

VAUXHALL/OPEL

Vectra-B 1.6i 16V

1995 to 1997

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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

Vectra-B 1.6i 16V

1995 to 1997

Type		X16XEL 16V 74kW 94/12/EC
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	10.5 / 13.0 to 15.0
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

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Idle speed - manual [auto]	rpm	770 to 930 N/A
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	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_GM
Type / ref		Multec-S SEFI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

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Type		DIS
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	Computer control WSM
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		_/Champion
Type		RC9YCC
Electrode gap	mm	0.90

Electrical system

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1995 to 1997

Battery	V / CC / RC	12 / 44Ah
Alternator voltage / full load current / engine rpm		70A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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

Tyres		
Saloon	Size	175/70x14:185/70x14:195/65x15
Estate / Van	Size	185/70x14: 195/65x15
Pressure - front / rear - Saloon	bar	2.2 / 2.2: 195/65: 1.9 / 1.9
- Estate / Van	bar	Refer to vehicle

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	(-3°50'±1°)
Camber		-1°05'±45'
Castor		—
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	(0°16'±10°)
Camber		-1°10'±35'

Torque wrench settings

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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 +30° N
Main bearings	Nm	50 +45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 +30° +15° N (60)
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

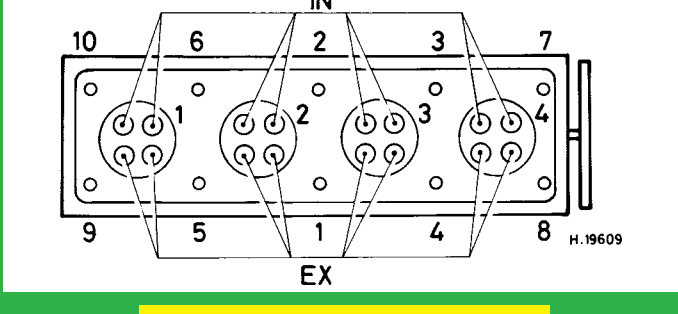
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1995 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	6.7
Fuel tank	litres	60

Notes and Illustrations

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1598 cm³, DOHC 16V