

Engine & Cooling

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Automotive Technical
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Engine and cooling systemPrairie 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 systemPrairie 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
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 systemPrairie 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 systemPrairie 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 gearPrairie 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’

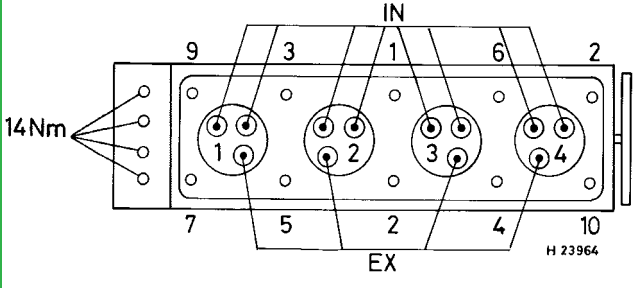
Torque wrench settingsPrairie 2.4 (M11)1992 to 1995

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

CapacitiesPrairie 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