

Engine & Cooling

Fuel

Ignition

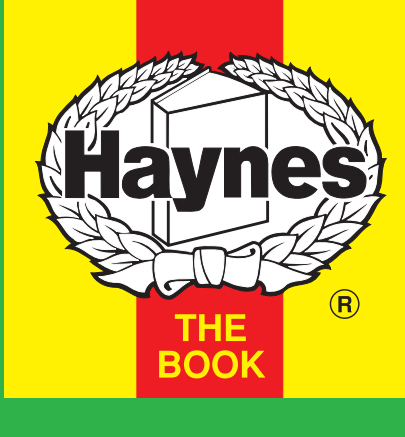
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Fiesta 1.1 & Van

1989 to 1994

Type		GUE HCS 40kW. 15.04 ¹
Capacity (cm ³) / number of cylinders		1119 / 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 1.1 & Van

1989 to 1994

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	2800 [2600]
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		Weber
Type / ref		TLDM 89BF-9510-BA [CA]. GUD EA
Main jet / needle		92, 122 [92, 112]
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	95[E 95 RON]

Ignition system

Fiesta 1.1 & Van

1989 to 1994

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	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Motorcraft/Champion
Type		AGRF22C1 / RS9YC
Electrode gap	mm	1.00

Electrical system

Fiesta 1.1 & Van

1989 to 1994

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 1.1 & Van

1989 to 1994

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

Tyres		
Saloon	Size	145x13: 155/70x13: 165/65x13
Estate / Van	Size	145x13
Pressure - front / rear - Saloon	bar	1.8 / 1.8 ²
- Estate / Van	bar	1.8 / 1.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0 ³
Camber		+25'±1°15' [+12'±1°15'] ⁴
Castor		+23'±1° [+18'±1°] ⁵
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.2±2.0 ⁶
Camber		-1°1'+30'-1° ⁷

Torque wrench settings

Fiesta 1.1 & Van

1989 to 1994

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 1.1 & Van

1989 to 1994

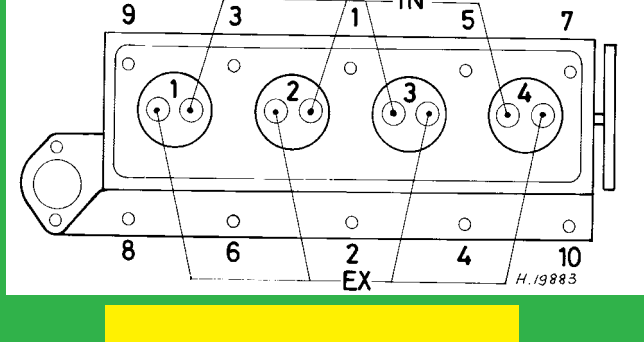
Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	7.1
Fuel tank	litres	42

Notes and Illustrations

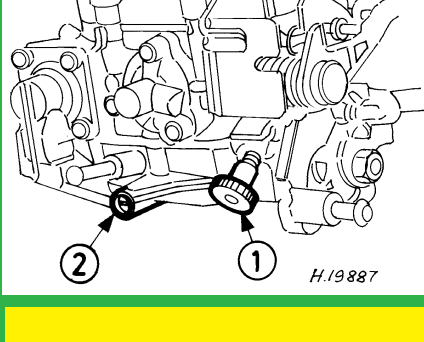
- ¹Also: GUD HCS 40kW 15.05
- ²155/70x13: 2.0 / 1.8
- ³90 ►: -2.0±1.0
- ⁴90 ►: -8'±1°20'. S: +22'±1°15'. Van: -3'±1°20'. 92 ► -9'±1°20'. Van: -6'±1°20'
- ⁵90 ►: +53'±1°15'. S: +36'±1°. Van: +51'±1°15'. 92 ► +52'±1°15'. Van: +53'±1°15'
- ⁶S: +0.5±2.0. 4.90 ►: +2.3±2.0
- ⁷4.90 ►: -1°+30'-1°

1: Idle speed

2: CO / Mixture



1119 cm³



Weber TLDM