

VAUXHALL/OPEL

Vectra-B 2.5i V6 24V

1995 to 1997

Engine & Cooling

Fuel

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Automotive Technical
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Engine and cooling system	Vectra-B 2.5i V6 24V	1995 to 1997
Type	X25XE V6 24V 125kW 94/12/EC	
Capacity (cm ³) / number of cylinders	2498 / 6	
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	1-2-3-4-5-6	
No 1 cylinder position	FR	
Thermostat opening temperature	°C	92
Radiator cap pressure	bar	1.2 to 1.5

Fuel system	Vectra-B 2.5i V6 24V	1995 to 1997
Idle speed - manual [auto]	rpm	570 to 730 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	_ Bosch	
Type / ref	M2.8.3-Motronic MPI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system	Vectra-B 2.5i V6 24V	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 2.5i V6 24V	1995 to 1997
Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm	70A	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear	Vectra-B 2.5i V6 24V	1995 to 1997
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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	195/65x15: 205/60x15
Estate / Van	Size	195/65x15: 205/60x15
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- 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 2.5i V6 24V	1995 to 1997
Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	35 +45° +15° N
Main bearings	Nm	50 +60° +15° N
Clutch cover	Nm	28
Flywheel [driveplate]	Nm	65 +30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities	Vectra-B 2.5i V6 24V	1995 to 1997
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	9.7
Fuel tank	litres	60

Notes and Illustrations

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2498 cm³, 24V