

Engine & Cooling

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Automotive Technical
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Engine and cooling systemAlmera 2.0 GTi (N15)1996 to 1997

Type		SR20DE DOHC 16V 105kW
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / ≥10.8
Oil pressure	bar	≤0.78 (3.14 to 3.92)
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		TCE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.8 to 1.0

Fuel systemAlmera 2.0 GTi (N15)1996 to 1997

Idle speed - manual [auto]	rpm	700±50. A/C: 850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2 N/A
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		—Nissan
Type / ref		ECCS MPI
Main jet / needle		—
Injection pressure	bar	2.35
Pump pressure	bar	2.94
Octane rating	RON	95[U]

Ignition systemAlmera 2.0 GTi (N15)1996 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.5 to 1.0
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	15°±2° BTDC @ 700
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		NGK
Type		BKR5EY-11
Electrode gap	mm	1.00 to 1.10

Electrical systemAlmera 2.0 GTi (N15)1996 to 1997

Battery	V / CC / RC	12 / 33Ah
Alternator voltage / full load current / engine rpm		/ 80A /
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearAlmera 2.0 GTi (N15)1996 to 1997

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

Tyres		
Saloon	Size	195/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0 to +4.0
Camber		-1°20' to +10' N/A
Castor		0°40' to 2°10' N/A
King pin inclination		14°00' to 15°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-3.0 to +5.0
Camber		-1°45' to 0°15' N/A

Torque wrench settingsAlmera 2.0 GTi (N15)1996 to 1997

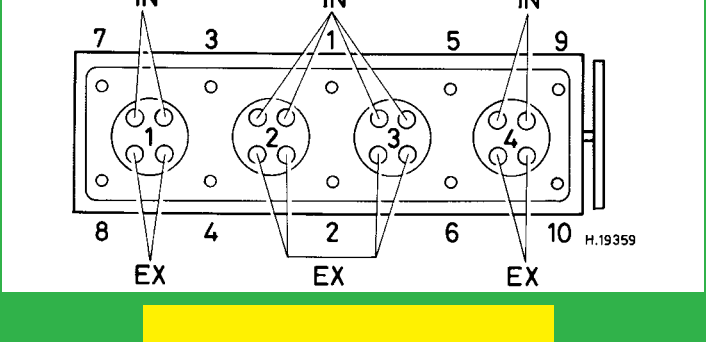
Cylinder head - stage 1	Nm	39 ¹
- stage 2	Nm	78, slacken
Cylinder head - stage 3	Nm	34 to 44
- stage 4	Nm	+90° +90°
Big-end bearings	Nm	15 +60° to 65°
Main bearings	Nm	32 to 38 +45° to 50°
Clutch cover	Nm	29 to 39
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	196 to 275
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesAlmera 2.0 GTi (N15)1996 to 1997

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	3.7 to 3.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.1
Fuel tank	litres	50

Notes and Illustrations

¹Bolt shank length ≤158 mm



1998 cm³ 16V