

LADA

Niva

1979 to 1996

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Niva1979 to 1996

Type	2106 or 2121 SOHC 61kW	
Capacity (cm³) / number of cylinders	1568 / 4	
Compression ratio / pressure	bar	8.5 / 11.7
Oil pressure	bar	[3.5 to 4.4]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.15
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 system

Niva1979 to 1996

Idle speed - manual [auto]	rpm	850 to 900
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 0.8
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	—	
Type / ref	2103,2107 or 21212-1107010-02	
Main jet / needle	2103:130, 140. Others:112, 150	
Injection pressure	bar	—
Pump pressure	bar	0.23 to 0.30
Octane rating	RON	93[E 95 RON]

Ignition system

Niva1979 to 1996

Type	Contact breaker - CIS	
Ignition coil	—	
Primary resistance	ohms	3.0 to 3.6
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	0.40±0.03
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.20 to 0.25
Rotation	Clockwise	
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	5 to 7 BTDC @ idle
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	16 to 20 @ 3000
	° Crankshaft @ rpm	29 to 33 @ 5500
Vacuum range check	mbar	107 to 213
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs	Champion	
Type	RN9YCC	
Electrode gap	mm	0.60

Electrical system

Niva1979 to 1996

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm	13.9 to 14.5 / 43 / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	500 / 6.5

Running gear

Niva1979 to 1996

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: 195x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 1.7

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.0±1.0
Camber	+30'±20'	
Castor	+3°30'±30'	
King pin inclination	+11°30'	

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

Torque wrench settings

Niva1979 to 1996

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	51
Main bearings	Nm	80
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	69
Spark plugs	Nm	37

Capacities

Niva1979 to 1996

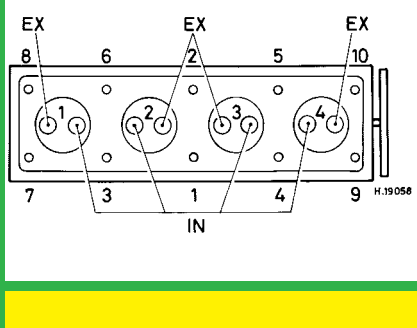
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.4 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Rear: 1.3 ²
Cooling system	litres	10.6
Fuel tank	litres	48. 93 ▶: 42

Notes and Illustrations

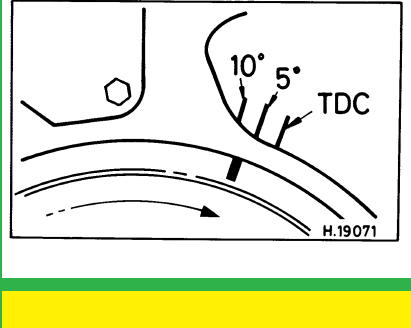
¹Transfer box: 0.75

²Front: 0.9

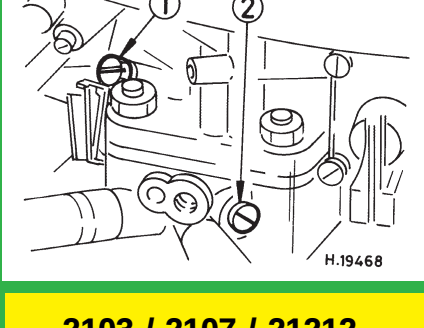
1: Idle speed 2: CO / Mixture



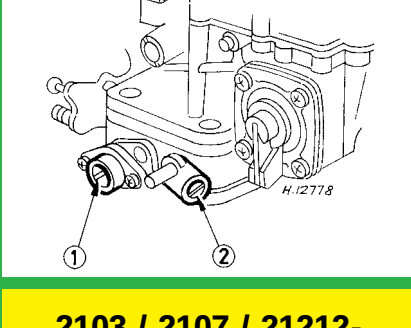
1568 cm³



1568 cm³



2103 / 2107 / 21212-1107010-02



2103 / 2107 / 21212-1107010-02, alternative