

Engine & Cooling

Fuel

Ignition

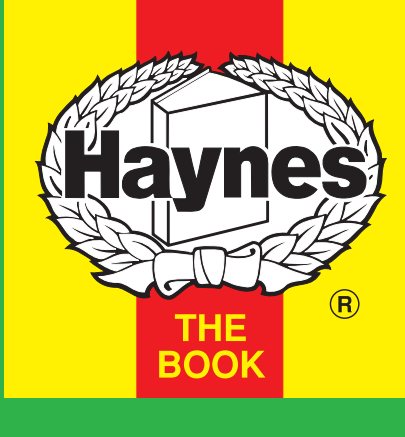
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemFavorit 136 & Van1989 to 1992

Type		136 OHV 46kW 15.04
Capacity (cm³) / number of cylinders		1289 / 4
Compression ratio / pressure	bar	9.7 / ≥11.0
Oil pressure	bar	[4.1 to 5.5]
Oil temperature	°C	70
Valve clearance - inlet	mm	0.20
- 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	1.0

Fuel systemFavorit 136 & Van1989 to 1992

Idle speed - manual [auto]	rpm	780 to 830
Fast idle speed - manual [auto]	rpm	2300
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤500
CO2 @ idle speed [3000 rpm] - see page VI	%	13 to 15
O2 @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
Carburettor / fuel injection		Pierburg/Jikov
Type / ref		P: 2E3. J: 28-30 LEKR
Main jet / needle		92.5, 120
Injection pressure	bar	—
Pump pressure	bar	0.30
Octane rating	RON	96[E 95 RON]

Ignition systemFavorit 136 & Van1989 to 1992

Type		Electronic
Ignition coil		Pal-Magneton 443 212 215 820
Primary resistance	ohms	0.6
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Pal-Magnetron
Points gap (air gap)	mm	[0.30]
Dwell angle	° (%)	5 to 40
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 750 to 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	3 to 7 @ 750 to 850
	° Crankshaft @ rpm	14 to 35 @ 2900 to 3100
	° Crankshaft @ rpm	23 to 40 @ 4100 to 4300
Vacuum range check	mbar	102 to 227¹
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Champion
Type		C7YC, RC7YC
Electrode gap	mm	0.60 to 0.70

Electrical systemFavorit 136 & Van1989 to 1992

Battery	V / CC / RC	12 / 40Ah
Alternator voltage / full load current / engine rpm		13.4 to 14.3 / 55 / 3000
Starter motor current / voltage - cranking	A / V	150 to 210 / 9.5
- locked	A / V	340 / 8.0

Running gearFavorit 136 & Van1989 to 1992

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 settingsFavorit 136 & Van1989 to 1992

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 55²
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 30³

CapacitiesFavorit 136 & Van1989 to 1992

Engine oil & filter	litres	4.0 [+ cooler 0.6]
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	47

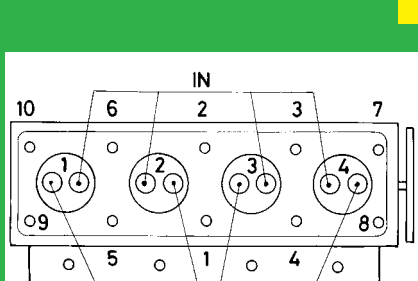
Notes and Illustrations

¹8.90 ►, distributor no. 443 213 204 860: 150 to 350

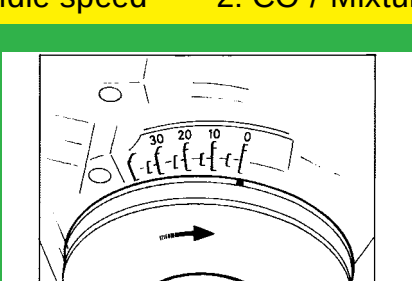
²M11: 65 to 75

³Flat seat only. Taper seat: 10 to 14

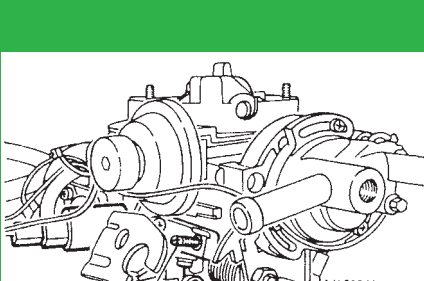
1: Idle speed 2: CO / Mixture



1289 cm³



1289 cm³



Pierburg 2E3 / Jikov LEKR