

Engine & Cooling

Fuel

Ignition

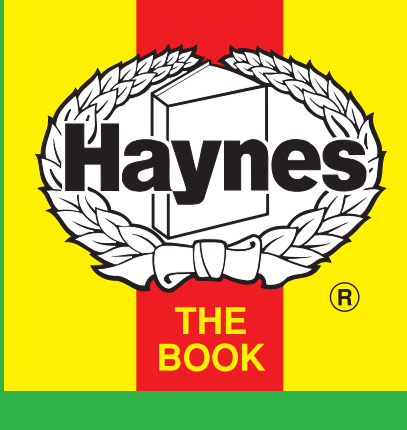
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system1200 & Riva1981 to 1990

Type		2101
Capacity (cm³) / number of cylinders		1198 / 4
Compression ratio / pressure	bar	8.5 / 11.7
Oil pressure	bar	[3.5 to 4.4]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.15
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	80 or 83
Radiator cap pressure	bar	0.50

Fuel system1200 & Riva1981 to 1990

Idle speed - manual [auto]	rpm	820 to 900
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
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		—
Type / ref		2105-1107010-20 (Ozone)
Main jet / needle		107, 162
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	93[E 95 RON]

Ignition system1200 & Riva1981 to 1990

Type		Contact breaker - CIS
Ignition coil		—
Primary resistance	ohms	3.1 to 3.3
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	0.40±0.03
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.20 to 0.25
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 to 7 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 600 to 1000
	° Crankshaft @ rpm	16 to 20 @ 2200
	° Crankshaft @ rpm	29 to 33 @ 5200
Vacuum range check	mbar	93 to 213
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Champion
Type		RN9YCC
Electrode gap	mm	0.60

Electrical system1200 & Riva1981 to 1990

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	500 / 6.5

Running gear1200 & Riva1981 to 1990

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	155x13: 165x13: 175x13
Estate / Van	Size	165x13
Pressure - front / rear - Saloon	bar	1.7 / 1.8
- Estate / Van	bar	1.5 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±1.0
Camber		+5'±20'
Castor		+3°30'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings1200 & Riva1981 to 1990

Cylinder head - stage 1	Nm	39 Bolt 11: 15
- stage 2	Nm	113. Bolt 11: 37
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	51
Main bearings	Nm	82
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	69
Spark plugs	Nm	37

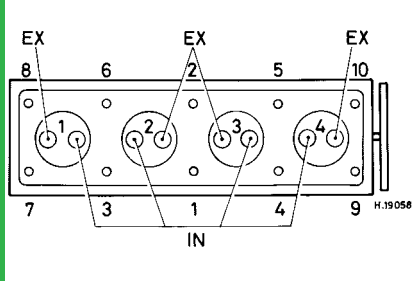
Capacities1200 & Riva1981 to 1990

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	9.9
Fuel tank	litres	39. Estate: 45

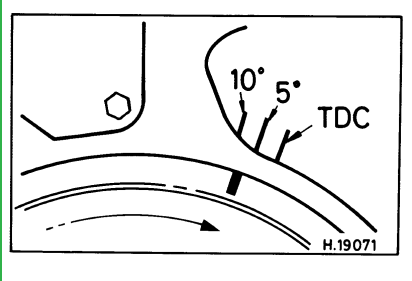
Notes and Illustrations



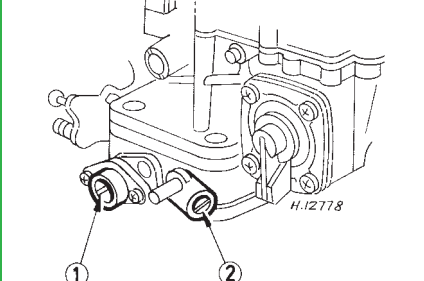
1: Idle speed 2: CO / Mixture



1198 cm³



1198 cm³



Ozone