

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Favorit/Foreman 135/136 CAT

1992 to 1996

Type		135/136 OHV 40/50kW
Capacity (cm³) / number of cylinders		1289 / 4
Compression ratio / pressure	bar	135: 8.8. 136: 9.5 / _
Oil pressure	bar	[4.1 to 5.5]
Oil temperature	°C	70
Valve clearance - inlet	mm	0.20. Alloy: 0.25
- exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88 to 103
Radiator cap pressure	bar	1.00

Fuel system

Favorit/Foreman 135/136 CAT

1992 to 1996

Idle speed - manual [auto]	rpm	900 to 950. 136: 750 to 850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.15
HC @ idle speed [3000 rpm] - see page VI	ppm	80
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	0.75
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Favorit/Foreman 135/136 CAT

1992 to 1996

Type		Motronic
Ignition coil		Renix 5100 620005
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	14 BTDC @ 900
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	40 @ 4500
	° 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		Champion
Type		RC12YC
Electrode gap	mm	0.60 to 0.90

Electrical system

Favorit/Foreman 135/136 CAT

1992 to 1996

Battery	V / CC / RC	12 / 42Ah
Alternator voltage / full load current / engine rpm		14.0 / 55 / 3000
Starter motor current / voltage - cranking	A / V	150 to 210 / 9.5
- locked	A / V	340 / 8.0

Running gear

Favorit/Foreman 135/136 CAT

1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	8.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	165/70x13
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	1.9 / 1.8

Front suspension / wheel alignment

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

Rear suspension / wheel alignment

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

Torque wrench settings

Favorit/Foreman 135/136 CAT

1992 to 1996

Cylinder head - stage 1	Nm	BOLTS: 17 to 20
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	NUTS: 20 to 26
Big-end bearings	Nm	36 to 40
Main bearings	Nm	60mm pin:50 to 55 ¹
Clutch cover	Nm	23 to 28
Flywheel [driveplate]	Nm	55 to 65
Front hubs	Nm	240 to 270
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	60 to 70
Spark plugs	Nm	20 to 30 ²

Capacities

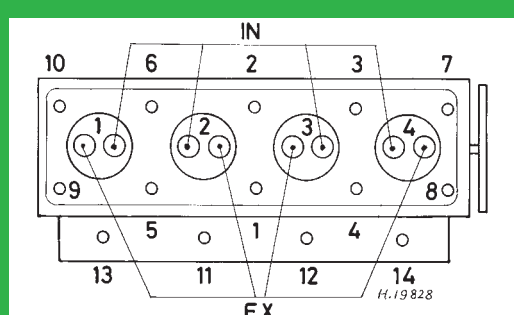
Favorit/Foreman 135/136 CAT

1992 to 1996

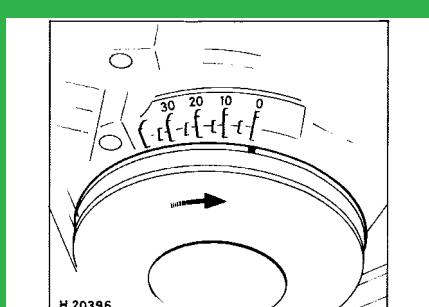
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.1
Fuel tank	litres	42

Notes and Illustrations

- ¹M11: 65 to 75
- ²Flat seat only. Taper seat: 10 to 14



1289 cm³



1289 cm³