

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 system911 Turbo1977 to 1989

Type		930/60/66
Capacity (cm³) / number of cylinders		3299 / 6
Compression ratio / pressure	bar	7.0 / _
Oil pressure	bar	[5.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.10
Firing order		1-6-2-4-3-5
No 1 cylinder position		PEL
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	_

Fuel system911 Turbo1977 to 1989

Idle speed - manual [auto]	rpm	1000±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	3.0±1. 82 ▶: 2.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		K-Jetronic + Turbo
Main jet / needle		_
Injection pressure	bar	2.7 to 3.1
Pump pressure	bar	6.0 to 6.7
Octane rating	RON	98[L]

Ignition system911 Turbo1977 to 1989

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	0.4 to 0.7
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	28+2 BTDC @ 4000
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	11 to 13 @ 3450
Vacuum range check	mbar	0 to 267
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Bosch/Champion
Type		W3DP / N2G
Electrode gap	mm	0.70

Electrical system911 Turbo1977 to 1989

Battery	V / CC / RC	12 / 395 / 150
Alternator voltage / full load current / engine rpm		_
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear911 Turbo1977 to 1989

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	205/55x16: 225/50x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 3.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 [82 ▶: +15'±5']
Camber		0±10'
Castor		+6°5'±15'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-50'±10' [82 to 84: -30']¹

Torque wrench settings911 Turbo1977 to 1989

Cylinder head - stage 1	Nm	32
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	50 to 55
Main bearings	Nm	Crankcase: 35
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	90
Front hubs	Nm	WSM
Rear hubs	Nm	Castle nut: 310²
Wheel nuts / bolts	Nm	130
Spark plugs	Nm	25 to 30

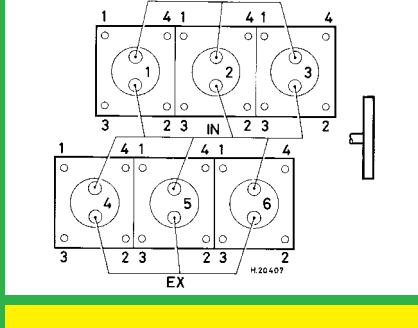
Capacities911 Turbo1977 to 1989

Engine oil & filter	litres	10.0
Gearbox - 4-speed [5-speed]	litres	3.1. 84 ▶: 3.7
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	_
Fuel tank	litres	80. 85 ▶: 85

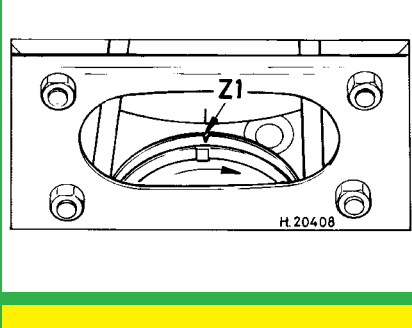
Notes and Illustrations

¹84 ▶: -1°±10'
²Self-locking nut: 460

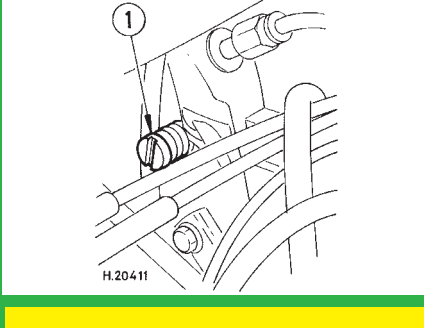
1: Idle speed 2: CO / Mixture



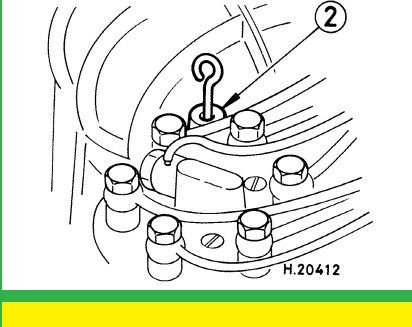
3299 cm³



3299 cm³



K-Jetronic



K-Jetronic