

VAUXHALL/OPEL

Vectra-B 2.0i 16V

1995 to 1997

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system		Vectra-B 2.0i 16V	1995 to 1997
Type		X20XEV 16V 100kW 94/12/EC	
Capacity (cm ³) / number of cylinders		1998 / 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		Vectra-B 2.0i 16V	1995 to 1997
Idle speed - manual [auto]	rpm	670 to 1030 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		Vectra-B 2.0i 16V	1995 to 1997
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	0.7 to 0.8	

Electrical system		Vectra-B 2.0i 16V	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		Vectra-B 2.0i 16V	1995 to 1997
Brakes -			
Front (min. friction material thickness)	mm	7.0 with backing	
Rear (min. friction material thickness)	mm	7.0 with backing	

Tyres			
Saloon	Size	195/65x15: 205/60x15	
Estate / Van	Size	195/65x15: 205/60x15	
Pressure - front / rear - Saloon	bar	2.0 / 2.2	
- 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		—	

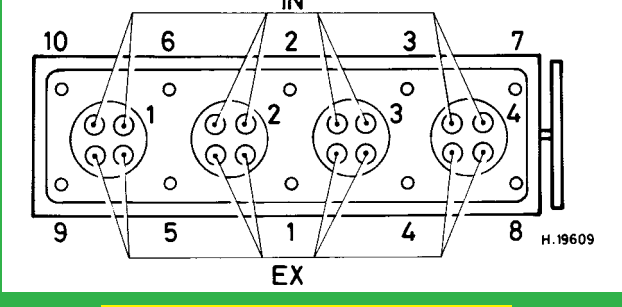
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	(0°16'±10°)	
Camber		-1°10'±35'	

Torque wrench settings		Vectra-B 2.0i 16V	1995 to 1997
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		Vectra-B 2.0i 16V	1995 to 1997
Engine oil & filter	litres	5.0	
Gearbox - 4-speed [5-speed]	litres	1.9	
Automatic transmission - refill	litres	3.0	
Final drive	litres	WT	
Cooling system	litres	7.2	
Fuel tank	litres	60	

Notes and Illustrations

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1998 cm³, 16V