

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system 505 V6 1986 to 1989

Type	ZN3J (154F) (122kW)	
Capacity (cm ³) / number of cylinders	2849 / 6	
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	2.0 [5.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order	1-6-3-5-2-4	
No 1 cylinder position	FEL	
Thermostat opening temperature	°C	83
Radiator cap pressure	bar	0.8 [AT: 1.0]

Fuel system 505 V6 1986 to 1989

Idle speed - manual [auto]	rpm	750 to 800 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.8 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥10.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	LH 2.2 Jetronic	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	97[E 95 RON]

Ignition system 505 V6 1986 to 1989

Type	AEI	
Ignition coil	Bosch 0 227 118 387	
Primary resistance	ohms	0.72
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	≥11.0
Distributor	Bosch ¹	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	N/A
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	Bosch/Champion	
Type	HR5DC / S7YCC	
Electrode gap	mm	0.80

Electrical system 505 V6 1986 to 1989

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm	13.8 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear 505 V6 1986 to 1989

Brakes -		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	_
Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0
Camber		-1°20'±30'
Castor		+3°±30'
King pin inclination		+12°35'±30'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3±1.0
Camber		-1°±30'

Torque wrench settings 505 V6 1986 to 1989

Cylinder head - stage 1	Nm	60, slacken in turn
- stage 2	Nm	20 + 105°
Cylinder head - stage 3	Nm	Warm up & cool 2 hours
- stage 4	Nm	+ 45°
Big-end bearings	Nm	48 ²
Main bearings	Nm	30 + 75°
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	45
Front hubs	Nm	WSM
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	_

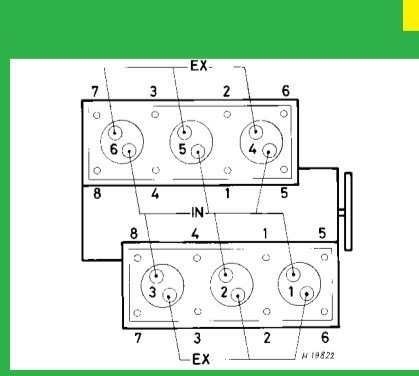
Capacities 505 V6 1986 to 1989

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.6
Final drive	litres	1.6
Cooling system	litres	9.5
Fuel tank	litres	70

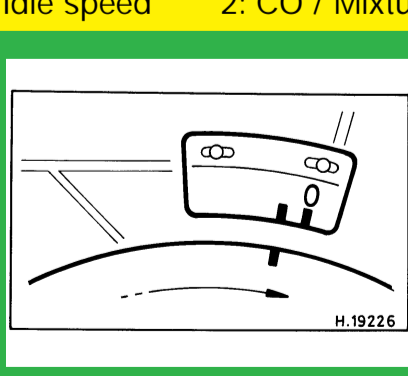
Notes and Illustrations

- ¹Bosch EZ 115K system
- ²Engine no. 10542 ▶: 25 + 75°

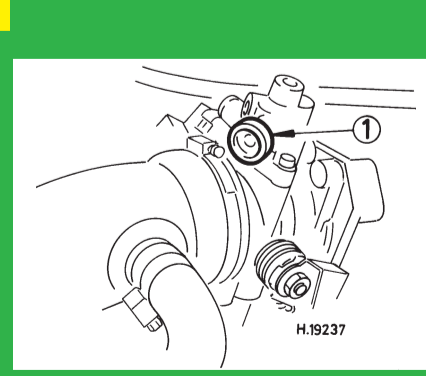
1: Idle speed 2: CO / Mixture



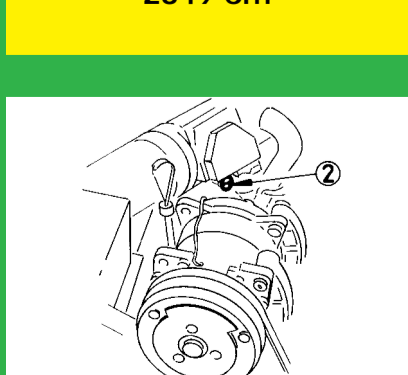
2849 cm³



2849 cm³



LH2.2-Jetronic



LH2.2-Jetronic