

Engine & Cooling

Fuel

Ignition

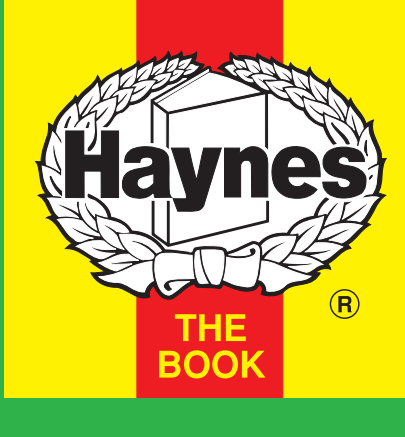
Electrical

Running gear

Torque settings

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Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemRialto & Robin1983 to 1997

Type		OHV 30kW
Capacity (cm³) / number of cylinders		848 / 4
Compression ratio / pressure	bar	9.5 / 9.7
Oil pressure	bar	[3.1]
Oil temperature	°C	—
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	88
Radiator cap pressure	bar	0.48

Fuel systemRialto & Robin1983 to 1997

Idle speed - manual [auto]	rpm	900
Fast idle speed - manual [auto]	rpm	2250
CO @ idle speed [3000 rpm] - see page VI	%	N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		SU
Type / ref		HS2
Main jet / needle		0.090 / AAT
Injection pressure	bar	—
Pump pressure	bar	0.25
Octane rating	RON	98[L]

Ignition systemRialto & Robin1983 to 1997

Type		Contact breaker - CIS
Ignition coil		Lucas
Primary resistance	ohms	2.9 to 3.5. Later: 1.4
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	6.0 to 8.0
Distributor		Lucas
Points gap (air gap)	mm	0.38
Dwell angle	° (%)	51±5
Condenser capacity	µF	0.18 to 0.25
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	TDC @ 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 850
	° Crankshaft @ rpm	12 to 20 @ 1600
	° Crankshaft @ rpm	26 to 30 @ 4800
Vacuum range check	mbar	169 to 333
Maximum vacuum advance	° Crankshaft	10
Spark plugs		Motorcraft/Champion
Type		AGR32 / RN12YC
Electrode gap	mm	0.64

Electrical systemRialto & Robin1983 to 1997

Battery	V / CC / RC	12 / 30Ah
Alternator voltage / full load current / engine rpm		14.0 / 34 / 3000
Starter motor current / voltage - cranking	A / V	260 / —
- locked	A / V	350 / 7.0

Running gearRialto & Robin1983 to 1997

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	5.20x10: 145x10
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.7
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		0
Castor		+9°30' L
King pin inclination		0 to +20'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settingsRialto & Robin1983 to 1997

Cylinder head - stage 1	Nm	0.375 in. UNF: 34
- stage 2	Nm	0.3125 in. UNF: 20
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	29 to 33
Main bearings	Nm	31 to 33
Clutch cover	Nm	16 to 20
Flywheel [driveplate]	Nm	38 to 45
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 149
Wheel nuts / bolts	Nm	41 to 47
Spark plugs	Nm	20

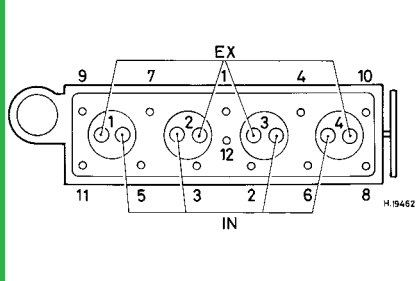
CapacitiesRialto & Robin1983 to 1997

Engine oil & filter	litres	3.1
Gearbox - 4-speed [5-speed]	litres	0.6
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	2.8
Fuel tank	litres	27.3

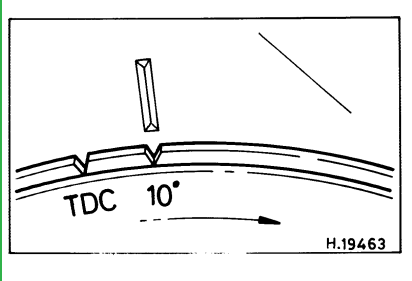
Notes and Illustrations



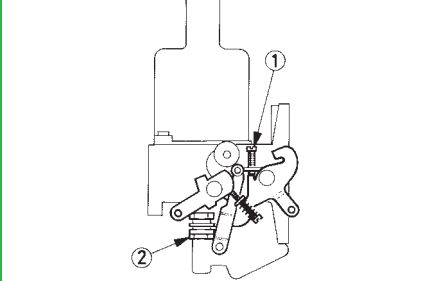
1: Idle speed 2: CO / Mixture



848 cm³



848 cm³



SU HS2