Haynes THE BOOK

Automotive Technical DATA BOOK

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Engine and cooling system

		E500 (124.036) 1992 to 1995
Type		119.974 V8 235kW
Capacity (cm³) / number of cylinders		4973 / 8
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	0.3 [3.0]
Oil temperature	ºC	90
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-4-8-6-3-7-2
No 1 cylinder position		FR
Thermostat opening temperature	ºC	84±2
Radiator cap pressure	bar	1.4±0.1

Fuel system

		E500 (124.036) 1992 to 1995
Idle speed - manual [auto]	rpm	600 to 750
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LH Electronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

		E500 (124.036) 1992 to 1995
Type		EZL
Ignition coil		Bosch
Primary resistance	ohms	0.3 to 0.6
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	Battery
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	14 to 18 BTDC @ 600 to 750 N/A
V = Vacuum NV = No Vacuum		V
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Bosch/Champion
Type		F8DCO / C10YCC
Electrode gap	mm	0.80

Electrical system

		E500 (124.036) 1992 to 1995
Battery	V / CC / RC	12 / 190 / 62Ah
Alternator voltage / full load current / engine rpm		14.0 / 80 / 2490
Starter motor current / voltage - cranking	A / V	95 / 11.5 (no load)
- locked	A / V	650 to 840 / 3.8

Running gear

		E500 (124.036) 1992 to 1995
Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	225/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.4
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+20'±10']
Camber		-1°±10'
Castor		+10°50'±30'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+20' to 35']
Camber		-1°30'±30'

Torque wrench settings

		E500 (124.036) 1992 to 1995
Cylinder head - stage 1	Nm	55[1]
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	45 + 90 to 100°
Main bearings	Nm	50
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	35 + 90 to 100°
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

		E500 (124.036) 1992 to 1995
Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	_
Final drive	litres	_
Cooling system	litres	12.5
Fuel tank	litres	70

Notes and Illustrations

[1]**Bolts marked "a" on diagram: 25**