

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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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 Prairie 2.4 (M11) 1992 to 1995

Type		KA24E OHC
Capacity (cm ³) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.6/ ≥10.1
Oil pressure	bar	0.78 [4.12-4.81 @ 3000 rpm]
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 or 82
Radiator cap pressure	bar	0.78 to 1.0

Fuel system Prairie 2.4 (M11) 1992 to 1995

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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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 Prairie 2.4 (M11) 1992 to 1995

Type		Electronic
Ignition coil		Nissan
Primary resistance	ohms	—
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 @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° 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

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

Running gear Prairie 2.4 (M11) 1992 to 1995

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

Tyres		
Saloon	Size	—
Estate / Van	Size	195/65x14:195/70x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment

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'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	12' to 36
Camber		-50' to 40'

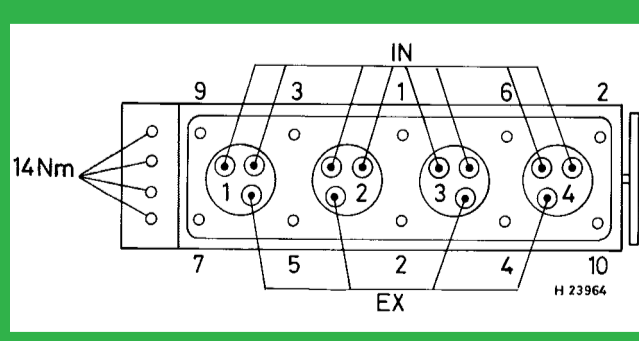
Torque wrench settings Prairie 2.4 (M11) 1992 to 1995

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

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 cm³