

RENAULT

4, 1108 (R1128)

1981 to 1992

Engine & Cooling

Fuel

Ignition

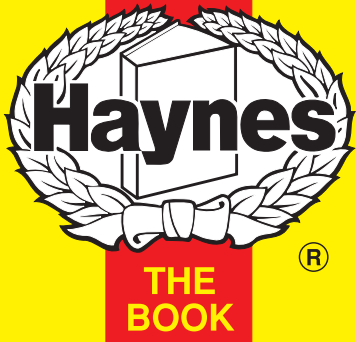
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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Type		688-D7-12 / C1E
Capacity (cm ³) / number of cylinders		1108 / 4
Compression ratio / pressure	bar	9.5 / _
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	84
Radiator cap pressure	bar	0.9

Fuel system

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Idle speed - manual [auto]	rpm	650±25
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	2.0 to 2.5
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		Zenith
Type / ref		28 IF V 05078
Main jet / needle		91 A
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.27
Octane rating	RON	98[L]

Ignition system

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Type		Contact breaker - CIS
Ignition coil		Ducellier, SEV
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	0.40
Dwell angle	° (%)	57±3 (63±3)
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	R244-C61
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200 to 1400
	° Crankshaft @ rpm	14 to 18 @ 3000
	° Crankshaft @ rpm	32 to 36 @ 5000
Vacuum range check	mbar	105 to 474
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs		AC/Champion
Type		43FS / L92YC
Electrode gap	mm	0.55 to 0.65

Electrical system

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Battery	V / CC / RC	12 / 150 / 40
Alternator voltage / full load current / engine rpm		14.0 / _ / 2000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	300 to 400 / _

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

Tyres		
Saloon	Size	_
Estate / Van	Size	135x13
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	1.5 / 1.8 ¹

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		+1°±30'
Castor		+12° to 13°
King pin inclination		+13°40'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +4.0
Camber		0 to +1°30'

Torque wrench settings

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Cylinder head - stage 1	Nm	55 to 65
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	35
Main bearings	Nm	55 to 65
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	50
Front hubs	Nm	120
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	50 to 60
Spark plugs	Nm	_

Capacities

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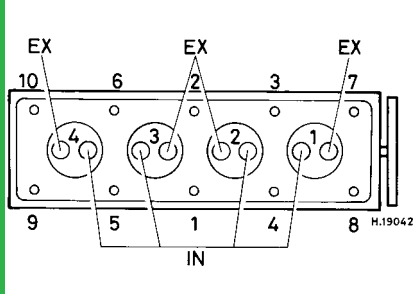
1981 to 1992

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.3
Fuel tank	litres	34

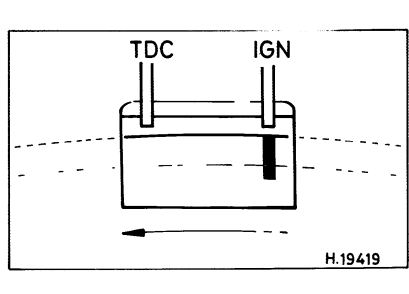
Notes and Illustrations

¹Van: 1.5 / 2.0

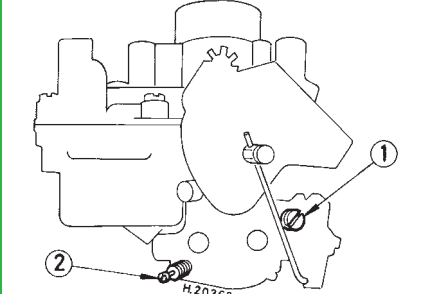
1: Idle speed 2: CO / Mixture



1108 cm³



1108 cm³



Zenith 28 IF