

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 systemDucato 2.01990 to 1994

Type	XN1TA/CP (170C/D) OHV 63/62kW	
Capacity (cm³) / 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	0.98

Fuel systemDucato 2.01990 to 1994

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/Weber	
Type / ref	34PBISA 16PSA425. 170D: 34TBIA	
Main jet / needle	S: 127.5. W: 130±0.10	
Injection pressure	bar	_
Pump pressure	bar	0.25
Octane rating	RON	95[E 95 RON]

Ignition systemDucato 2.01990 to 1994

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	0 @ 1000 to 1300
	° Crankshaft @ rpm	16 to 20 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5000
Vacuum range check	mbar	108 to 535
Maximum vacuum advance	° Crankshaft	12 to 18
Spark plugs	Bosch/Champion	
Type	W7DC / N281YC	
Electrode gap	mm	0.65

Electrical systemDucato 2.01990 to 1994

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm	14.25 / 55 / 3500	
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 gearDucato 2.01990 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	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	WSM
Camber	+1°30' to 2°30' ¹	
Castor	0 to +1° ²	
King pin inclination	_	

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

Torque wrench settingsDucato 2.01990 to 1994

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
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

CapacitiesDucato 2.01990 to 1994

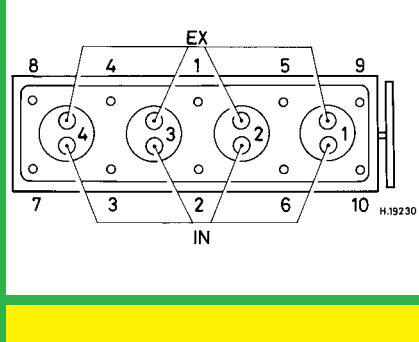
Engine oil & filter	litres	4.6
Gearbox - 4-speed [5-speed]	litres	1.5
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

Notes and Illustrations

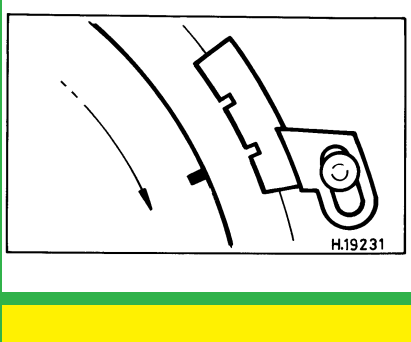
¹Maxi: +2° to 2°30'

²Maxi: 0 to -30'

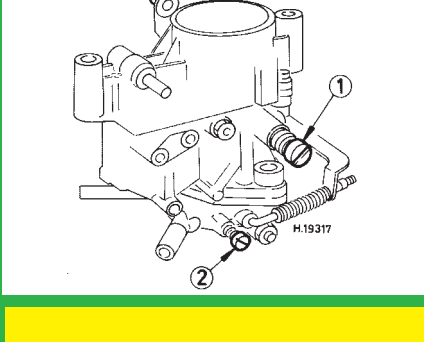
1: Idle speed2: CO / Mixture



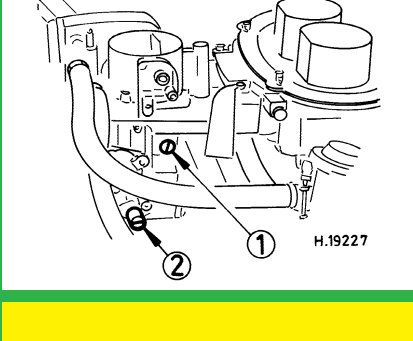
1971 cm³



1971 cm³



Solex 34 PBISA



Solex TBIA