

Engine & Cooling

Fuel

Ignition

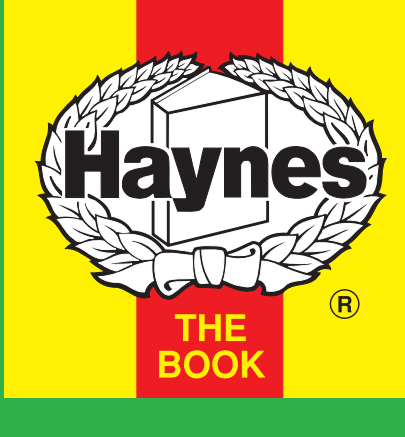
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

911 Turbo CAT

1990 to 1993

Type		M30/69 235kW
Capacity (cm ³) / number of cylinders		3299 / 6
Compression ratio / pressure	bar	7.0 / _
Oil pressure	bar	[4.5]
Oil temperature	°C	80 to 100
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 system

911 Turbo CAT

1990 to 1993

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.8±0.2 (lambda off)
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		CIS 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	95[U]

Ignition system

911 Turbo CAT

1990 to 1993

Type		DME Motronic
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	0±3 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
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
Type		WR4DPO
Electrode gap	mm	0.60

Electrical system

911 Turbo CAT

1990 to 1993

Battery	V / CC / RC	12 / 72Ah
Alternator voltage / full load current / engine rpm		_
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

911 Turbo CAT

1990 to 1993

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

Tyres		
Saloon	Size	205/55x17: 255/40x17
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.5
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+25'±5']
Camber		0±10'
Castor		+4°25'±15'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+15'±5'] PW
Camber		-45'±10'

Torque wrench settings

911 Turbo CAT

1990 to 1993

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: 310 ¹
Wheel nuts / bolts	Nm	130
Spark plugs	Nm	25 to 30

Capacities

911 Turbo CAT

1990 to 1993

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

Notes and Illustrations

¹Self-locking nut: 460

