Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — Clio Williams (C57M) 1993 to 1996

Type		F7R-7-00 US87 DOHC16V 112kW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	2.0 [3.5]
Oil temperature	ºC	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	ºC	89
Radiator cap pressure	bar	1.2

Fuel system — Clio Williams (C57M) 1993 to 1996

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 — Clio Williams (C57M) 1993 to 1996

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	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Eyquem
Type		FC58LS3
Electrode gap	mm	0.80±0.05[1]

Electrical system — Clio Williams (C57M) 1993 to 1996

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 — Clio Williams (C57M) 1993 to 1996

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 [º]	-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 [º]	+1.0 to 3.0 N/A
Camber		-50'±30' N/A

Torque wrench settings — Clio Williams (C57M) 1993 to 1996

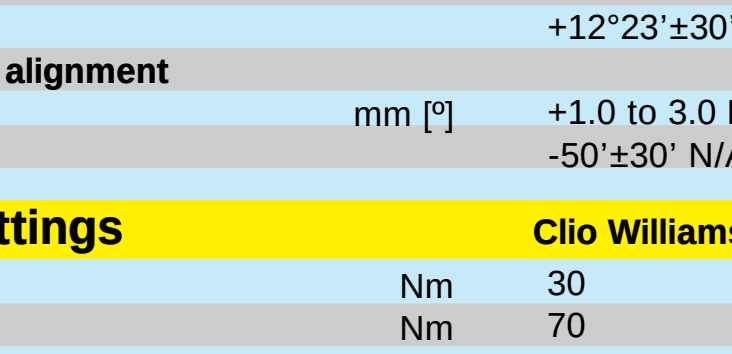
Cylinder head - stage 1	Nm	30
- stage 2	Nm	70
Cylinder head - stage 3	Nm	Wait 3 mins. Slacken in turn
- stage 4	Nm	20 + 107±2°
Big-end bearings	Nm	40 to 45
Main bearings	Nm	60 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	175
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25 to 35

Capacities — Clio Williams (C57M) 1993 to 1996

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

[1]**C7BMC: N/A**



1998 cm³, 16V