

VAUXHALL/OPEL

Nova / Corsa-A 1.2i CAT

1990 to 1993

Engine & Cooling

Fuel

Ignition

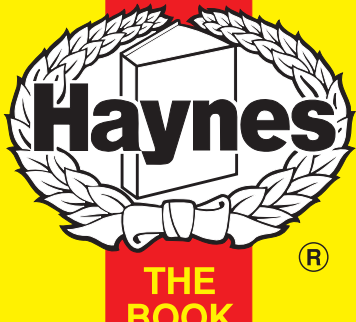
Electrical

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Automotive Technical

DATA BOOK

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Engine and cooling system

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Type		C12NZ SOHC. 33kW. US83
Capacity (cm ³) / number of cylinders		1196 / 4
Compression ratio / pressure	bar	9.1 / _
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 1.4

Fuel system

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Idle speed - manual [auto]	rpm	830 to 990 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5 WSM
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-ZE CFI
Main jet / needle		_
Injection pressure	bar	0.76
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

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Type		Multec-MSTS-h
Ignition coil		Delco
Primary resistance	ohms	0.43
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		AC Delco
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 830 to 990 N/A ¹
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

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Battery	V / CC / RC	12 / 210 / 65 or / 175 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.75 / 55 / 3500
Starter motor current / voltage - cranking	A / V	50 / 11.5 (no load)
- locked	A / V	360 to 440 / 7.8 to 8.6

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	0.5 above rivets

Tyres		
Saloon	Size	145x13: 155/70x13: 165/70x13
Estate / Van	Size	145x13: 155/70x13
Pressure - front / rear - Saloon	bar	1.7 / 1.7
- Estate / Van	bar	1.7 / 1.7

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-15' to +5']
Camber		-30' to +1° L
Castor		+45' to 2°45' L
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-5' to +40']
Camber		-40' to -1°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	28 ³
Main bearings	Nm	50 +45° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 +30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

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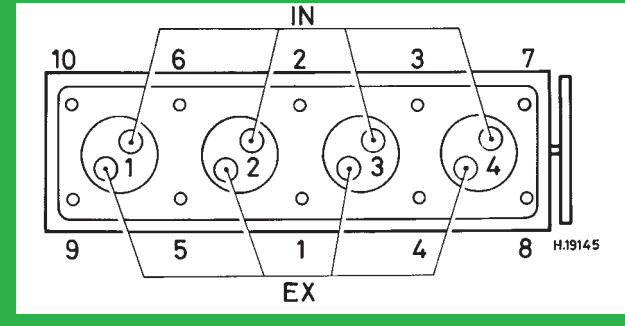
1990 to 1993

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	1.7 [1.8]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.1
Fuel tank	litres	42

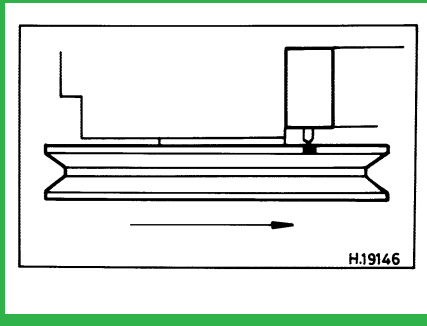
Notes and Illustrations

¹92 ►: 10 BTDC @ 830 to 990

³40mm bolt: 25 +30° N



1196 cm³, SOHC



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