

NISSAN

Prairie 2.0i CAT (M11)

1989 to 1991

Engine & Cooling

Fuel

Ignition

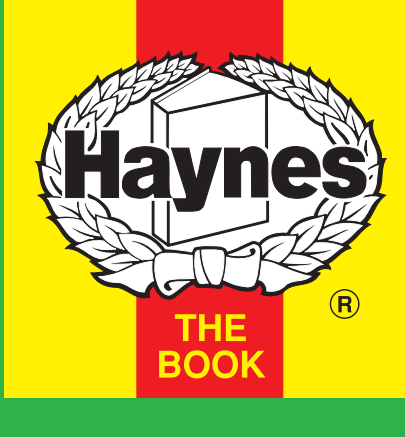
Electrical

Running gear

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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Type		CA20E SOHC
Capacity (cm ³) / number of cylinders		1974 / 4
Compression ratio / pressure	bar	8.5 / ≥8.8
Oil pressure	bar	[3.3 to 5.1]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 0.98

Fuel system

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Idle speed - manual [auto]	rpm	750±50 [850±50]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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		EFI
Main jet / needle		—
Injection pressure	bar	2.6
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

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Type		Electronic
Ignition coil		2x Hanshin. Hitachi
Primary resistance	ohms	0.8 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ idle
V = Vacuum NV = No Vacuum		—
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/Champion
Type		BCPR6ES-11 / RC7YC4 ¹
Electrode gap	mm	1.00 to 1.10

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / 70, 80 / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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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	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.2 to 4.2
Camber		-30' to +1° N/A ²
Castor		-20' to +1°10' N/A ³
King pin inclination		+13°50' to 15°20' N/A ⁴

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to -6.0 ⁵
Camber		-50' to +40' ⁶

Torque wrench settings

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Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	74 to 83
Big-end bearings	Nm	32 to 36
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	235 to 314
Rear hubs	Nm	186 to 255 ⁷
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities

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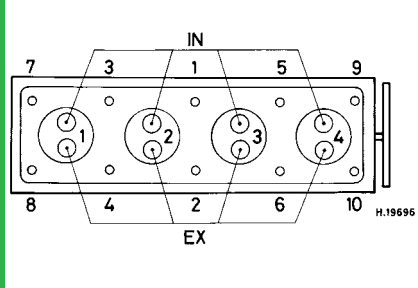
1989 to 1991

Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	4.7. Transfer: 1.6
Automatic transmission - refill	litres	7.4
Final drive	litres	Rear 4x4: 1.8
Cooling system	litres	5.9
Fuel tank	litres	65. 4x4: 60

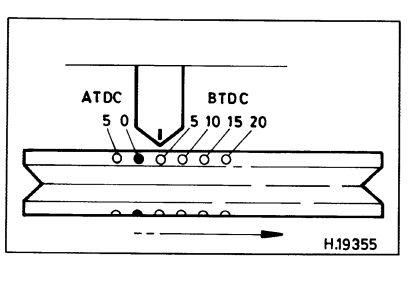
Notes and Illustrations

- ¹Exhaust side: BCPR5ES-11
- ²4x4: -35' to +55' N/A
- ³4x4: -25' to +1°5' N/A
- ⁴4x4: +13°15' to 14°45' N/A
- ⁵4x4: -0.3 to -4.3
- ⁶4x4: -40' to +50'
- ⁷4x4: 235 to 314

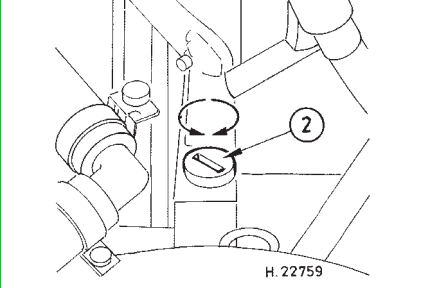
1: Idle speed 2: CO / Mixture



1974 cm³



1974 cm³



Nissan EFI