

Engine & Cooling

Fuel

Ignition

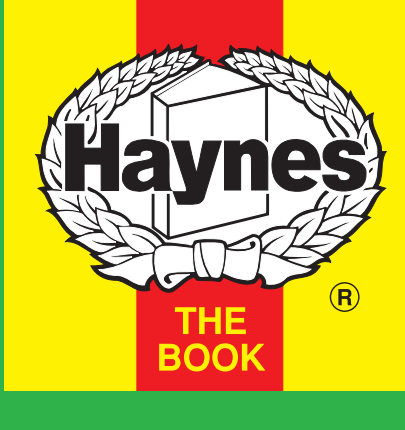
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system944 S21989 to 1990

Type		M44/41 DOHC 16V
Capacity (cm³) / 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 system944 S21989 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
CO2 @ idle speed [3000 rpm] - see page VI	%	_
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	3.8
Octane rating	RON	96[E 95 RON]

Ignition system944 S21989 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	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
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 system944 S21989 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 gear944 S21989 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 / 2.5
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±10']
Camber		-20'±15'
Castor		+2°30'-15'+30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

Torque wrench settings944 S21989 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 ¹
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

Capacities944 S21989 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

¹Ribbed bearing: 75