

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Urvan 2.4i CAT (E24) 1989 to 1994

Type		Z24i SOHC
Capacity (cm <sup>3</sup> ) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.3 / ≥9.0
Oil pressure	bar	[3.2 to 4.6]
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		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 0.98

### Fuel system Urvan 2.4i CAT (E24) 1989 to 1994

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 7.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		TBI ECCS
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	—
Octane rating	RON	90[U]

### Ignition system Urvan 2.4i CAT (E24) 1989 to 1994

Type		Electronic
Ignition coil		2x CIT-72/106. STC-72/106
Primary resistance	ohms	0.84 to 1.02
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±2 BTDC @ 700±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 1 @ 1274 to 1320
	° Crankshaft @ rpm	12 to 15 @ 2650
	° Crankshaft @ rpm	17 to 21 @ 4200
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	° Crankshaft	21
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

### Electrical system Urvan 2.4i CAT (E24) 1989 to 1994

Battery	V / CC / RC	12 / 55 or 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 15.0 / 70 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.0 to 11.5
- locked	A / V	—

### Running gear Urvan 2.4i CAT (E24) 1989 to 1994

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	—
Estate / Van	Size	185x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.8 / 2.8

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber		-5' to +55'
Castor		+30' to 1°30'
King pin inclination		+8°35' to 9°35'

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

### Torque wrench settings Urvan 2.4i CAT (E24) 1989 to 1994

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	15 + 60°
Main bearings	Nm	44 to 54
Clutch cover	Nm	16 to 21
Flywheel [driveplate]	Nm	137 to 157
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	118 to 147
Spark plugs	Nm	20 to 29

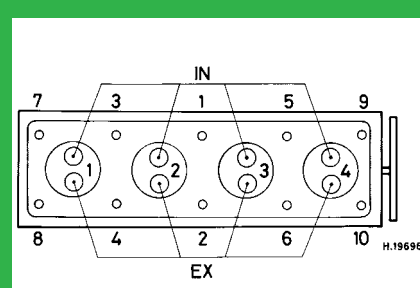
### Capacities Urvan 2.4i CAT (E24) 1989 to 1994

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	7.0
Final drive	litres	2.0
Cooling system	litres	10.0 <sup>1</sup>
Fuel tank	litres	65

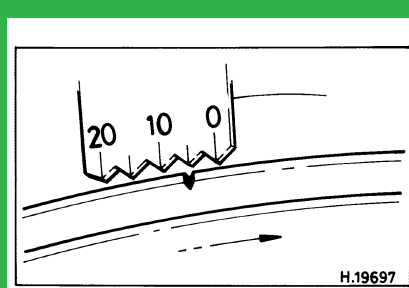
### Notes and Illustrations

<sup>1</sup>Rear heater: 12.0

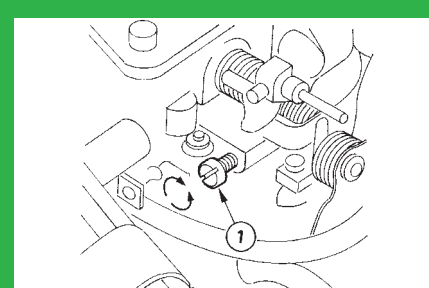
1: Idle speed 2: CO / Mixture



2389 cm<sup>3</sup>



2389 cm<sup>3</sup>



Nissan TBI ECCS