

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

## Engine and cooling system Corsa-B 1.6 GSi 1993 to 1995

Type		C16XE DOHC 16V 80kW 91/441/EEC
Capacity (cm <sup>3</sup> ) / number of cylinders		1598 / 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	88 to 106
Radiator cap pressure	bar	1.2 to 1.4

## Fuel system Corsa-B 1.6 GSi 1993 to 1995

Idle speed - manual [auto]	rpm	820 to 930 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5 WSM
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		GM
Type / ref		Multec-S MPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0
Octane rating	RON	95[U]

## Ignition system Corsa-B 1.6 GSi 1993 to 1995

Type		Multec-DIS
Ignition coil		_
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 840 to 1000 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
Type		FR8LDC
Electrode gap	mm	0.70 to 0.80

## Electrical system Corsa-B 1.6 GSi 1993 to 1995

Battery	V / CC / RC	12 / 210 / 44Ah or / 255 / 55
Alternator voltage / full load current / engine rpm		14.7±0.5 / 70, 100 / 3500
Starter motor current / voltage - cranking	A / V	70 / 11.5 (no load)
- locked	A / V	450 to 650 / 5.6

## Running gear Corsa-B 1.6 GSi 1993 to 1995

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	0.5 above rivets
<b>Tyres</b>		
Saloon	Size	185/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	_
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±1.0 L
Camber		-55'±45' L
Castor		+1°55'±1° L
King pin inclination		_
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0+3.0-1.5
Camber		-1°30'±30' L

## Torque wrench settings Corsa-B 1.6 GSi 1993 to 1995

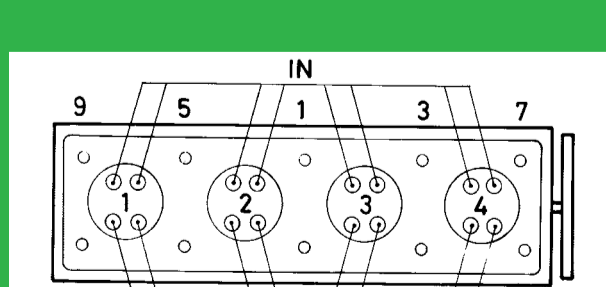
Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+90°
Big-end bearings	Nm	25 <sup>1</sup>
Main bearings	Nm	50 +45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 +30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs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

## Capacities Corsa-B 1.6 GSi 1993 to 1995

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	46

## Notes and Illustrations

<sup>1</sup>40mm bolt: 25 +30° N



1598 cm<sup>3</sup>, DOHC 16V