

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

505 V61986 to 1989

Type		ZN3J (154F) (122kW)
Capacity (cm³) / 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 V61986 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
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ 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 V61986 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 V61986 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 V61986 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 V61986 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 V61986 to 1989

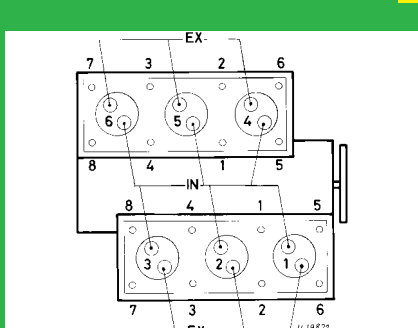
Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.6
Final drive	litres	1.6
Cooling system	litres	9.5
Fuel tank	litres	70

Notes and Illustrations

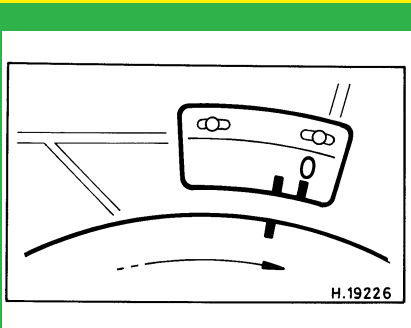
¹Bosch EZ 115K system

²Engine no. 10542 ►: 25 + 75°

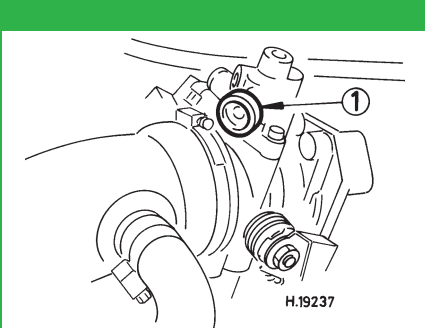
1: Idle speed2: CO / Mixture



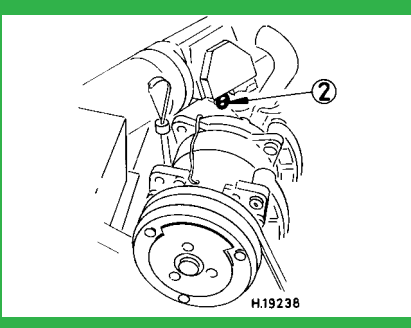
2849 cm³



2849 cm³



LH2.2-Jetronic



LH2.2-Jetronic