

TOYOTA

Hi-Ace 2.4i

1994 to 1996

Engine & Cooling

Fuel

Ignition

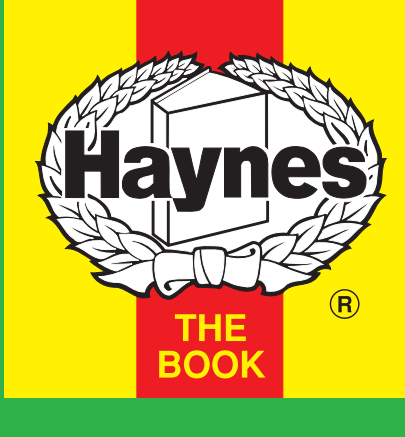
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Hi-Ace 2.4i

1994 to 1996

Type		2RZ-E SOHC 8V 86kW
Capacity (cm ³) / number of cylinders		2438 / 4
Compression ratio / pressure	bar	8.8 / 12.5
Oil pressure	bar	[2.5 to 5.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.25
- exhaust	mm	0.30
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.75 to 1.0

Fuel system

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Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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		— Toyota
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	2.7 to 3.1
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

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Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.4 to 0.5
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	WSM
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/Nippon Denso
Type		BPR5EP11 / P16R
Electrode gap	mm	1.1

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 60A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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

Tyres		
Saloon	Size	—
Estate / Van	Size	195/70x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.8 / 4.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±2.0
Camber		25'±45'
Castor		1°5'±45'
King pin inclination		10°55'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

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Cylinder head - stage 1	Nm	44
- stage 2	Nm	+90°
- stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	29 +90°
Main bearings	Nm	44 +90°
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	88
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	—
Spark plugs	Nm	18

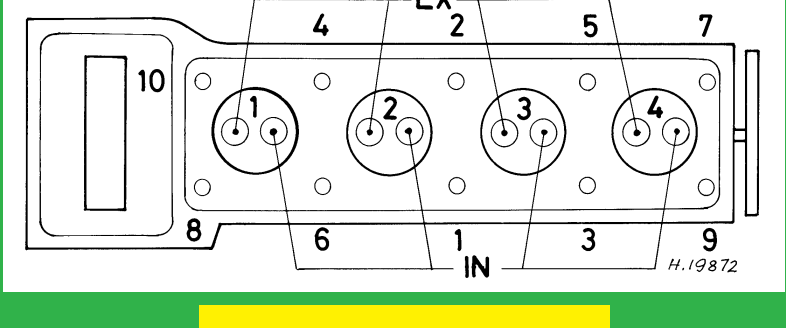
Capacities

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1994 to 1996

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	—
Final drive	litres	1.8
Cooling system	litres	9.0
Fuel tank	litres	70

Notes and Illustrations



2438 cm³