

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemTransit 1.61985 to 1991

Type		LAT (OHC) 47kW
Capacity (cm ³) / number of cylinders		1593 / 4
Compression ratio / pressure	bar	8.2 / 9 to 11
Oil pressure	bar	2.1 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.03
Valve clearance - exhaust	mm	0.25±0.03
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88 to 102
Radiator cap pressure	bar	1.0

Fuel systemTransit 1.61985 to 1991

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Ford
Type / ref		VV. 86HF-9510-KHA
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.26 to 0.34
Octane rating	RON	91[R]

Ignition systemTransit 1.61985 to 1991

Type		Electronic
Ignition coil		Bosch, Femsa, Polmot
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	23 to 39 BTDC @ 2000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 8 @ 1300
	° Crankshaft @ rpm	17 to 26 @ 3000
	° Crankshaft @ rpm	30 to 38 @ 4900
Vacuum range check	mbar	165 to 260
Maximum vacuum advance	° Crankshaft	13 to 21
Spark plugs		Motorcraft/Champion
Type		BF22X / F7YC
Electrode gap	mm	0.75

Electrical systemTransit 1.61985 to 1991

Battery	V / CC / RC	12 / 200 / 70
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 4000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearTransit 1.61985 to 1991

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +1.6
Camber		-30' to +2°30'
Castor		+15' to +4°30'
King pin inclination		—

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

Torque wrench settingsTransit 1.61985 to 1991

Cylinder head - stage 1	Nm	38 N
- stage 2	Nm	73
Cylinder head - stage 3	Nm	Wait 5 min.
- stage 4	Nm	+ 90°
Big-end bearings	Nm	44
Main bearings	Nm	95
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	67
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	5 stud: 75 to 95 ¹
Spark plugs	Nm	24

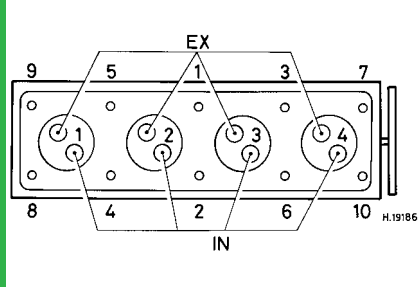
CapacitiesTransit 1.61985 to 1991

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	Type F: 1.5 ²
Automatic transmission - refill	litres	—
Final drive	litres	Type F: 1.4 ³
Cooling system	litres	8.4
Fuel tank	litres	68

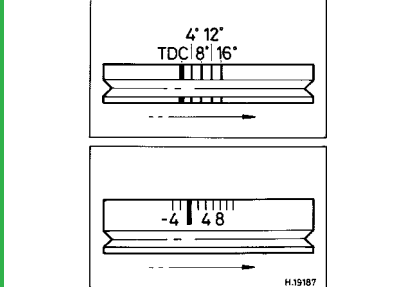
Notes and Illustrations

- ¹6 stud: 155 to 180
- ²Type G transmission: 2.0. MT75: 1.2
- ³Type H axle: 2.7

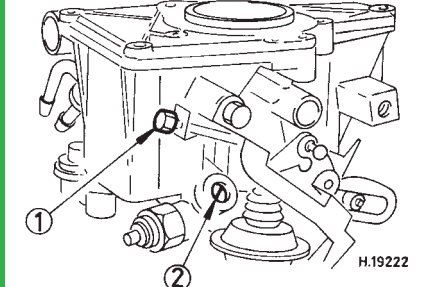
1: Idle speed2: CO / Mixture



1593 cm³



1593 cm³



Ford VV