

Engine & Cooling

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Automotive Technical
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Engine and cooling systemFelicia / Foreman/Freeway 1.3i1995 to 1997

Type		135B / 136B OHV 8V 40 / 50kW
Capacity (cm³) / number of cylinders		1289 / 4
Compression ratio / pressure	bar	135B: 8.8. 136B: 9.7 / _
Oil pressure	bar	[3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 to 0.25
- exhaust	mm	0.20 to 0.25
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.90 to 1.10

Fuel systemFelicia / Foreman/Freeway 1.3i1995 to 1997

Idle speed - manual [auto]	rpm	750 to 850 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
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		Mono-Motronic
Main jet / needle		_
Injection pressure	bar	0.80 to 1.20
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemFelicia / Foreman/Freeway 1.3i1995 to 1997

Type		Motronic
Ignition coil		_
Primary resistance	ohms	0.5 to 0.7
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	Computer control N/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		Bosch/NGK
Type		FR8DC / BCPR5ES¹
Electrode gap	mm	0.70 to 0.80

Electrical systemFelicia / Foreman/Freeway 1.3i1995 to 1997

Battery	V / CC / RC	12 / 44Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / 55 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearFelicia / Foreman/Freeway 1.3i1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.0±1.0
Camber		30'±30'
Castor		1°20'±45'
King pin inclination		11°45'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.2±1.4
Camber		-1°24'±30'

Torque wrench settingsFelicia / Foreman/Freeway 1.3i1995 to 1997

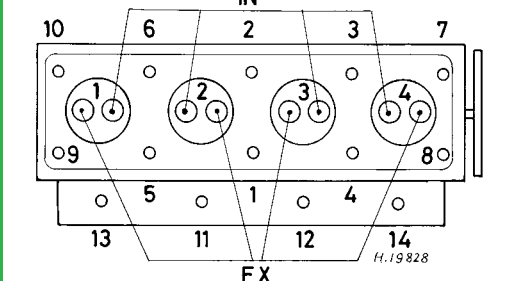
Cylinder head - stage 1	Nm	17 to 20
- stage 2	Nm	+90°
- stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	75
Clutch cover	Nm	23 to 28
Flywheel [driveplate]	Nm	_
Front hubs	Nm	300
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

CapacitiesFelicia / Foreman/Freeway 1.3i1995 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	42

Notes and Illustrations

¹136B: FR7DC / BKR6ES



1289 cm³