

TOYOTA

Corolla 1.8i CAT

1993 to 1995

Engine & Cooling

Fuel

Ignition

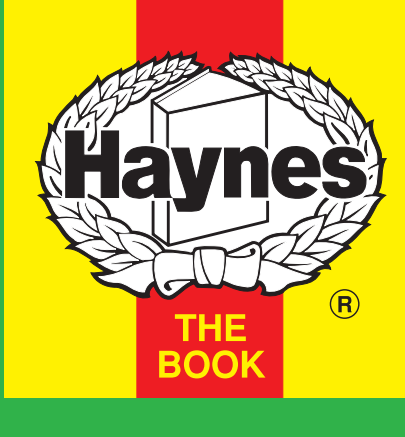
Electrical

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Automotive Technical
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Engine and cooling system

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Type		7A-FE DOHC16V US87
Capacity (cm ³) / number of cylinders		1762 / 4
Compression ratio / pressure	bar	9.5 / 13.2
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 to 0.25
- exhaust	mm	0.25 to 0.35
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.75 to 1.00

Fuel system

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Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Toyota
Type / ref		MPI (D-Jetronic) TCCS
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		TCCS - IIA
Ignition coil		—
Primary resistance	ohms	1.4 to 2.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	[0.2 to 0.4]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 750±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	TCCS - ESA
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	TCCS - ESA
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BKR6EYA
Electrode gap	mm	0.80

Electrical system

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Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		14.0 to 15.0 / 70 /
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	1.0±1.0
Camber		-13'
Castor		1±24'
King pin inclination		12°41'

Rear suspension / wheel alignment

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

Torque wrench settings

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Cylinder head - stage 1	Nm	29
- stage 2	Nm	+90°
- stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	25 +90°
Main bearings	Nm	60
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	78 (64)
Front hubs	Nm	216
Rear hubs	Nm	123 N
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

Capacities

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Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	50

Notes and Illustrations

