

TOYOTA

Corolla 1.6 Exec. (AE92)

1987 to 1992

Engine & Cooling

Fuel

Ignition

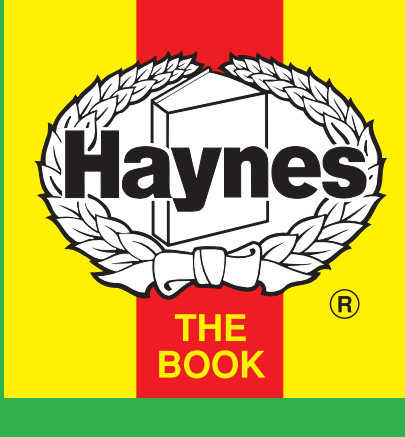
Electrical

Running gear

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Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system		Corolla 1.6 Exec. (AE92)	1987 to 1992
Type		4A-F (DOHC 16V)	
Capacity (cm ³) / number of cylinders		1587 / 4	
Compression ratio / pressure	bar	9.5 / ≥9.8	
Oil pressure	bar	[2.5 to 5.0]	
Oil temperature	°C	80	
Valve clearance - inlet	mm	0.15 to 0.25	
- exhaust	mm	0.20 to 0.30	
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 1.6 Exec. (AE92)	1987 to 1992
Idle speed - manual [auto]	rpm	800 [800. PAS: 900]	
Fast idle speed - manual [auto]	rpm	3000±200	
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.5. 90 ►: 1.0 to 2.0	
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200	
CO2 @ idle speed [3000 rpm] - see page VI	%	—	
O2 @ idle speed [3000 rpm] - see page VI	%	—	
Carburettor / fuel injection		Aisan	
Type / ref		2V, 21100-16300	
Main jet / needle		—	
Injection pressure	bar	—	
Pump pressure	bar	—	
Octane rating	RON	95[E 95 RON]	

Ignition system		Corolla 1.6 Exec. (AE92)	1987 to 1992
Type		Electronic	
Ignition coil		—	
Primary resistance	ohms	1.3 to 1.5	
Ballast resistor	ohms	—	
Voltage - Tmnl 15(+) to earth	V	—	
Distributor		—	
Points gap (air gap)	mm	[0.20 to 0.40]	
Dwell angle	° (%)	—	
Condenser capacity	µF	—	
Rotation		—	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900	
V = Vacuum NV = No Vacuum		NV	
Total ignition advance	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Centrifugal check.	° Crankshaft @ rpm	0 to 3 @ 1600 ¹	
	° Crankshaft @ rpm	11.4 to 14.4 @ 3300 ¹	
	° Crankshaft @ rpm	19.4 to 23.4 @ 6600 ¹	
Vacuum range check	mbar	133 to 560 ²	
Maximum vacuum advance	° Crankshaft	13 to 17 ²	
Spark plugs		NGK/Champion	
Type		BCRE 527Y / RC9YCC	
Electrode gap	mm	0.80	

Electrical system		Corolla 1.6 Exec. (AE92)	1987 to 1992
Battery	V / CC / RC	12 / 50Ah	
Alternator voltage / full load current / engine rpm		13.5 to 15.1 / _ / 3000	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	

Running gear		Corolla 1.6 Exec. (AE92)	1987 to 1992
Brakes -			
Front (min. friction material thickness)	mm	1.0	
Rear (min. friction material thickness)	mm	1.0	
Tyres			
Saloon	Size	175/70x13	
Estate / Van	Size	—	
Pressure - front / rear - Saloon	bar	1.8 / 1.8	
- Estate / Van	bar	—	

Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0 ³	
Camber		-10'±45'	
Castor		+1°20±45'	
King pin inclination		+12°40'±45'	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±1.0 ⁴	
Camber		-35'±45'	

Torque wrench settings		Corolla 1.6 Exec. (AE92)	1987 to 1992
Cylinder head - stage 1	Nm	60 in several stages	
- stage 2	Nm	—	
- stage 3	Nm	—	
- stage 4	Nm	—	
Big-end bearings	Nm	49	
Main bearings	Nm	60	
Clutch cover	Nm	19	
Flywheel [driveplate]	Nm	78 [64]	
Front hubs	Nm	186 ⁵	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	103	
Spark plugs	Nm	18	

Capacities		Corolla 1.6 Exec. (AE92)	1987 to 1992
Engine oil & filter	litres	3.3	
Gearbox - 4-speed [5-speed]	litres	2.6	
Automatic transmission - refill	litres	2.5	
Final drive	litres	AT: 1.4	
Cooling system	litres	5.2 [AT: 5.5]	
Fuel tank	litres	50	

Notes and Illustrations

¹Distributor 19020-16110: 0.4 to 3.4 @ 1800, 16 to 19 @ 3700, 26.4 to 30.4 @ 6600

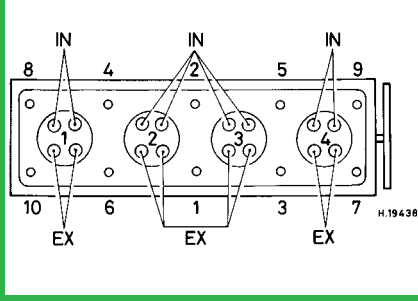
²Distributor 19020-16110: 133 to 573 @ 20 to 24°

³90 ►: +1.0±2.0

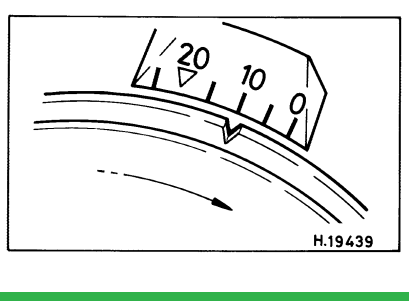
⁴90 ►: +4.0±2.0

⁵If noisy, retighten to 273

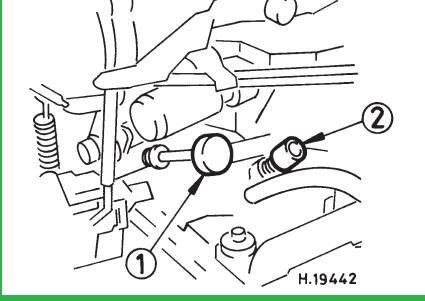
1: Idle speed 2: CO / Mixture



1587 cm³, 16V, to 1992



1587 cm³, 4A-F



Aisan 2V