

VAUXHALL/OPEL

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

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

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Type		C20NE SOHC. 85kW 91/441/EEC
Capacity (cm ³) / number of cylinders		1998 / 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	91 to 107
Radiator cap pressure	bar	1.20 to 1.35

Fuel system

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Idle speed - manual [auto]	rpm	720 to 880. 4x4: 890 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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		ML4.1-Motronic. 90 ►: M1.5
Main jet / needle		_
Injection pressure	bar	2.3 to 2.7 ¹
Pump pressure	bar	3.1 to 3.3 ²
Octane rating	RON	95[U]

Ignition system

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	8 to 12 BTDC @ idle N/A
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° 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/Champion
Type		WR8DC / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.6 to 14.0 / 70, 90 / 3000
Starter motor current / voltage - cranking	A / V	35 to 80 / 10.6 to 11.5
- locked	A / V	350 to 820 / 4.5 to 8.6

Running gear

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	195/60x14: 195/60x15 ³
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.4 / 2.2: 2.1 / 1.9
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-10'+30'-20"] ⁴
Camber		-1°40'±30" ⁵

Torque wrench settings

Cavalier/Vectra-A 2.0i CAT

1988 to 1995

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	35 + 45° +15° N
Main bearings	Nm	50 + 45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 + 30° +15° N [65]
Front hubs	Nm	WSM
Rear hubs	Nm	WSM ⁶
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

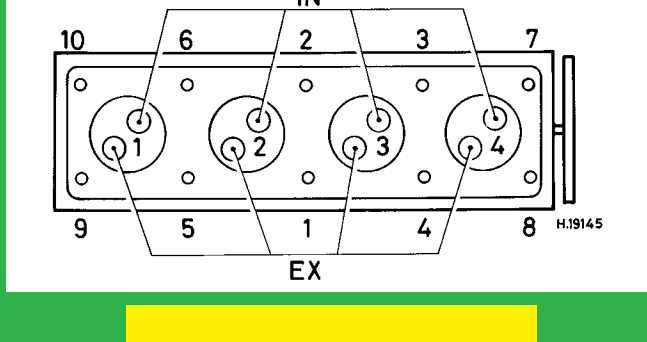
Cavalier/Vectra-A 2.0i CAT

1988 to 1995

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.9. Transfer: 0.6
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	4x4 rear: 0.8
Cooling system	litres	7.2 [AT: 7.1]
Fuel tank	litres	61. 4x4: 65 ⁷

Notes and Illustrations

- ¹M1.5-Motronic: 1.8 to 2.2
- ²M1.5-Motronic: 2.5 to 3.0
- ³205/55x15 (4x4 only)
- ⁴4x4: +18'+30'-20'
- ⁵4x4: -20'±40'
- ⁶4x4: 50 + 60° +15°
- ⁷91 ►: 63



1998 cm³, 8V