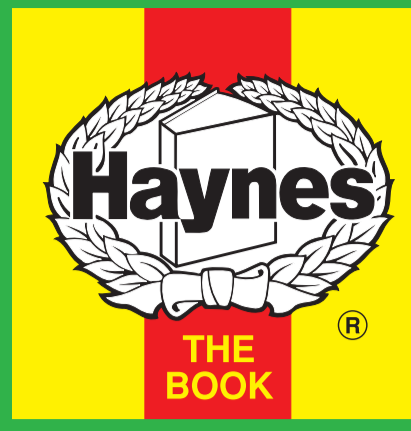


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# Automotive Technical DATA BOOK

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## Engine and cooling system Ducato 2.0i 1994 to 1997

Type		XU10J2U/W2/X3 (RFW) 80kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[6.0 to 6.3]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	_

## Fuel system Ducato 2.0i 1994 to 1997

Idle speed - manual [auto]	rpm	800±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.10
HC @ idle speed [3000 rpm] - see page VI	ppm	≤30
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	≥13.0
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Magneti-Marelli
Type / ref		MMDCM 8P-11 MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

## Ignition system Ducato 2.0i 1994 to 1997

Type		Static
Ignition coil		Sagem
Primary resistance	ohms	0.5
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	13±3 BTDC @ 800±50 N/A
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		Bosch/Champion
Type		FR7LDC / RN9YCC
Electrode gap	mm	0.80

## Electrical system Ducato 2.0i 1994 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 80 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

## Running gear Ducato 2.0i 1994 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	4.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	_
Estate / Van	Size	195/70x15: 205/70x15 <sup>1</sup>
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	Refer to vehicle

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.0
Camber		0±30' N/A
Castor		+1°±30' N/A
King pin inclination		_

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0 N/A
Camber		0±10' N/A

## Torque wrench settings Ducato 2.0i 1994 to 1997

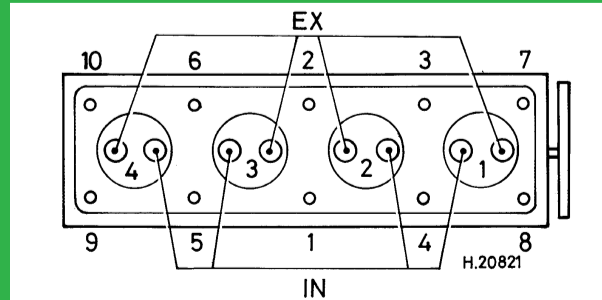
Cylinder head - stage 1	Nm	35
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 160°
- stage 4	Nm	_
Big-end bearings	Nm	40, slacken, 20 + 70°
Main bearings	Nm	70
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 N LkC
Front hubs	Nm	450
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	28

## Capacities Ducato 2.0i 1994 to 1997

Engine oil & filter	litres	5.1
Gearbox - 4-speed [5-speed]	litres	1.85
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	80

## Notes and Illustrations

<sup>1</sup>205/75x16: 215/75x16



1998 cm<sup>3</sup>