

VAUXHALL/OPEL

Vectra-B 1.6i

1995 to 1997

Engine & Cooling

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Automotive Technical  
DATA BOOK

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Engine and cooling system

Vectra-B 1.6i

1995 to 1997

|                                                   |     |                          |
|---------------------------------------------------|-----|--------------------------|
| Type                                              |     | X16SZR 8V 52 kW 94/12/EC |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1598 / 4                 |
| Compression ratio / pressure                      | bar | 10.0 / 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 1.6i

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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 SPI     |
| 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                            |                    | RC7YCC               |
| Electrode gap                   | mm                 | 0.8                  |

Electrical system

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|                                                     |             |           |
|-----------------------------------------------------|-------------|-----------|
| 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 | — |
| Rear (min. friction material thickness)  | mm | — |

|                                  |      |                  |
|----------------------------------|------|------------------|
| Tyres                            |      |                  |
| Saloon                           | Size | 175/70x14        |
| Estate / Van                     | Size | 175/70x14        |
| Pressure - front / rear - Saloon | bar  | 2.2 / 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

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|                         |    |                     |
|-------------------------|----|---------------------|
| Cylinder head - stage 1 | Nm | 25 N                |
| - stage 2               | Nm | +60°                |
| Cylinder head - stage 3 | Nm | +60°                |
| - stage 4               | Nm | +60°                |
| 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                  |

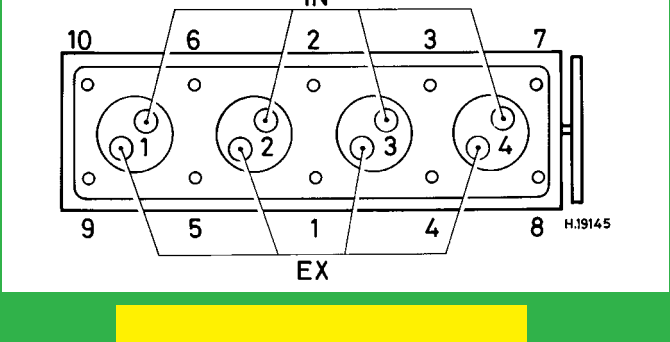
Capacities

Vectra-B 1.6i

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|                                 |        |     |
|---------------------------------|--------|-----|
| 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 | 6.1 |
| Fuel tank                       | litres | 60  |

Notes and Illustrations



1598 cm³, 8V