

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Ducato 2.0 CAT 1990 to 1994

Type		XN1TACP (170D) OHV 62kW
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	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	80 to 83
Radiator cap pressure	bar	1.00

Fuel system Ducato 2.0 CAT 1990 to 1994

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥20.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		34TBIA 434
Main jet / needle		130±0.10
Injection pressure	bar	_
Pump pressure	bar	6.32
Octane rating	RON	95[U]

Ignition system Ducato 2.0 CAT 1990 to 1994

Type		Electronic
Ignition coil		Ducellier. Bosch
Primary resistance	ohms	0.82
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	4 BTDC @ 700
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	2 to 9 @ 1200
	° Crankshaft @ rpm	12 to 16 @ 1600
	° Crankshaft @ rpm	32 to 36 @ 5000
Vacuum range check	mbar	130 to 572
Maximum vacuum advance	° Crankshaft	6 to 8
Spark plugs		Bosch/Champion
Type		W7DC / N281YC
Electrode gap	mm	0.80

Electrical system Ducato 2.0 CAT 1990 to 1994

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / 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 CAT 1990 to 1994

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

Tyres		
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 [°]	WSM
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 CAT 1990 to 1994

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

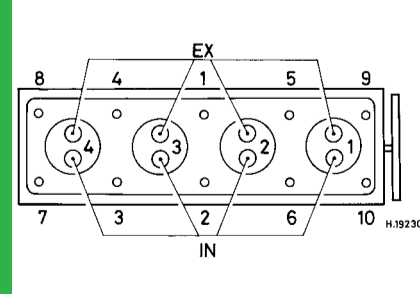
Capacities Ducato 2.0 CAT 1990 to 1994

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

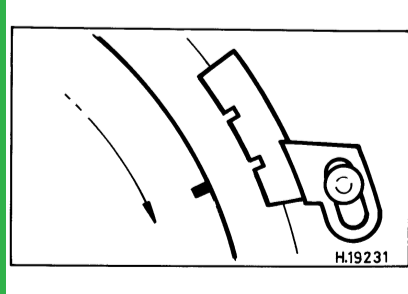
Notes and Illustrations

¹Torx: 60, slacken, then 20 + 300°

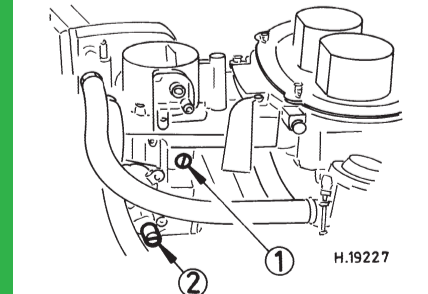
1: Idle speed 2: CO / Mixture



1971 cm³



1971 cm³



Solex TBIA