

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 Corolla 1.3 (EE100) 1992 to 1993

Type		2E (OHC)
Capacity (cm <sup>3</sup> ) / number of cylinders		1295 / 4
Compression ratio / pressure	bar	9.5 / ≥9.8
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 H
- exhaust	mm	0.20 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.74 to 1.03

### Fuel system Corolla 1.3 (EE100) 1992 to 1993

Idle speed - manual [auto]	rpm	800±50 [850±50]
Fast idle speed - manual [auto]	rpm	1600
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
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		Aisan
Type / ref		21100-11630 [640] <sup>1</sup>
Main jet / needle		-
Injection pressure	bar	-
Pump pressure	bar	-
Octane rating	RON	91[E 91 RON]

### Ignition system Corolla 1.3 (EE100) 1992 to 1993

Type		Electronic
Ignition coil		IIA
Primary resistance	ohms	1.3 to 1.5
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		Toyo Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0.6 to 3.6 @ 1500
	° Crankshaft @ rpm	8.4 to 11.4 @ 2500
	° Crankshaft @ rpm	24.8 to 28.8 @ 6000
Vacuum range check	mbar	133 to 573
Maximum vacuum advance	° Crankshaft	28 to 32
Spark plugs		NGK/Champion
Type		BPR5EY11 / RN9YC4
Electrode gap	mm	1.10

### Electrical system Corolla 1.3 (EE100) 1992 to 1993

Battery	V / CC / RC	12 / 40, 60Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.1 / 30 / 2000
Starter motor current / voltage - cranking	A / V	50 / 11 (no load)
- locked	A / V	-

### Running gear Corolla 1.3 (EE100) 1992 to 1993

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	155x13: 165x13
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	2.4 / 2.4 <sup>2</sup>
- Estate / Van	bar	-

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		-10'±45'
Castor		+1°20'±45'
King pin inclination		+12°35'±45'

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0±2.0
Camber		-55'±45'

### Torque wrench settings Corolla 1.3 (EE100) 1992 to 1993

Cylinder head - stage 1	Nm	29
- stage 2	Nm	49
- stage 3	Nm	+ 90°
- stage 4	Nm	-
Big-end bearings	Nm	39
Main bearings	Nm	57
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	88
Front hubs	Nm	216
Rear hubs	Nm	123 N
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

### Capacities Corolla 1.3 (EE100) 1992 to 1993

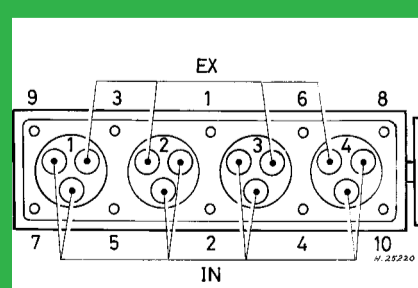
Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.4. C40: 2.7
Automatic transmission - refill	litres	2.5
Final drive	litres	AT: 1.4
Cooling system	litres	4.8
Fuel tank	litres	50

### Notes and Illustrations

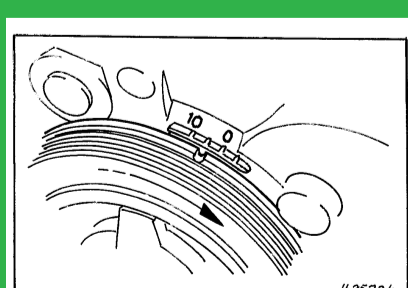
<sup>1</sup>PAS: 21100-11680 [690]

<sup>2</sup>165x13: 2.1 / 2.1

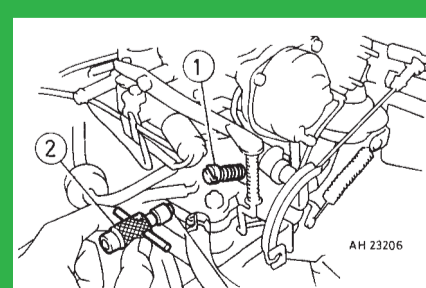
1: Idle speed    2: CO / Mixture



1295 cm<sup>3</sup>, 12V



1295 cm<sup>3</sup>



Aisan 21100-11630 / 40 / 80 / 90