

TOYOTA

Corolla 1.3 (EE100)

1992 to 1993

Engine & Cooling

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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 ³) / 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	
		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	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ idle speed [3000 rpm] - see page VI		%	—	
Carburettor / fuel injection			Aisan	
Type / ref			21100-11630 [640] ¹	
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)	
		A / V	—	

Running gear			Corolla 1.3 (EE100)	1992 to 1993
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Brakes -				
Front (min. friction material thickness)		mm	1.0	
Rear (min. friction material thickness)		mm	1.0	

Tyres				
Saloon		Size	155x13: 165x13	
Estate / Van		Size	—	
Pressure - front / rear - Saloon		bar	2.4 / 2.4 ²	
		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'	

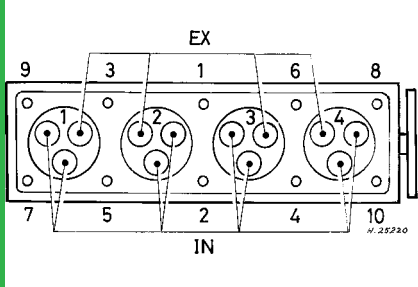
Torque wrench settings			Corolla 1.3 (EE100)	1992 to 1993
Cylinder head - stage 1		Nm	29	
- stage 2		Nm	49	
- stage 3		Nm	+ 90°	
- stage 4		Nm	—	
Big-end bearings		Nm	39	
Main bearings		Nm	57	
Clutch cover		Nm	19	
Flywheel [driveplate]		Nm	88	
Front hubs		Nm	216	
Rear hubs		Nm	123 N	
Wheel nuts / bolts		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	

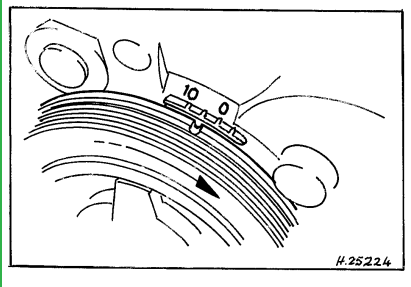
Notes and Illustrations

¹PAS: 21100-11680 [690]
²165x13: 2.1 / 2.1

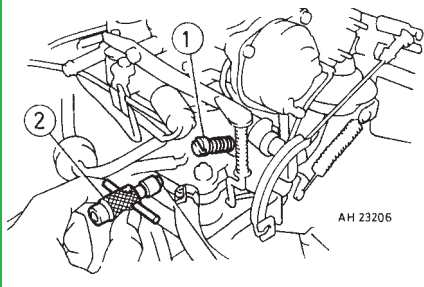
1: Idle speed 2: CO / Mixture



1295 cm³, 12V



1295 cm³



Aisan 21100-11630 / 40 / 80 / 90