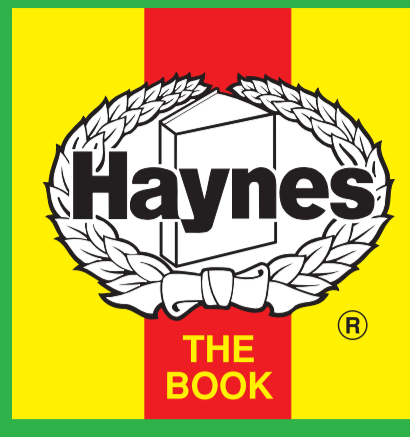


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Cavalier / Vectra-A 1.6i 1995

Type		C16NZ/NZ2 <sup>1</sup> SOHC 8V 55kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.2 /
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	92
Radiator cap pressure	bar	1.2 to 1.5

### Fuel system Cavalier / Vectra-A 1.6i 1995

Idle speed - manual [auto]	rpm	830 to 990
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	≤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 CFI
Main jet / needle		—
Injection pressure	bar	0.76
Pump pressure	bar	—
Octane rating	RON	95[U]

### Ignition system Cavalier / Vectra-A 1.6i 1995

Type		MSTS-i
Ignition coil		—
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	—
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch
Type		FR8LDC
Electrode gap	mm	0.7 to 0.8

### Electrical system Cavalier / Vectra-A 1.6i 1995

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

### Running gear Cavalier / Vectra-A 1.6i 1995

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—

<b>Tyres</b>		
Saloon	Size	165x13: 175/70x14: 195/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	—

### Front suspension / wheel alignment

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

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-10'±30' to 20'
Camber		-1°40'±30'

### Torque wrench settings Cavalier / Vectra-A 1.6i 1995

Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+60 <sup>o2</sup>
Cylinder head - stage 3	Nm	+60 <sup>o2</sup>
- stage 4	Nm	+60 <sup>o2</sup>
Big-end bearings	Nm	28 <sup>3</sup> . 40mm bolt: 25 +30°
Main bearings	Nm	50 +45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 +30° +15° N <sup>4</sup>
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

### Capacities Cavalier / Vectra-A 1.6i 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 [AT: 5.8]. NZ2: 7.2 [7.1]
Fuel tank	litres	—

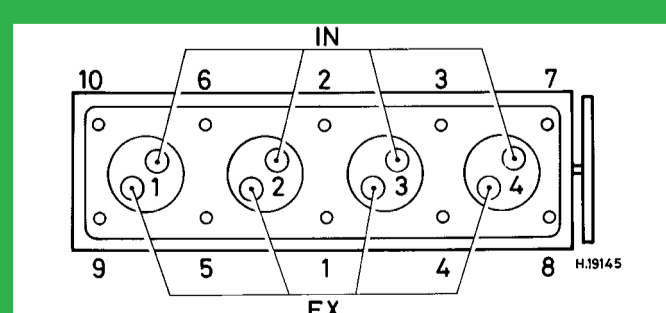
### Notes and Illustrations

<sup>1</sup>NZ2: Vauxhall only

<sup>2</sup>NZ2: +90°

<sup>3</sup>NZ2: 35 +45° +15° N

<sup>4</sup>NZ2: 65 +30° +15° N



1598 cm<sup>3</sup>, 8V