

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system4 / 4, 1.8i CAT1993 to 1997

Type	Ford Zetec 16V US83 89kW	
Capacity (cm³) / number of cylinders	1796 / 4	
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[3.0 to 4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.90

Fuel system4 / 4, 1.8i CAT1993 to 1997

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	Ford EEC IV / SEFI	
Main jet / needle	_	
Injection pressure	bar	2.1±0.2
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system4 / 4, 1.8i CAT1993 to 1997

Type	Distributorless	
Ignition coil	High output DIS	
Primary resistance	ohms	0.50±0.05
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	_	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900±50N/A
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs	Motorcraft	
Type	AYRF22PP	
Electrode gap	mm	1.30

Electrical system4 / 4, 1.8i CAT1993 to 1997

Battery	V / CC / RC	12 / 35Ah
Alternator voltage / full load current / engine rpm	13.7 to 14.6 / 45 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear4 / 4, 1.8i CAT1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	165x15: 195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.5 / 1.5
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +3.0
Camber	+2°. 195/60x15: -0.5°	
Castor	+4° N/A	
King pin inclination	+2°	

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

Torque wrench settings4 / 4, 1.8i CAT1993 to 1997

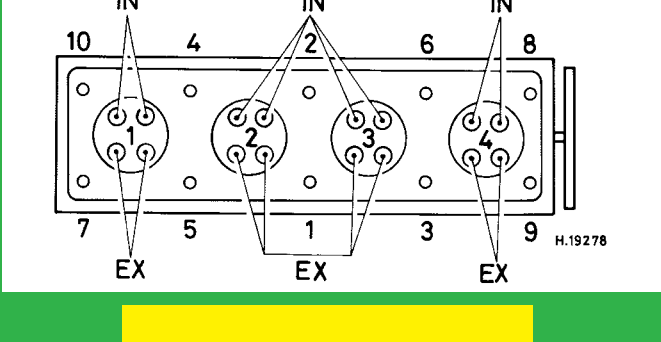
Cylinder head - stage 1	Nm	20 to 30 N
- stage 2	Nm	40 to 50
Cylinder head - stage 3	Nm	+ 90 to 120°
- stage 4	Nm	_
Big-end bearings	Nm	15 to 20 + 90°
Main bearings	Nm	70 to 90
Clutch cover	Nm	25 to 34
Flywheel [driveplate]	Nm	107 to 117
Front hubs	Nm	WSM
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	14 to 20

Capacities4 / 4, 1.8i CAT1993 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	_
Final drive	litres	1.0
Cooling system	litres	12.5
Fuel tank	litres	50

Notes and Illustrations

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1796 cm³