

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemNiva 1.7i1996 to 1997

Type	SOHC 8V 59kW	
Capacity (cm ³) / number of cylinders	1690 / 4	
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[3.5 to 4.4]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.14 to 0.16
Valve clearance - exhaust	mm	0.14 to 0.16
Firing order	1-3-4-2	
No 1 cylinder position	F	
Thermostat opening temperature	°C	80 or 83
Radiator cap pressure	bar	0.50

Fuel systemNiva 1.7i1996 to 1997

Idle speed - manual [auto]	rpm	780±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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	GMP4 SPI	
Main jet / needle		
Injection pressure	bar	1.9
Pump pressure	bar	
Octane rating	RON	95[U]

Ignition systemNiva 1.7i1996 to 1997

Type	Direct 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	10 BTDC @ 780±50
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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	
Type	R43XLS	
Electrode gap	mm	1.10

Electrical systemNiva 1.7i1996 to 1997

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm	13.7 to 14.4 / 42 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	

Running gearNiva 1.7i1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	_
Estate / Van	Size	175x16: 185x15
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	1.8 / 1.7

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 3.0
Camber	-15'±15'	
Castor	+3°30'±30'	
King pin inclination	+11°30'±30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		

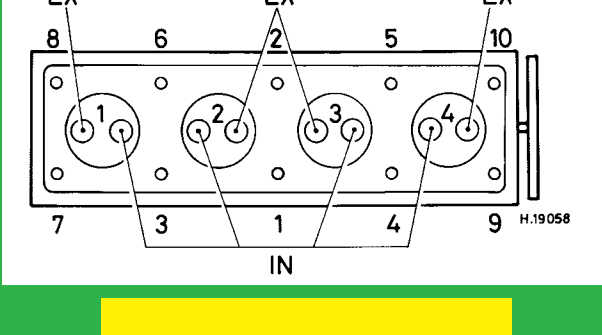
Torque wrench settingsNiva 1.7i1996 to 1997

Cylinder head - stage 1	Nm	39. Bolt 11: 15
- stage 2	Nm	113. Bolt 11: 37
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	43 to 54
Main bearings	Nm	69 to 84
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	70 to 86
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	37

CapacitiesNiva 1.7i1996 to 1997

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.55. Transfer: 0.75
Automatic transmission - refill	litres	_
Final drive	litres	Front: 1.5. Rear: 1.3
Cooling system	litres	10.6
Fuel tank	litres	42

Notes and Illustrations



1690 cm³