

Engine & Cooling

Fuel

Ignition

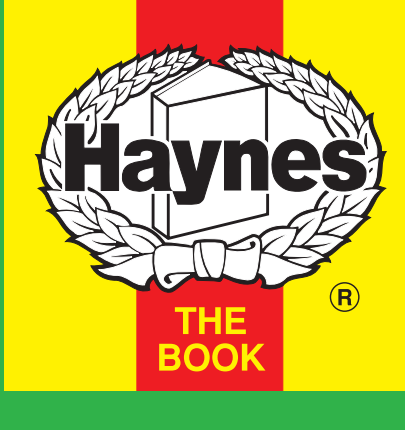
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

1500 Riva CAT

1992 to 1997

Type	2103 SOHC 8V 60kW	
Capacity (cm ³) / number of cylinders	1452 / 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 system

1500 Riva CAT

1992 to 1997

Idle speed - manual [auto]	rpm	875 to 925
Fast idle speed - manual [auto]	rpm	2000
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	≤1.0
Carburettor / fuel injection	Lada	
Type / ref	21053-1107010-62	
Main jet / needle	130, 140	
Injection pressure	bar	—
Pump pressure	bar	0.23 to 0.30
Octane rating	RON	95[U]

Ignition system

1500 Riva CAT

1992 to 1997

Type	Electronic	
Ignition coil	—	
Primary resistance	ohms	0.45 to 1.00
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	4±1 BTDC @ 850
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	18 to 22 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5200
Vacuum range check	mbar	132 to 264
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs	NGK	
Type	BPR5ES	
Electrode gap	mm	0.70 to 0.80

Electrical system

1500 Riva CAT

1992 to 1997

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm	13.5 to 14.5 / 45 / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	500 / 6.5

Running gear

1500 Riva CAT

1992 to 1997

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

Tyres		
Saloon	Size	175x13
Estate / Van	Size	175x13
Pressure - front / rear - Saloon	bar	1.6 / 1.9
- Estate / Van	bar	1.7 / 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	+6°11'	

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

Torque wrench settings

1500 Riva CAT

1992 to 1997

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	80
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	69
Spark plugs	Nm	37

Capacities

1500 Riva CAT

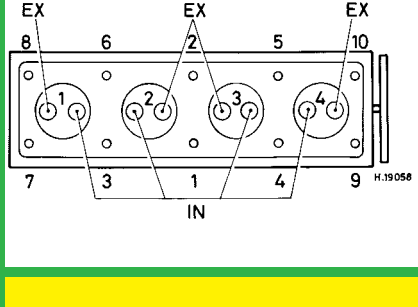
1992 to 1997

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	9.6
Fuel tank	litres	38.6. Est: 45.5

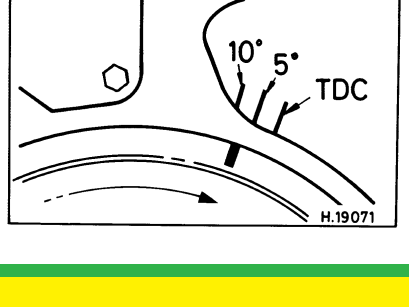
Notes and Illustrations

1: Idle speed

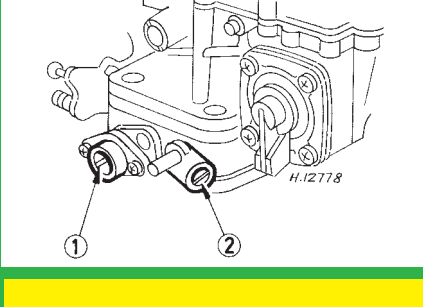
2: CO / Mixture



1452 cm³



1452 cm³



21053-1107010-62