

# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system

Prairie 2.4 (M11)	1992 to 1995
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Type		KA24E OHC
Capacity (cm <sup>3</sup> ) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.6 / $\geq 10.1$
Oil pressure	bar	0.78 [4.12-4.81 @ 3000 rpm]
Oil temperature	°C	80*
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	76.5 or 82
Radiator cap pressure	bar	0.78 to 1.0

## Fuel system

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Idle speed - manual [auto]	rpm	700±50
Fast Idle speed - manual [auto]	rpm	—
CO @ Idle speed [3000 rpm] - see page VI	%	≤0.3
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		Nissan ECCS
Main jet / needle		
Injection pressure	bar	2.26
Pump pressure	bar	
Octane rating	RON	91[U]

## Ignition system

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Type		Electronic Nissan
Ignition coil		
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Trmnl 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 @ idle
V = Vacuum    NV = No Vacuum		V
Total Ignition Advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		ZFR5E-11
Electrode gap	mm	1.0 to 1.1

## Electrical system

Prairie 2.4 (M11)	1992 to 1995
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Battery	V / CC / RC	-
Alternator voltage / full load current / engine rpm		-
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

## Running gear

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<b>Brakes -</b>			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	1.5	
<b>Tyres</b>			
Saloon	Size	195/65x14; 195/70x14	
Estate / Van	Size	195/65x14; 195/70x14	
Pressure - front / rear - Saloon	bar	-	
- Estate / Van	bar	-	
<b>Front suspension / wheel alignment</b>			
Toe-in (+) / Toe-out (-)	mm [°]	0.2 to 4.2	
Camber		-30' to 1°	
Castor		-20' to 1°10'	
King pin inclination		13°50' to 15°20'	
<b>Rear suspension / wheel alignment</b>			
Toe-in (+) / Toe-out (-)	mm [°]	12° to 36	
Camber		-50' to 40°	

## Torque wrench settings

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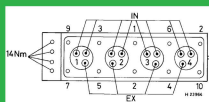
Cylinder head - stage 1	Nm	29
- stage 2	Nm	78 loosen completely
Cylinder head - stage 3	Nm	29
- stage 4	Nm	+ 74 to 83°
Big-end bearings	Nm	14-16 + 60 to 65°
Main bearings	Nm	46-52
Clutch cover	Nm	22-29
Flywheel (driveplate)	Nm	142-152
Front hubs	Nm	235-314
Rear hubs	Nm	186-255
Wheel nuts / bolts	Nm	98-118
Spark plugs	Nm	20-29

## Capacities

Prairie 2.4 (M11)	1992 to 1995
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Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	4.4 to 4.7
Automatic transmission - refill	litres	7.4
Final drive	litres	WT
Cooling system	litres	7.4
Fuel tank	litres	65

## Notes and Illustrations

2389 cm<sup>-1</sup>