

Engine & Cooling

Fuel

Ignition

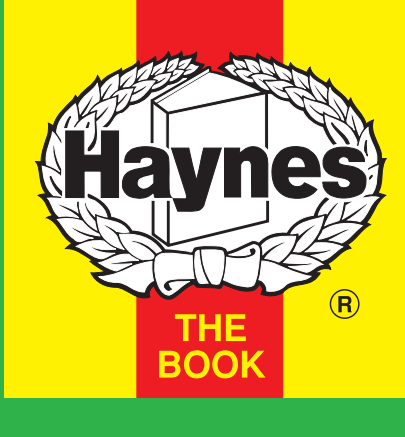
Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemRapid 135 RiC CAT1990

Type		135 OHV
Capacity (cm³) / number of cylinders		1289 / 4
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	[4.1 to 5.5]
Oil temperature	°C	≥70
Valve clearance - inlet	mm	0.25
- exhaust	mm	0.20±0.05
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88 to 98
Radiator cap pressure	bar	1.0

Fuel systemRapid 135 RiC CAT1990

Idle speed - manual [auto]	rpm	900 to 950
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.15
HC @ idle speed [3000 rpm] - see page VI	ppm	80
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bendix
Type / ref		Monopoint
Main jet / needle		_
Injection pressure	bar	0.75
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemRapid 135 RiC CAT1990

Type		Electronic
Ignition coil		Renix 5100 620005
Primary resistance	ohms	_
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	14 BTDC @ 900
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	40 @ 4500
	° 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		Champion
Type		S12YC
Electrode gap	mm	0.60

Electrical systemRapid 135 RiC CAT1990

Battery	V / CC / RC	12 / 40Ah
Alternator voltage / full load current / engine rpm		13.4 to 14.3 / _ / 3000
Starter motor current / voltage - cranking	A / V	150 to 210 / 9.5
- locked	A / V	340 / 8.0

Running gearRapid 135 RiC CAT1990

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	165x13: 165/80x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.5 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber		+1°±30'
Castor		+4°45' to 6°30'
King pin inclination		+8°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +2.0
Camber		-2°15'

Torque wrench settingsRapid 135 RiC CAT1990

Cylinder head - stage 1	Nm	BOLTS: 17 to 20
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	NUTS: 20 to 26
Big-end bearings	Nm	36 to 40
Main bearings	Nm	60mm pin:50 to 55 ¹
Clutch cover	Nm	23 to 28
Flywheel [driveplate]	Nm	55 to 65
Front hubs	Nm	WSM
Rear hubs	Nm	300
Wheel nuts / bolts	Nm	60 to 70
Spark plugs	Nm	20 to 30 ²

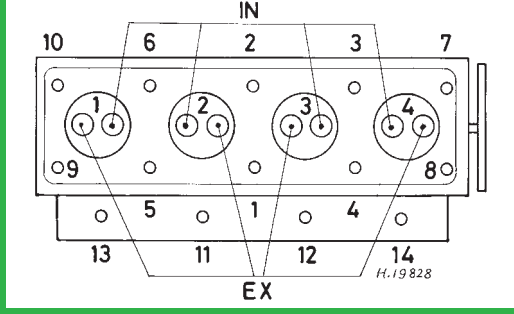
CapacitiesRapid 135 RiC CAT1990

Engine oil & filter	litres	4.0 [+ cooler 0.6]
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	11.5
Fuel tank	litres	36

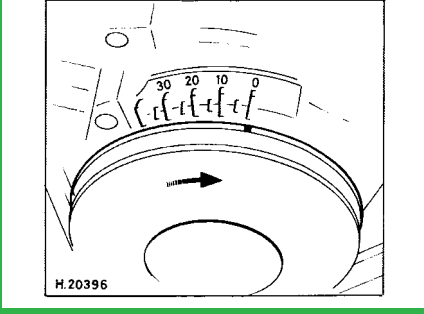
Notes and Illustrations

¹M11: 65 to 75

²Flat seat only. Taper seat: 10 to 14



1289 cm³



1289 cm³