

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

505, 2.2 Turbo

1986 to 1988

Type		N9TEA (176C) 123kW
Capacity (cm³) / number of cylinders		2155 / 4
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	1.5 [2.7]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.30
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	83 to 95
Radiator cap pressure	bar	1.0

Fuel system

505, 2.2 Turbo

1986 to 1988

Idle speed - manual [auto]	rpm	900 to 950
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		L-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.3 to 2.7
Octane rating	RON	97[R]

Ignition system

505, 2.2 Turbo

1986 to 1988

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	44 BTDC @ 4000
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		
Type		_
Electrode gap	mm	0.80

Electrical system

505, 2.2 Turbo

1986 to 1988

Battery	V / CC / RC	(12L2 225)
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, 2.2 Turbo

1986 to 1988

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

Tyres		
Saloon	Size	185/65x15: 195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	_
- 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 [°]	+3.0±1.0
Camber		-1°±30'

Torque wrench settings

505, 2.2 Turbo

1986 to 1988

Cylinder head - stage 1	Nm	50
- stage 2	Nm	85
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	65
Main bearings	Nm	110
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	80
Front hubs	Nm	WSM
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	30

Capacities

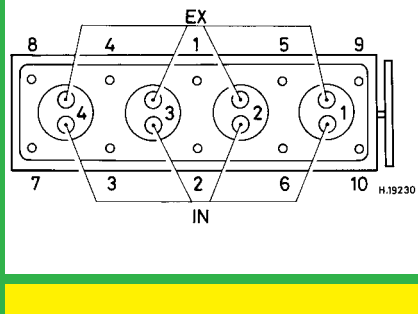
505, 2.2 Turbo

1986 to 1988

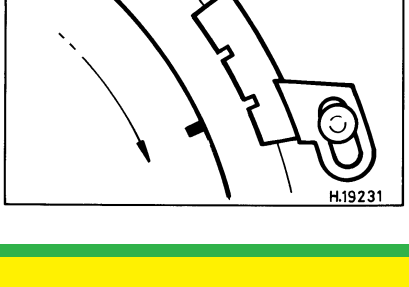
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	1.85
Automatic transmission - refill	litres	_
Final drive	litres	1.6
Cooling system	litres	9.5
Fuel tank	litres	70

Notes and Illustrations

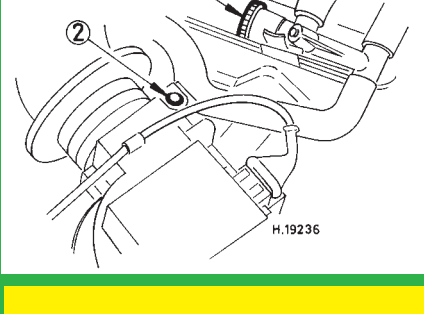
1: Idle speed 2: CO / Mixture



2155 cm³



2155 cm³



L-Jetronic