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	°C	91 to 107
Radiator cap pressure	bar	1.20 to 1.35

Fuel system Calibra 2.0 16V & 4x4 1990 to 1995

Idle speed - manual [auto]	rpm	860 to 1020
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	[≤0.3]
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	M2.5-Motronic. 93 ▶: M2.8	
Main jet / needle	_	
Injection pressure	bar	2.0 to 2.2 ¹
Pump pressure	bar	2.3 to 2.7 ²
Octane rating	RON	95[U]

Ignition system Calibra 2.0 16V & 4x4 1990 to 1995

Type	DME Motronic ³	
Ignition coil	Bosch	
Primary resistance	ohms	0.2 to 0.34
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Bosch	
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	14 to 18 BTDC @ idle N/A
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	Bosch/Champion ⁴	
Type	FR7DC-2 / RC9MCC	
Electrode gap	mm	0.70 to 0.80

Electrical system Calibra 2.0 16V & 4x4 1990 to 1995

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm	14.5±0.25 / 70, 90 / 3500	
Starter motor current / voltage - cranking	A / V	35 to 80 / 10.6 to 11.5
- locked	A / V	350 to 820 / 4.5 to 8.6

Running gear Calibra 2.0 16V & 4x4 1990 to 1995

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	195/60x15: 205/55x15:195/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.4 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-15'±10']
Camber		-40'±45' L
Castor		+2°±1° L
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-22'+30'-20']
Camber		-2°17'±41'

Torque wrench settings Calibra 2.0 16V & 4x4 1990 to 1995

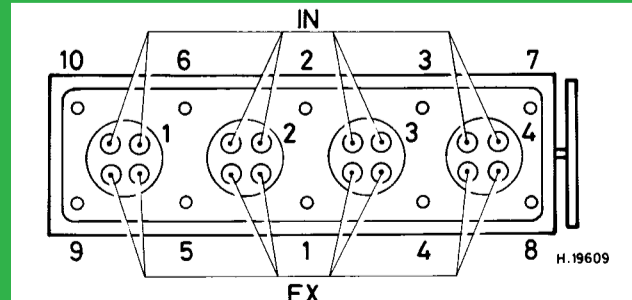
Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	35 + 45° +15° N
Main bearings	Nm	50 + 45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 + 30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM ⁵
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities Calibra 2.0 16V & 4x4 1990 to 1995

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.9. Transfer: 0.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.2
Fuel tank	litres	65. 91 ▶: 63

Notes and Illustrations

- ¹M2.8-Motronic: 2.2 to 2.7
- ²M2.8-Motronic: 3.0 to 3.5
- ³93 ▶: M2.8-Motronic: DIS with dual coils
- ⁴93 ▶: Bosch FR8LDC
- ⁵4x4: 50 + 60° +15°



1998 cm³, 16V