

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system Niva 1979 to 1996

Type	2106 or 2121 SOHC 61kW	
Capacity (cm ³) / 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 Niva 1979 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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 Niva 1979 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	° Crankshaft @ rpm	5 to 7 BTDC @ idle
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
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 Niva 1979 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 Niva 1979 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 Niva 1979 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 Niva 1979 to 1996

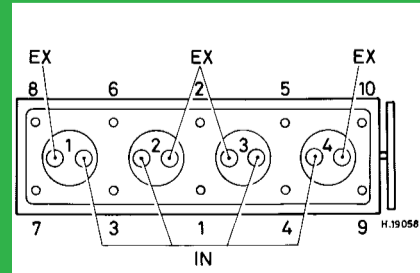
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.4 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Rear: 1.3 ²
Cooling system	litres	10.6
Fuel tank	litres	48. 93 ▶: 42

Notes and Illustrations

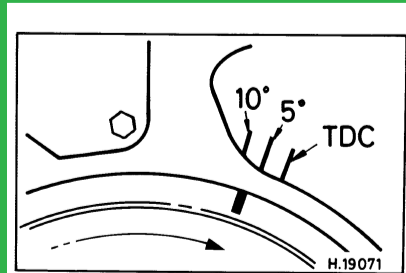
¹Transfer box: 0.75

²Front: 0.9

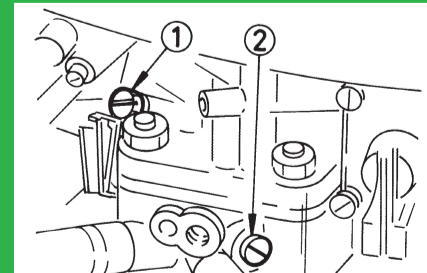
1: Idle speed 2: CO / Mixture



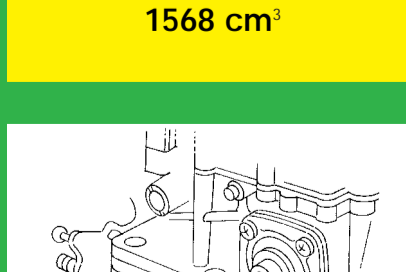
1568 cm³



1568 cm³



2103 / 2107 / 21212-1107010-02



2103 / 2107 / 21212-1107010-02, alternative