

VAUXHALL/OPEL

Frontera 2.0i

1991 to 1995

Engine & Cooling

Fuel

Ignition

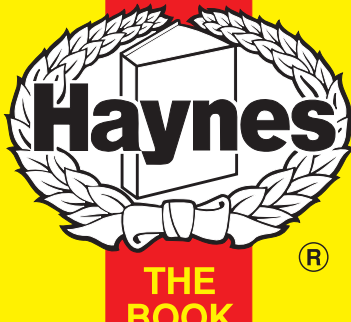
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		C20NE SOHC. 85kW. US83
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	1.5
Oil temperature	°C	≥70
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	720 to 880
Fast idle speed - manual [auto]	rpm	2800 to 3200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤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		Motronic M1.5
Main jet / needle		_
Injection pressure	bar	2.5
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

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Type		DME Motronic
Ignition coil		Bosch 0 221 122 369
Primary resistance	ohms	0.72±0.04
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 to 12 BTDC @ idle N/A
V = Vacuum NV = No Vacuum		_
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		AC/Champion
Type		CR42XLS / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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Battery	V / CC / RC	12/55Ah
Alternator voltage / full load current / engine rpm		13.7 to 14.5 / 70, 90 / 2000
Starter motor current / voltage - cranking	A / V	40 to 75 / 10.6 to 11.5
- locked	A / V	400 to 600 / 7.0 to 12.0

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	_
Estate / Van	Size	225/75x15:255/75x15:245/70x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	1.7 / 1.7

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber		+30'±1°
Castor		+2°10'±45'
King pin inclination		+10°±1°

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

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	35 + 45° N
Main bearings	Nm	60 + 40° to 50° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	100. Alloy: 120
Spark plugs	Nm	20

Capacities

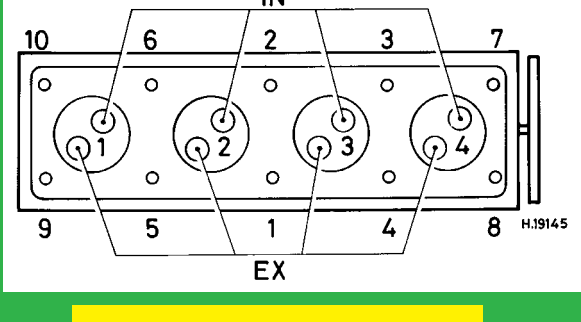
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Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	4.4
Automatic transmission - refill	litres	_
Final drive	litres	Front: 0.9 ¹
Cooling system	litres	7.2
Fuel tank	litres	80

Notes and Illustrations

¹Rear: 2.4. LSD: 1.9



1998 cm³, 8V