

VAUXHALL/OPEL

Cavalier / Vectra-A 2.0i 16V

1995

Engine & Cooling

Fuel

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Automotive Technical
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Engine and cooling system

Cavalier / Vectra-A 2.0i 16V

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Type		X20XEV DOHC 16V 100kW 94/12/EC
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.8 /
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 to 107
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	670 to 1030
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		Simtec 56.1
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

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Type		Electronic
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	N/A
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

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Battery	V / CC / RC	—
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	195/60x14: 195/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.5: 2.4 / 2.3: 2.2
- 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 [°]	[-25'+30'-20']
Camber		-2°10'±40'

Torque wrench settings

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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	—
Main bearings	Nm	—
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

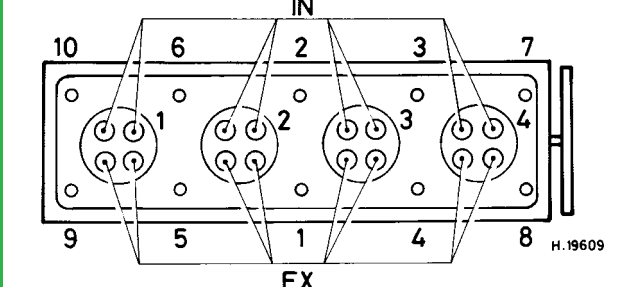
Capacities

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Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	7.2
Fuel tank	litres	61

Notes and Illustrations



1998 cm³, 16V