

Engine & Cooling

Fuel

Ignition

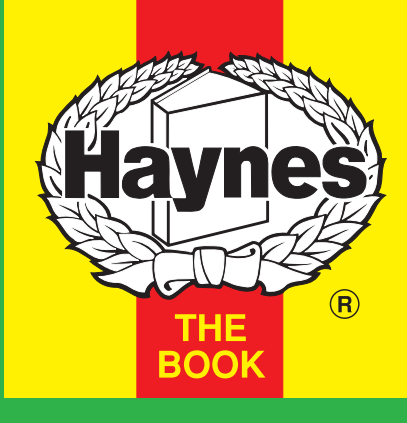
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Transit 2.0

1985 to 1991

Type		NAT (OHC) 57kW [AT: 55kW]
Capacity (cm ³) / number of cylinders		1993 / 4
Compression ratio / pressure	bar	8.2 / 10 to 12
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 system

Transit 2.0

1985 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-KJA
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.26 to 0.34
Octane rating	RON	91[R]

Ignition system

Transit 2.0

1985 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	Dist 86HF-EA: 15 to 32 @ 2000
	° Crankshaft @ rpm	Dist 86HF-CA: 19 to 36 @ 2000
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	86HF-EA: 0 to 9 @ 1480 ¹
	° Crankshaft @ rpm	86HF-EA: 18 to 26 @ 3000 ¹
	° Crankshaft @ rpm	86HF-EA: 30 to 39 @ 5300 ¹
Vacuum range check	mbar	EA: 170 to 260 ²
Maximum vacuum advance	° Crankshaft	86HF-EA: 9 to 17 ²
Spark plugs		Motorcraft/Champion
Type		BF32X / F7YC
Electrode gap	mm	0.75

Electrical system

Transit 2.0

1985 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 gear

Transit 2.0

1985 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: 195x14
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' ³
Castor		+15' to +4°30' ⁴
King pin inclination		—

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

Torque wrench settings

Transit 2.0

1985 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 ⁵
Spark plugs	Nm	24

Capacities

Transit 2.0

1985 to 1991

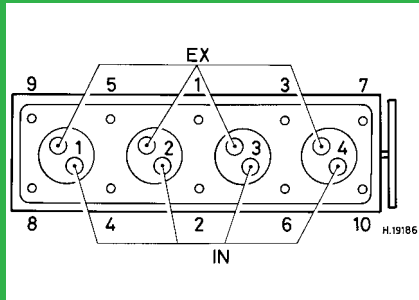
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	Type F: 1.5 ⁶
Automatic transmission - refill	litres	6.3. A4LD: 8.5
Final drive	litres	Type G: 1.7 ⁷
Cooling system	litres	8.4
Fuel tank	litres	68

Notes and Illustrations

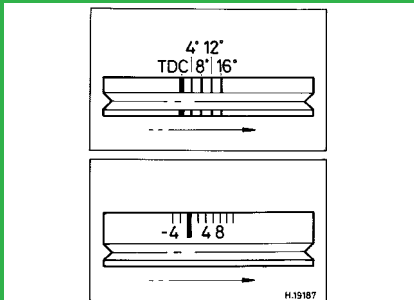
- ¹Distributor type 86HF-CA: 0 to 9 @ 1450, 19 to 26 @ 3040, 30 to 39 @ 5300
- ²86HF-CA: 159 to 260 @ 13 to 21°
- ³MacPherson type only. Beam axle: +30' to 1°30'
- ⁴MacPherson type only. Beam axle: +2°30' to 6°15'
- ⁵6 stud: 155 to 180
- ⁶Type G: 2.0 [Type N: 1.5. MT75: 1.2. Overdrive: 3.1
- ⁷Type H axle: 2.7

1: Idle speed

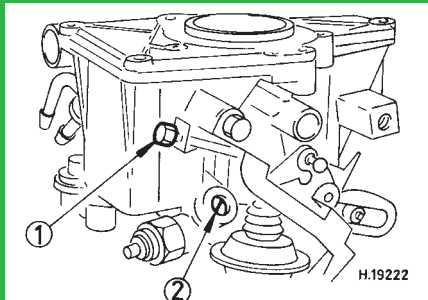
2: CO / Mixture



1993 cm³



1993 cm³



Ford VV