

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemCelica 2.0i1994 to 1997

Type	3SGE DOHC 16V 130kW	
Capacity (cm ³) / number of cylinders	1998 / 4	
Compression ratio / pressure	bar	10.0 / 12.3
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	0.80 to 1.10

Fuel systemCelica 2.0i1994 to 1997

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_Toyota	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	2.6 to 3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemCelica 2.0i1994 to 1997

Type	Computerized	
Ignition coil	—	
Primary resistance	ohms	0.45 to 0.65
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 @ 700±50
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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	
Type	BKR6EP8	
Electrode gap	mm	0.80 to 1.00

Electrical systemCelica 2.0i1994 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm	13.5 to 15.1 / 70 / _	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearCelica 2.0i1994 to 1997

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

Tyres		
Saloon	Size	205/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	Refer to vehicle
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±1.0
Camber	-10'±45'	
Castor	1°±45'	
King pin inclination	14°10'±45'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.5±1.0
Camber	-45'±45'	

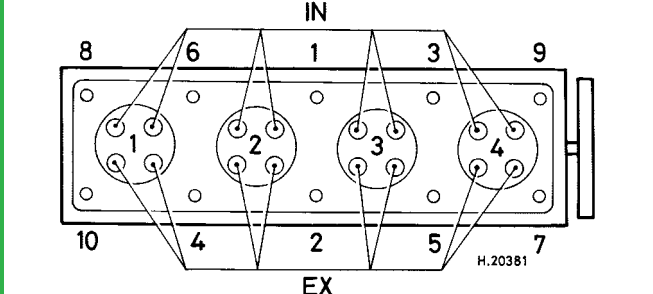
Torque wrench settingsCelica 2.0i1994 to 1997

Cylinder head - stage 1	Nm	49
- stage 2	Nm	+90°
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	67
Main bearings	Nm	60
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	108
Front hubs	Nm	186
Rear hubs	Nm	123
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

CapacitiesCelica 2.0i1994 to 1997

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	2.6
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	60

Notes and Illustrations



1998 cm³