

RENAULT

Clio 1.7 (B/C574)

1991 to 1992

Engine & Cooling

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Automotive Technical
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Engine and cooling system

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Type		F2N-7-70
Capacity (cm ³) / number of cylinders		1721 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	2.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.6

Fuel system

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Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	900±50
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		Solex
Type / ref		32-34 Z13 965 (D)
Main jet / needle		112.5, 135
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.33
Octane rating	RON	95[E 95 RON]

Ignition system

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Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	2±1 BTDC @ 800±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	RE293
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 4 @ 750
	° Crankshaft @ rpm	7 to 12 @ 1550
	° Crankshaft @ rpm	23 to 28 @ 4050
Vacuum range check	mbar	0 to 300
Maximum vacuum advance	° Crankshaft	≥10
Spark plugs		AC/Champion
Type		C41CXLS / N279YC
Electrode gap	mm	0.75 to 0.85

Electrical system

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Battery	V / CC / RC	_
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / 70, 90 / 4000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	460 / _

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing ¹

Tyres		
Saloon	Size	165/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0 ²
Camber		-20'±30' ³
Castor		+1°55'±30' ⁴
King pin inclination		+10°±30' ⁵

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 2.5 ⁶
Camber		-50'±30' N/A

Torque wrench settings

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Cylinder head - stage 1	Nm	30
- stage 2	Nm	70
Cylinder head - stage 3	Nm	Wait 3 mins. Slacken in turn
- stage 4	Nm	20 + 123±2°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	60 to 65
Clutch cover	Nm	25. M8: 30
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	160. ABS: 175
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

Capacities

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Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.4
Fuel tank	litres	43

Notes and Illustrations

¹ABS: 5.0

²ABS: +2.0±1.0

³ABS: -1°33'±30'

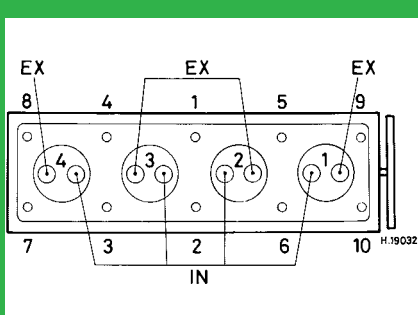
⁴ABS: +2°5'±30'

⁵ABS: +10°47'±30'

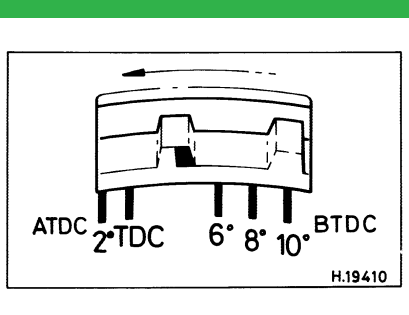
⁶ABS: +1.0 to 3.0

1: Idle speed

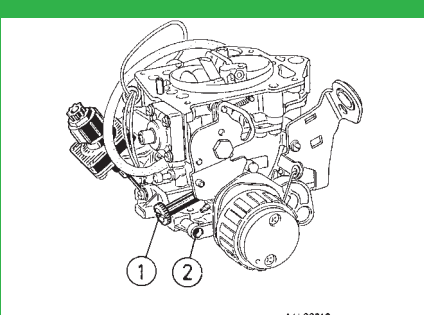
2: CO / Mixture



1721 cm³



1721 cm³



Solex Z13