

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Ducato 2.0 Maxi

1986 to 1991

Type		XN1TA (170C) OHV 63kW
Capacity (cm ³) / number of cylinders		1971 / 4
Compression ratio / pressure	bar	8.8 / _
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 Maxi

1986 to 1991

Idle speed - manual [auto]	rpm	900 to 950
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		34PBISA 16 PSA 425
Main jet / needle		127.5
Injection pressure	bar	_
Pump pressure	bar	0.25
Octane rating	RON	97[E 95 RON]

Ignition system

Ducato 2.0 Maxi

1986 to 1991

Type		Electronic
Ignition coil		Ducellier. Bosch
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 700
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	10±2 @ 1150±200
	° Crankshaft @ rpm	20±2 @ 1750±200
	° Crankshaft @ rpm	40±2 @ 5000±200
Vacuum range check	mbar	120 to 400
Maximum vacuum advance	° Crankshaft	7±2
Spark plugs		Bosch/Champion
Type		W7DC / N281YC
Electrode gap	mm	0.65

Electrical system

Ducato 2.0 Maxi

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 Maxi

1986 to 1991

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	_
Estate / Van	Size	195/75x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	4.0 / 4.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		+2° to 2°30'
Castor		0 to +30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		0

Torque wrench settings

Ducato 2.0 Maxi

1986 to 1991

Cylinder head - stage 1	Nm	50, then slacken ¹
- stage 2	Nm	20 + 180° ¹
Cylinder head - stage 3	Nm	Warm up & cool 6 hours ¹
- stage 4	Nm	+ 35° ¹
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 Maxi

1986 to 1991

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

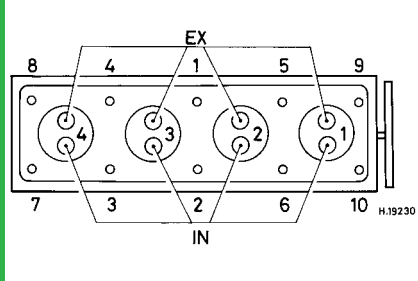
Notes and Illustrations

¹Torx: 60, slacken, then 20 + 300°

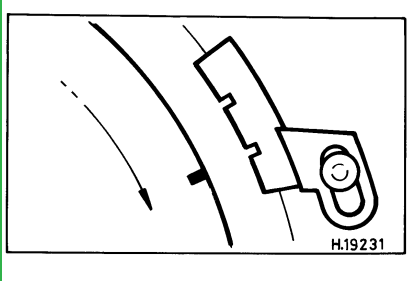
²Yellow dipstick: 1.6

1: Idle speed

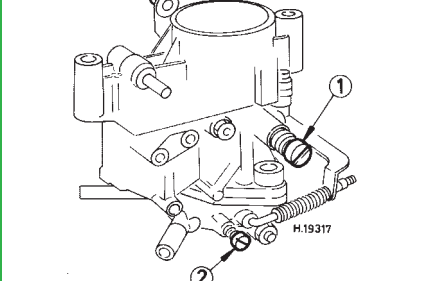
2: CO / Mixture



1971 cm³



1971 cm³



Solex 34 PBISA