

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemFiesta Turbo1990 to 1992

Type		LHA (CVH EFI) 15.04 96kW
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	8.0 / 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	1.2

Fuel systemFiesta Turbo1990 to 1992

Idle speed - manual [auto]	rpm	900±50. Base idle: 750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.25
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		EEC IV, Weber injectors
Main jet / needle		—
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≥3.0
Octane rating	RON	97[E 95 RON]

Ignition systemFiesta Turbo1990 to 1992

Type		E-DIS 4
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±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		AGPR902C1 / C61YC
Electrode gap	mm	1.00

Electrical systemFiesta Turbo1990 to 1992

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 4000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearFiesta Turbo1990 to 1992

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

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

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0±1.0 U/L
Camber		-8'±1°20'¹
Castor		+53'±1°15'²
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.3±2.0
Camber		-1°+30'-1°

Torque wrench settingsFiesta Turbo1990 to 1992

Cylinder head - stage 1	Nm	20 to 40
- stage 2	Nm	55
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

CapacitiesFiesta Turbo1990 to 1992

Engine oil & filter	litres	3.6
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

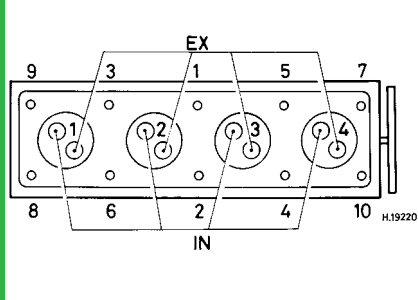
Notes and Illustrations

¹91° ►: -1°4'±1°20'

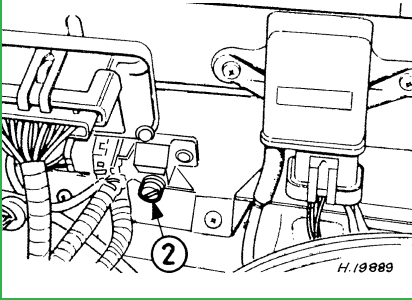
²91° ►: +14'±1°15'

1: Idle speed

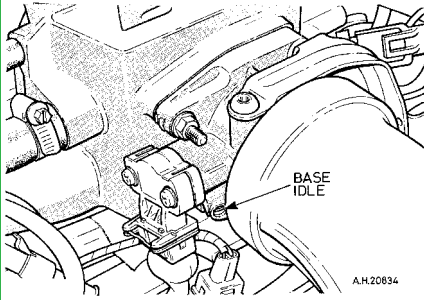
2: CO / Mixture



1597 cm³, CVH



EEC IV, Weber



EEC IV, Weber