

Engine & Cooling

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Automotive Technical
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Engine and cooling systemTwingo (C063/064)1994 to 1997

Type		C3G-7-00/7-02 40kW
Capacity (cm³) / number of cylinders		1239 / 4
Compression ratio / pressure	bar	9.2 /
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89 to 101
Radiator cap pressure	bar	1.2

Fuel systemTwingo (C063/064)1994 to 1997

Idle speed - manual [auto]	rpm	730 ± 50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.5
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_Magneti-Marelli
Type / ref		Monopoint SPi
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	1.05 ± 0.05
Octane rating	RON	95[U]

Ignition systemTwingo (C063/064)1994 to 1997

Type		Computerized
Ignition coil		—
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	° (%)	N/A
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
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/Bosch
Type		BP5ESZ/W9DC
Electrode gap	mm	0.90±0.05

Electrical systemTwingo (C063/064)1994 to 1997

Battery	V / CC / RC	12 / 35Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / 60 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearTwingo (C063/064)1994 to 1997

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

Tyres		
Saloon	Size	145/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0±1.0
Camber		-26'±30'
Castor		1°±30'
King pin inclination		10°32'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		- 0°30' ± 20'

Torque wrench settingsTwingo (C063/064)1994 to 1997

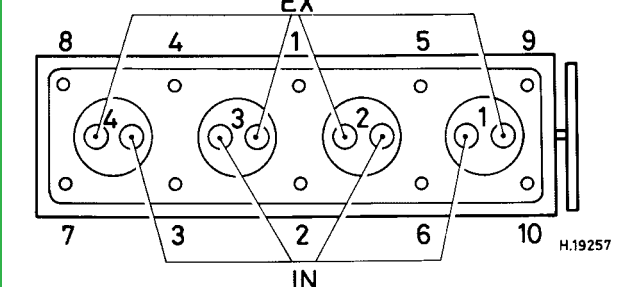
Cylinder head - stage 1	Nm	20 + 90±4°
- stage 2	Nm	Wait 3 mins.
Cylinder head - stage 3	Nm	Slacken, ¹
- stage 4	Nm	20 + 90±4°
Big-end bearings	Nm	35
Main bearings	Nm	55 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50
Front hubs	Nm	250
Rear hubs	Nm	170
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25 to 30

CapacitiesTwingo (C063/064)1994 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	40

Notes and Illustrations

¹Loosen and tighten one bolt only after tightening previous bolt. Follow tightening order



1239 cm³