

TOYOTA

Corolla GTi 1.6 (AE92)

1987 to 1992

Engine & Cooling

Fuel

Ignition

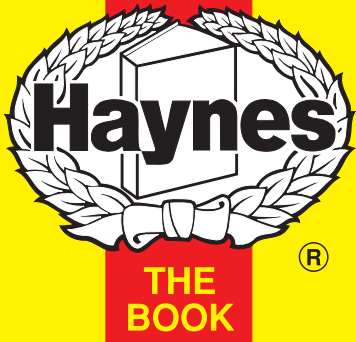
Electrical

Running gear

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Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		4A-GE (DOHC 16V)
Capacity (cm ³) / number of cylinders		1587 / 4
Compression ratio / pressure	bar	10.0 / ≥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	0.75 to 1.00

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	%	1.5±0.5
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		Toyota
Type / ref		D-Jetronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.2 to 2.6 ¹
Octane rating	RON	95[E 95 RON]

Ignition system

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Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.40 to 0.50
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 @ 800
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BCPR6EY-11 / RC7YC4 ²
Electrode gap	mm	1.10 ²

Electrical system

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Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / _ / 3000
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	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0 ³
Camber		-15'±45'
Castor		+1°20'±45'
King pin inclination		+12°50'±45'. 90 ►: +12°5'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±1.0 ⁴
Camber		-41'±45'. 90 ►: -40'±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	49. 89 ►: 39 + 90°
Main bearings	Nm	60
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	74
Front hubs	Nm	186 ⁵
Rear hubs	Nm	WSM
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	2.6
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

Notes and Illustrations

¹89 ►: 2.6 to 3.0

²90 ►: NGK BKR6EYA: 0.80

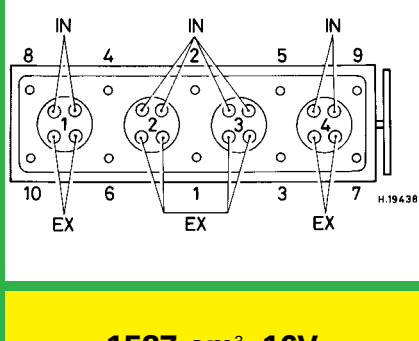
³90 ►: +1.0±2.0

⁴90 ►: +4.0±2.0

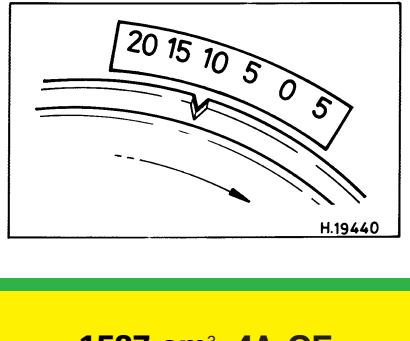
⁵If noisy, retighten to 273

1: Idle speed

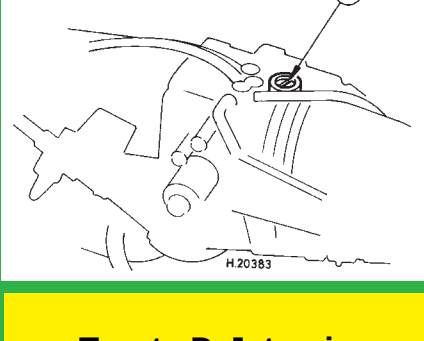
2: CO / Mixture



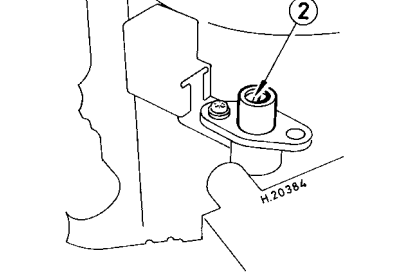
1587 cm³, 16V



1587 cm³, 4A-GE



Toyota D-Jetronic



Toyota D-Jetronic