

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

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Engine and cooling system P100 1988 to 1994

Type	NAE (OHC) 57kW	
Capacity (cm ³) / number of cylinders	1993 / 4	
Compression ratio / pressure	bar	8.2 / 10 to 12
Oil pressure	bar	1.0 [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	85 to 89
Radiator cap pressure	bar	1.2 to 1.5

Fuel system P100 1988 to 1994

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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Ford	
Type / ref	VV 86HF-9510-KDA	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	97[RA] ¹

Ignition system P100 1988 to 1994

Type	Electronic - Hall effect	
Ignition coil	—	
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	4 BTDC @ idle ¹
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	19 to 31 @ 2000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	6 to 13 @ 2000
	° Crankshaft @ rpm	18 to 25 @ 3000
	° Crankshaft @ rpm	23 to 29 @ 4000
Vacuum range check	mbar	0 to 300
Maximum vacuum advance	° Crankshaft	19 to 25
Spark plugs	Motorcraft/Champion	
Type	BRF32C / F7YC	
Electrode gap	mm	0.75

Electrical system P100 1988 to 1994

Battery	V / CC / RC	12 / 360 / 60
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 P100 1988 to 1994

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	1.8 / 2.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5 to +4.5
Camber	+55'+1°-1°30'	
Castor	+1°48'+1°30'-1°	
King pin inclination	—	

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

Torque wrench settings P100 1988 to 1994

Cylinder head - stage 1	Nm	35 to 40
- stage 2	Nm	70 to 75
Cylinder head - stage 3	Nm	Wait 5 min.
- stage 4	Nm	+ 90°
Big-end bearings	Nm	40 to 47
Main bearings	Nm	88 to 102
Clutch cover	Nm	20 to 25 ²
Flywheel [driveplate]	Nm	68 to 74
Front hubs	Nm	390 to 450
Rear hubs	Nm	280 to 300
Wheel nuts / bolts	Nm	85 to 90
Spark plugs	Nm	20 to 28

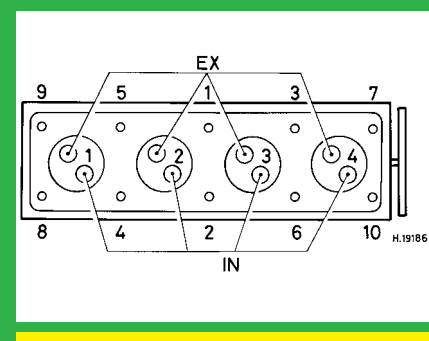
Capacities P100 1988 to 1994

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.25. MT75: 1.2
Automatic transmission - refill	litres	—
Final drive	litres	1.4
Cooling system	litres	8.0
Fuel tank	litres	66

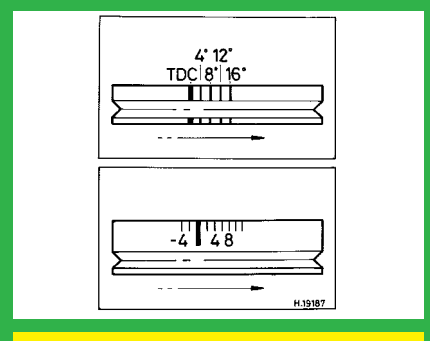
Notes and Illustrations

¹[E 95 RON]: 2° BTDC @ idle
²Build code KP (4.89) ▶: 25 to 33

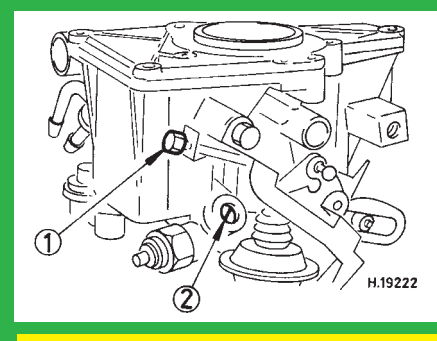
1: Idle speed 2: CO / Mixture



1993 cm³



1993 cm³



Ford VV