

VAUXHALL/OPEL

Vectra-B 1.8i 16V

1995 to 1997

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Vectra-B 1.8i 16V

1995 to 1997

Type		X18XE 16V 85kW 94/12/EC
Capacity (cm ³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	10.8 / 12.0 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	670 to 10.0 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 WSM
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		Simtec 56.5 MPI
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		RCY9CC
Electrode gap	mm	0.7 to 0.8

Electrical system

Vectra-B 1.8i 16V

1995 to 1997

Battery	V / CC / RC	12 / 44Ah
Alternator voltage / full load current / engine rpm		—
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

Tyres		
Saloon	Size	175/70x14:185/70x14:195/65x15
Estate / Van	Size	185/70x14: 195/65x15
Pressure - front / rear - Saloon	bar	2.4 / 2.4: 195/65: 2.1 / 2.1
- 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	35 +45° +15° N
Main bearings	Nm	30 +45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 +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	4.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	60

Notes and Illustrations

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1796 cm³, DOHC 16V