

Engine & Cooling

Fuel

Ignition

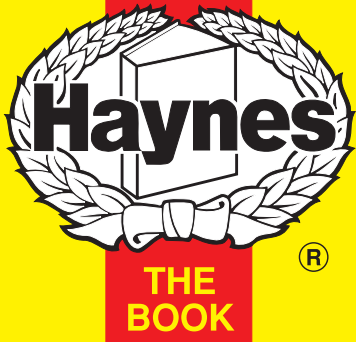
Electrical

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Automotive Technical

DATA BOOK

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HELP

Engine and cooling system

Fiesta 1.0 & Van

1989 to 1993

Type		TLB HCS 33kW. 15.04
Capacity (cm ³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.5 / 13 to 16
Oil pressure	bar	0.6 [1.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 to 0.25
Valve clearance - exhaust	mm	0.30 to 0.35
Firing order		1-2-4-3
No 1 cylinder position		TCE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.0

Fuel system

Fiesta 1.0 & Van

1989 to 1993

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	3400±100
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		Weber
Type / ref		TLM (1V)
Main jet / needle		110
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	95[E 95 RON]

Ignition system

Fiesta 1.0 & Van

1989 to 1993

Type		DIS
Ignition coil		—
Primary resistance	ohms	0.5 to 1.0
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 BTDC]
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	UESC control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	UESC control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Motorcraft/Champion
Type		AGRF22C1 / RS9YC
Electrode gap	mm	1.00

Electrical system

Fiesta 1.0 & Van

1989 to 1993

Battery	V / CC / RC	12 / 270 / 50, 360 / 60,500/70
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 50, 70 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Fiesta 1.0 & Van

1989 to 1993

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

Tyres		
Saloon	Size	135x13
Estate / Van	Size	135x13
Pressure - front / rear - Saloon	bar	2.1 / 2.0
- Estate / Van	bar	2.1 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0 ¹
Camber		+25'±1°15' ²
Castor		+23'±1° ³
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.2±2.0 ⁴
Camber		-1°1'+30'-1° ⁵

Torque wrench settings

Fiesta 1.0 & Van

1989 to 1993

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	4 + 90°
Main bearings	Nm	88 to 102
Clutch cover	Nm	24 to 35
Flywheel [driveplate]	Nm	64 to 70
Front hubs	Nm	205 to 235
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	14 to 20

Capacities

Fiesta 1.0 & Van

1989 to 1993

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.1
Fuel tank	litres	42

Notes and Illustrations

¹90 ►: -2.0±1.0

²90 ►: -8'±1°20'. Van: -3'±1°20'

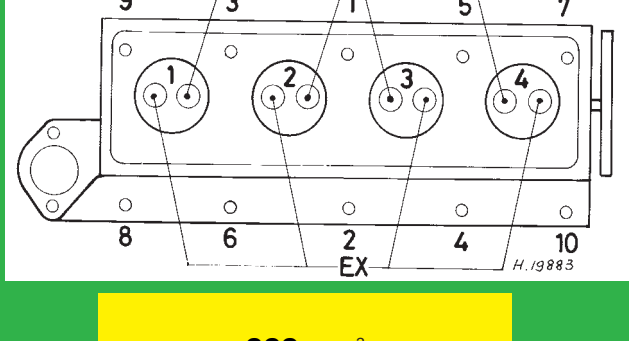
³90 ►: +53'±1°15'. Van: +51'±1°15'

⁴90 ►: +2.3±2.0

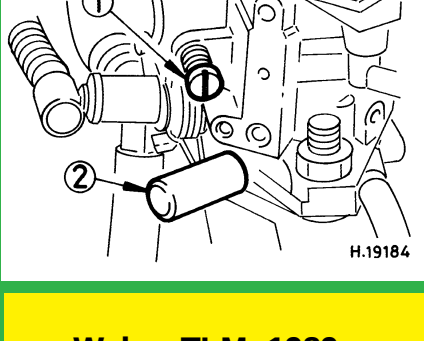
⁵90 ►: -1°+30'-1°

1: Idle speed

2: CO / Mixture



999 cm³



Weber TLM, 1989►