

VAUXHALL/OPEL

Cavalier / Vectra-A 1.6i

1995

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system		Cavalier / Vectra-A 1.6i	1995
Type		C16NZ/NZ2 ¹ SOHC 8V 55kW	
Capacity (cm ³) / number of cylinders		1598 / 4	
Compression ratio / pressure	bar	9.2 /	
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		Cavalier / Vectra-A 1.6i	1995
Idle speed - manual [auto]	rpm	830 to 990	
Fast idle speed - manual [auto]	rpm	—	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3	
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 CFI	
Main jet / needle		—	
Injection pressure	bar	0.76	
Pump pressure	bar	—	
Octane rating	RON	95[U]	

Ignition system		Cavalier / Vectra-A 1.6i	1995
Type		MSTS-i	
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	—	
V = Vacuum NV = No Vacuum		—	
Total ignition advance	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Centrifugal check.	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Vacuum range check	mbar	—	
Maximum vacuum advance	° Crankshaft	—	
Spark plugs		Bosch	
Type		FR8LDC	
Electrode gap	mm	0.7 to 0.8	

Electrical system		Cavalier / Vectra-A 1.6i	1995
Battery	V / CC / RC	—	
Alternator voltage / full load current / engine rpm		—	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	

Running gear		Cavalier / Vectra-A 1.6i	1995
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Brakes -			
Front (min. friction material thickness)	mm	—	
Rear (min. friction material thickness)	mm	—	

Tyres			
Saloon	Size	165x13: 175/70x14: 195/60x14	
Estate / Van	Size	—	
Pressure - front / rear - Saloon	bar	2.0 / 1.8	
- Estate / Van	bar	—	

Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[-15'±10']	
Camber		-40'±45'	
Castor		2°±1°	
King pin inclination		—	

Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	-10'±30' to 20'	
Camber		-1°40'±30'	

Torque wrench settings		Cavalier / Vectra-A 1.6i	1995
Cylinder head - stage 1	Nm	25 N	
- stage 2	Nm	+60° ²	
Cylinder head - stage 3	Nm	+60° ²	
- stage 4	Nm	+60° ²	
Big-end bearings	Nm	28 ³ . 40mm bolt: 25 +30°	
Main bearings	Nm	50 +45° +15° N	
Clutch cover	Nm	15	
Flywheel [driveplate]	Nm	35 +30° +15° N ⁴	
Front hubs	Nm	WSM	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	110	
Spark plugs	Nm	25	

Capacities		Cavalier / Vectra-A 1.6i	1995
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	5.6 [AT: 5.8]. NZ2: 7.2 [7.1]	
Fuel tank	litres	—	

Notes and Illustrations

¹NZ2: Vauxhall only

²NZ2: +90°

³NZ2: 35 +45° +15° N

⁴NZ2: 65 +30° +15° N

