

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

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HELP

Engine and cooling system Fiesta 1.6i & CAT 1989 to 1992

Type		LUC CVH 81kW. 15.04 ¹
Capacity (cm ³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.75 / 12 to 14
Oil pressure	bar	1.0 [2.8]
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	1.0

Fuel system Fiesta 1.6i & CAT 1989 to 1992

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.8±0.25. CAT: ≤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		EEC IV, Weber injectors
Main jet / needle		—
Injection pressure	bar	2.3 to 2.5
Pump pressure	bar	3.0±0.1
Octane rating	RON	95[E 95 RON] ²

Ignition system Fiesta 1.6i & CAT 1989 to 1992

Type		E-DIS 4
Ignition coil		High output DIS
Primary resistance	ohms	4.5 to 5.0
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±2 BTDC] N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° 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/Champion
Type		AGPR22CD1 / C6YCC
Electrode gap	mm	1.00

Electrical system Fiesta 1.6i & CAT 1989 to 1992

Battery	V / CC / RC	12 / 360 / 60, 500/70
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 50,70,90 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Fiesta 1.6i & CAT 1989 to 1992

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

Tyres		
Saloon	Size	185/60x13: 185/55x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.8 ³
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0 ⁴
Camber		+13'±1°15' ⁵
Castor		+45'±1° ⁶
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+0.7±2.0 ⁷
Camber		-1°1'+30'-1° ⁸

Torque wrench settings Fiesta 1.6i & CAT 1989 to 1992

Cylinder head - stage 1	Nm	20 to 40
- stage 2	Nm	40 to 60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 to 36
Main bearings	Nm	90 to 100
Clutch cover	Nm	25 to 34
Flywheel [driveplate]	Nm	82 to 92
Front hubs	Nm	205 to 235
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	17 to 33

Capacities Fiesta 1.6i & CAT 1989 to 1992

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	42

Notes and Illustrations

¹CAT: LUD CVH 76kW US83

²CAT: 95 [U]

³185/55x14: 2.0 / 2.0

⁴90 ▶: -2.0±1.0

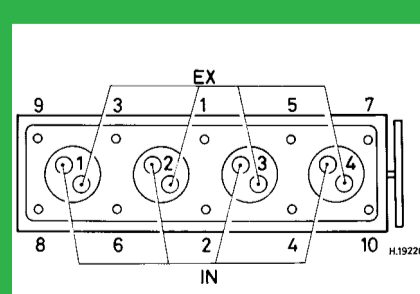
⁵90 ▶: -4'±1°20'. 91 ▶: +1°4'±1°20'

⁶90 ▶: +56'±1°15'. 91 ▶: +14'±1°15'

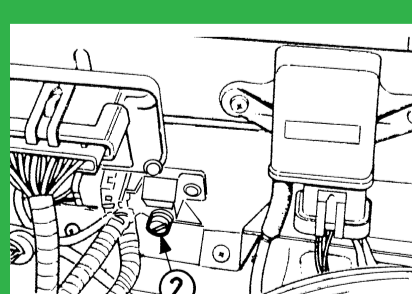
⁷4.90 ▶: +2.3±2.0

⁸4.90 ▶: -1°+30'-1°

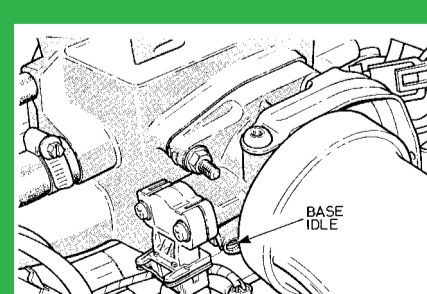
1: Idle speed 2: CO / Mixture



1597 cm³, CVH



EEC IV, Weber



EEC IV, Weber