

VAUXHALL/OPEL

Omega-B 2.5i

1994 to 1997

Engine & Cooling

Fuel

Ignition

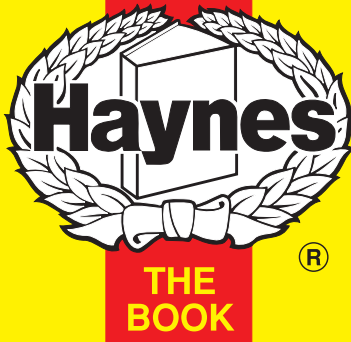
Electrical

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

Omega-B 2.5i

1994 to 1997

Type		X25XE 24V 125kW 94/12/EC
Capacity (cm ³) / number of cylinders		2498 / 6
Compression ratio / pressure	bar	10.8 / _
Oil pressure	bar	1.2
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

Omega-B 2.5i

1994 to 1997

Idle speed - manual [auto]	rpm	570 to 730
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		_ Bosch
Type / ref		M2.8.1-Motronic ¹
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Omega-B 2.5i

1994 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 N/A
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		Bosch
Type		FR8LDC
Electrode gap	mm	0.7 to 0.8

Electrical system

Omega-B 2.5i

1994 to 1997

Battery	V / CC / RC	_
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / 100, 120
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Omega-B 2.5i

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	6.0 with backing

Tyres		
Saloon	Size	205/65x15: 225/55x16
Estate / Van	Size	205/65x15: 225/55x16
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.0 / 2.2

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[10'±10']
Camber		-1°40'±45'
Castor		5°40'±1° Est: 5°±1°
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+0°20'±10'
Camber		-1°50'±40' Est: -1°40'

Torque wrench settings

Omega-B 2.5i

1994 to 1997

Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°, +15°
Big-end bearings	Nm	35 +45° +15° N
Main bearings	Nm	WSM
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	_
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

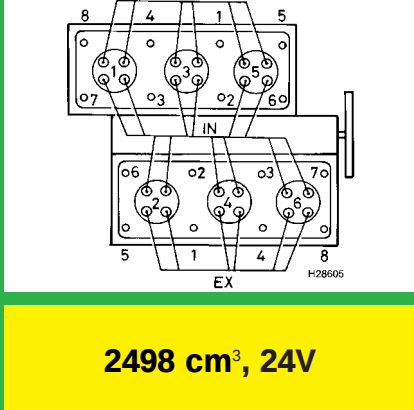
Omega-B 2.5i

1994 to 1997

Engine oil & filter	litres	5.75
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	4.4
Final drive	litres	1.0
Cooling system	litres	9.7 [AT: 9.5]
Fuel tank	litres	75

Notes and Illustrations

¹97 ▶: M2.8.3-Motronic



2498 cm³, 24V