

1993 to 1996

Engine & Cooling

Fuel

Ignition

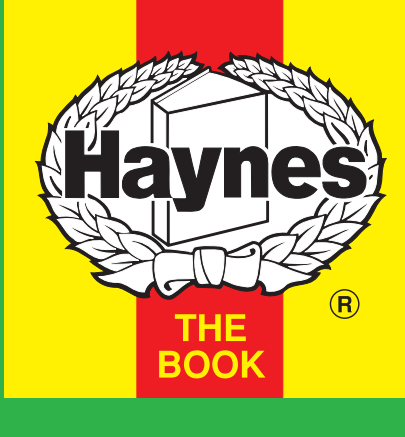
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Clio Williams (C57M)

1993 to 1996

Type		F7R-7-00 US87 DOHC16V 112kW
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.0 / _
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	1.2

Fuel system

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Idle speed - manual [auto]	rpm	900±50 N/A
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	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Siemens Bendix
Type / ref		MPI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

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Type		Computerized
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	Computer control
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		Eyquem
Type		FC58LS3
Electrode gap	mm	0.80±0.05 ¹

Electrical system

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Battery	V / CC / RC	_
Alternator voltage / full load current / engine rpm		13.5 / 70 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	450 / _

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	5.0 with backing

Tyres		
Saloon	Size	185/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-41'±30' N/A
Castor		+2°45'±30' N/A
King pin inclination		+12°23'±30' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 3.0 N/A
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 + 107±2°
Big-end bearings	Nm	40 to 45
Main bearings	Nm	60 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	175
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25 to 35

Capacities

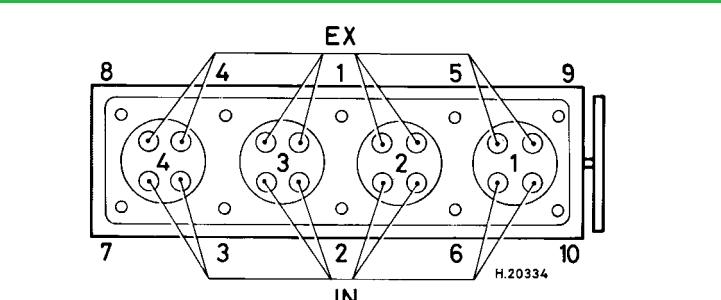
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Engine oil & filter	litres	4.2
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	50

Notes and Illustrations

¹C7BMC: N/A



1998 cm³, 16V