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 system

		944 S2 1989 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	ºC	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	ºC	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
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 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	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		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
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 [º]	[0±10']
Camber		-20'±15'
Castor		+2°30'-15'+30'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	_
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[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

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

[1]**Ribbed bearing: 75**