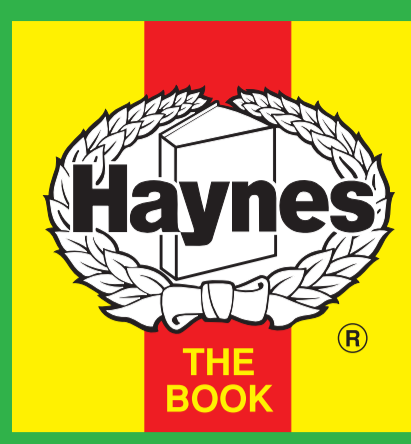


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



## Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

### Engine and cooling system Master 2.2i CAT (RxxA) 1991 to 1993

Type		J7T-7-82
Capacity (cm <sup>3</sup> ) / number of cylinders		2165 / 4
Compression ratio / pressure	bar	8.6 / _
Oil pressure	bar	0.8 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	0.8 to 1.2

### Fuel system Master 2.2i CAT (RxxA) 1991 to 1993

Idle speed - manual [auto]	rpm	800±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bendix
Type / ref		Renix MPI
Main jet / needle		_
Injection pressure	bar	2.0±0.2
Pump pressure	bar	2.5±0.2
Octane rating	RON	95[U]

### Ignition system Master 2.2i CAT (RxxA) 1991 to 1993

Type		Renix - AEI
Ignition coil		Bendix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° 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		Eyquem
Type		C52LJS
Electrode gap	mm	0.85 to 0.95

### Electrical system Master 2.2i CAT (RxxA) 1991 to 1993

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		12.5 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

### Running gear Master 2.2i CAT (RxxA) 1991 to 1993

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	9.0 with backing
Rear (min. friction material thickness)	mm	3.0 with backing
<b>Tyres</b>		
Saloon	Size	_
Estate / Van	Size	185x16: 205x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	3.5 / 4.5'
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-1.2±1.2
Camber		+1°±30'
Castor		+3°30'±30'
King pin inclination		+8°±30'
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+1.2 to -1.2
Camber		0 to +30'

### Torque wrench settings Master 2.2i CAT (RxxA) 1991 to 1993

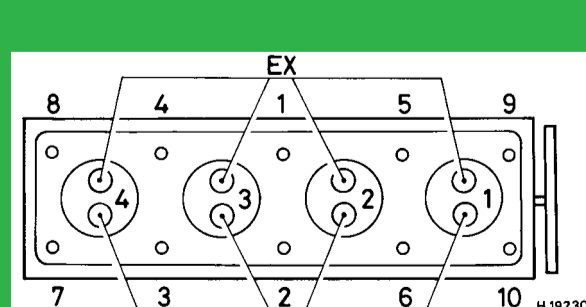
Cylinder head - stage 1	Nm	88 to 98
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	60 to 65
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60
Front hubs	Nm	450
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	155
Spark plugs	Nm	_

### Capacities Master 2.2i CAT (RxxA) 1991 to 1993

Engine oil & filter	litres	6.2
Gearbox - 4-speed [5-speed]	litres	4.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	14.0
Fuel tank	litres	62

### Notes and Illustrations

<sup>1</sup>185x16: 4.0 / 4.1



2165 cm<sup>3</sup>