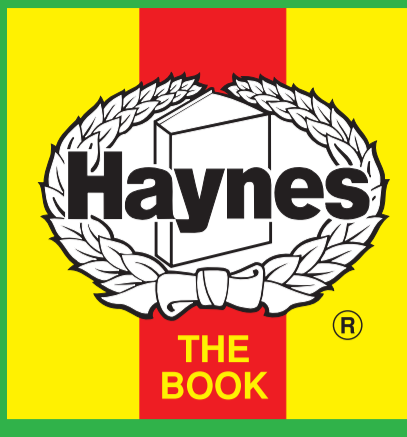


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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.

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### Engine and cooling system 944 S2 1989 to 1990

Type	M44/41 DOHC 16V	
Capacity (cm <sup>3</sup> ) / number of cylinders	2990 / 4	
Compression ratio / pressure	bar	10.9 / _
Oil pressure	bar	0.5 [4.0]
Oil temperature	°C	80 to 100
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	83
Radiator cap pressure	bar	0.90 to 1.15

### Fuel system 944 S2 1989 to 1990

Idle speed - manual [auto]	rpm	840±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
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	L-Jetronic	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	3.8
Octane rating	RON	96[E 95 RON]

### Ignition system 944 S2 1989 to 1990

Type	DME Motronic	
Ignition coil	Bosch	
Primary resistance	ohms	_
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control
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	WR5DC / RN6YC	
Electrode gap	mm	0.70

### Electrical system 944 S2 1989 to 1990

Battery	V / CC / RC	12 / 265 / 80
Alternator voltage / full load current / engine rpm	_	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

### Running gear 944 S2 1989 to 1990

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5
<b>Tyres</b>		
Saloon	Size	205/55x16: 225/50x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.5
- Estate / Van	bar	_
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[0±10°]
Camber	-20'±15'	
Castor	+2°30'-15'+30'	
King pin inclination	_	
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber	_	

### Torque wrench settings 944 S2 1989 to 1990

Cylinder head - stage 1	Nm	20 oiled
- stage 2	Nm	50
Cylinder head - stage 3	Nm	90, leave 30 minutes
- stage 4	Nm	- 90°, then 90
Big-end bearings	Nm	Smooth bearing: 57 <sup>1</sup>
Main bearings	Nm	WSM
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	90
Front hubs	Nm	WSM
Rear hubs	Nm	380±70
Wheel nuts / bolts	Nm	130
Spark plugs	Nm	30

### Capacities 944 S2 1989 to 1990

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	80

### Notes and Illustrations

<sup>1</sup>Ribbed bearing: 75