Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — 911 Carrera 2 & 4 — 1988 to 1990

Type		M64/01
Capacity (cm³) / number of cylinders		3600 / 6
Compression ratio / pressure	bar	11.3 / _
Oil pressure	bar	[3.5]
Oil temperature	ºC	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	ºC	_
Radiator cap pressure	bar	_

Fuel system — 911 Carrera 2 & 4 — 1988 to 1990

Idle speed - manual [auto]	rpm	880±40
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 1.2
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		DME Sequential Motronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.6 to 4.0
Octane rating	RON	95[E 95 RON]

Ignition system — 911 Carrera 2 & 4 — 1988 to 1990

Type		DME Motronic[1]
Ignition coil		2x 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	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Bosch/Champion
Type		FR5DTC / RC6BYC
Electrode gap	mm	0.80

Electrical system — 911 Carrera 2 & 4 — 1988 to 1990

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 Carrera 2 & 4 — 1988 to 1990

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5
Tyres		
Saloon	Size	205/55x16: 225/50x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 3.0
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[-15'±5']
Camber		0±10'
Castor		+4°10'±15'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+10'±5'] PW
Camber		-20'±10'

Torque wrench settings — 911 Carrera 2 & 4 — 1988 to 1990

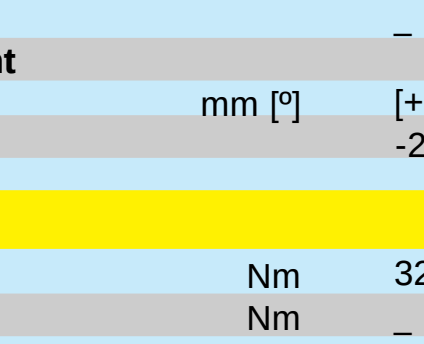
Cylinder head - stage 1	Nm	32
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	50 to 55
Main bearings	Nm	Crankcase: 35
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	90
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	130
Spark plugs	Nm	25 to 30

Capacities — 911 Carrera 2 & 4 — 1988 to 1990

Engine oil & filter	litres	11.5
Gearbox - 4-speed [5-speed]	litres	3.8
Automatic transmission - refill	litres	_
Final drive	litres	WT[2]
Cooling system	litres	_
Fuel tank	litres	77

Notes and Illustrations

[1]**Twin spark ignition system with knock control**
[2]**Carrera 4: Rear: WT. Front: 1.2**



3600 cm³