

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 Ducato 2.0 1986 to 1991

Type	XN1T (170B) OHV 55kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	1971 / 4	
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	[3.1 to 4.5]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.30
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	80 to 83
Radiator cap pressure	bar	0.9±0.1

## Fuel system Ducato 2.0 1986 to 1991

Idle speed - manual [auto]	rpm	800 to 850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	10.0
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Solex	
Type / ref	34PBISA 16 PEU A315	
Main jet / needle	130±005	
Injection pressure	bar	_
Pump pressure	bar	0.25
Octane rating	RON	92[E 95 RON]

## Ignition system Ducato 2.0 1986 to 1991

Type	Electronic	
Ignition coil	Ducellier. Bosch	
Primary resistance	ohms	0.74 to 0.90 typical
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Ducellier/Bosch	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 800
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1350 to 1650
	° Crankshaft @ rpm	25 to 28 @ 3000
	° Crankshaft @ rpm	34 to 38 @ 5000
Vacuum range check	mbar	80 to 300
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs	Bosch/Champion	
Type	W7DC / N9YC	
Electrode gap	mm	0.70 to 0.80

## Electrical system Ducato 2.0 1986 to 1991

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm	13.8 to 14.5 / 55 / 3000	
Starter motor current / voltage - cranking	A / V	180 to 200 / 8.2 to 8.6
- locked	A / V	315 to 365 / 5.6 to 6.4

## Running gear Ducato 2.0 1986 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	_
Estate / Van	Size	185x14: 195/75x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	3.4 / 3.4

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 2.5
Camber	+1°30' to 2°30'	
Castor	0 to +1°	
King pin inclination	_	

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0
Camber	0	

## Torque wrench settings Ducato 2.0 1986 to 1991

Cylinder head - stage 1	Nm	50, then slacken <sup>1</sup>
- stage 2	Nm	20 + 180° <sup>1</sup>
Cylinder head - stage 3	Nm	Warm up & cool 6 hours <sup>1</sup>
- stage 4	Nm	+ 35° <sup>1</sup>
Big-end bearings	Nm	39
Main bearings	Nm	73
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	66
Front hubs	Nm	421 to 510
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	23

## Capacities Ducato 2.0 1986 to 1991

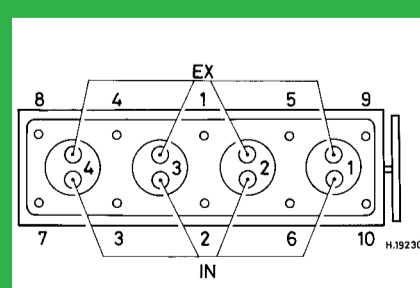
Engine oil & filter	litres	4.6
Gearbox - 4-speed [5-speed]	litres	1.3 <sup>2</sup>
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

## Notes and Illustrations

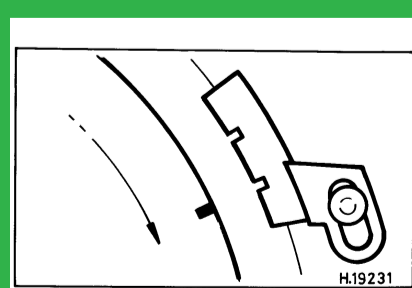
<sup>1</sup>Torx: 60, slacken, then 20 + 300°

<sup>2</sup>Yellow dipstick: 1.6

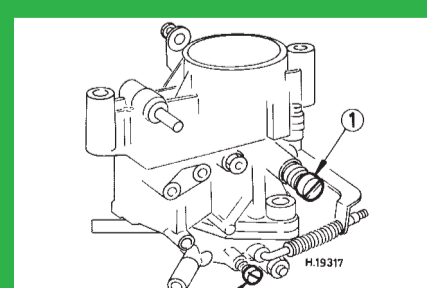
1: Idle speed 2: CO / Mixture



1971 cm<sup>3</sup>



1971 cm<sup>3</sup>



Solex 34 PBISA