

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemAlmera 1.6 (N15)1996 to 1997

Type		GA16DE DOHC 16V
Capacity (cm ³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.8 / ≥11.28
Oil pressure	bar	≥0.6 (≥2.45)
Oil temperature	°C	80
Valve clearance - inlet	mm	0.21 to 0.49 H
Valve clearance - exhaust	mm	0.30 to 0.58 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemAlmera 1.6 (N15)1996 to 1997

Idle speed - manual [auto]	rpm	700±50 [800±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	2.45
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemAlmera 1.6 (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	10±2 BTDC @ 700±50 [800]
V = Vacuum NV = No Vacuum		V
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		BKR5E
Electrode gap	mm	0.80 to 0.90

Electrical systemAlmera 1.6 (N15)1996 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 70
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearAlmera 1.6 (N15)1996 to 1997

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

Tyres		
Saloon	Size	175/65x14: 185/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.1. 185/65: 2.3 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.0 to 4.0
Camber		-1°20' to 0°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 1.6 (N15)1996 to 1997

Cylinder head - stage 1	Nm	29
- stage 2	Nm	59, slacken
Cylinder head - stage 3	Nm	29 +50° to 55°
- stage 4	Nm	Bolts 11 to 15: 6.3 to 8.3
Big-end bearings	Nm	13 to 15 +30° to 45° N oiled
Main bearings	Nm	46 to 52 oiled
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93 (93 to 103)
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

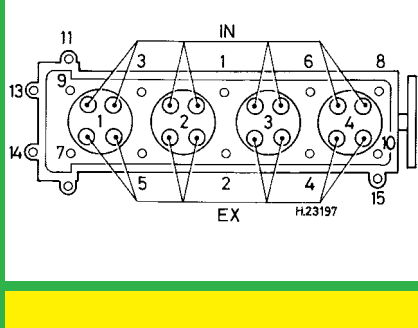
CapacitiesAlmera 1.6 (N15)1996 to 1997

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.9 to 3.2
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	5.9 (AT: 6.4)
Fuel tank	litres	50

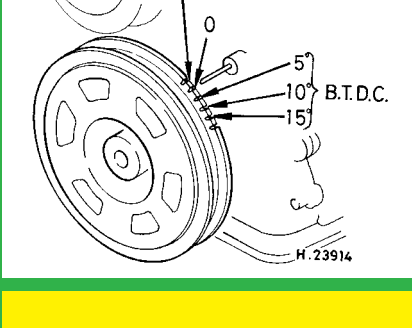
Notes and Illustrations



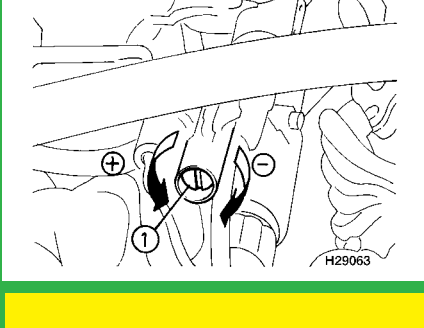
1: Idle speed 2: CO / Mixture



1597 cm³ 16V



1597 cm³ 16V



ECCS MPI