

1988 to 1994

Engine & Cooling

Fuel

Ignition

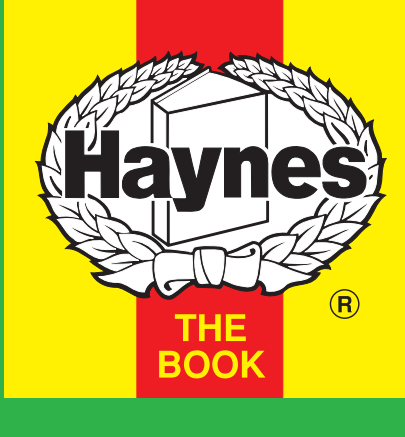
Electrical

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.

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HELP

Engine and cooling system

P100

1988 to 1994

Type		NAE (OHC) 57kW
Capacity (cm³) / 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
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-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

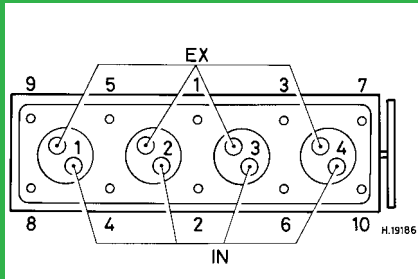
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.25. MT75: 1.2
Automatic transmission - refill	litres	—
Final drive	litres	1.4
Cooling system	litres	8.0
Fuel tank	litres	66

Notes and Illustrations

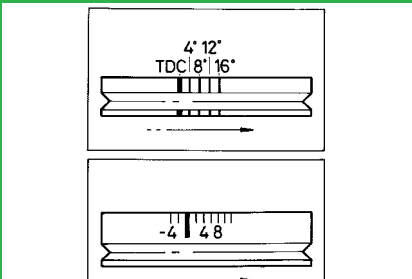
¹[E 95 RON]: 2° BTDC @ idle

²Build code KP (4.89) ►: 25 to 33

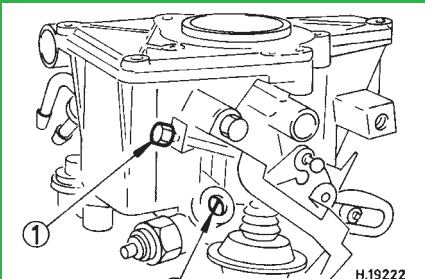
1: Idle speed 2: CO / Mixture



1993 cm³



1993 cm³



Ford VV