

Engine & Cooling

Fuel

Ignition

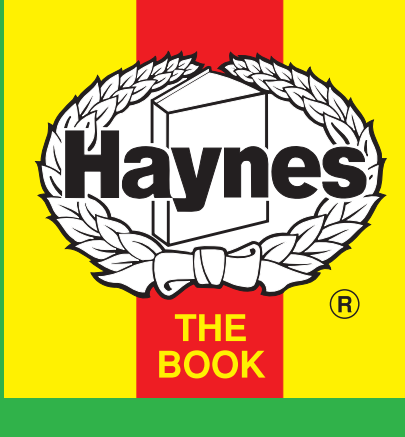
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			928 S4 & GT CAT	1990 to 1993
Type			M28/47. M28/42	
Capacity (cm³) / number of cylinders			4957 / 8	
Compression ratio / pressure	bar		10.0 / _	
Oil pressure	bar		[5.0]	
Oil temperature	°C		80 to 100	
Valve clearance - inlet	mm		0: Hyd.	
Valve clearance - exhaust	mm		0: Hyd.	
Firing order			1-3-7-2-6-5-4-8	
No 1 cylinder position			FR	
Thermostat opening temperature	°C		81 to 85	
Radiator cap pressure	bar		1.0	
Fuel system			928 S4 & GT CAT	1990 to 1993
Idle speed - manual [auto]	rpm		775 [675±25]	
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			LH-Jetronic, with DME	
Main jet / needle			_	
Injection pressure	bar		_	
Pump pressure	bar		3.8±0.2	
Octane rating	RON		95[U]	
Ignition system			928 S4 & GT CAT	1990 to 1993
Type			DME Motronic	
Ignition coil			2x 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		10±2 BTDC @ 700	
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			WR7DC / RN9YCC	
Electrode gap	mm		0.80	
Electrical system			928 S4 & GT CAT	1990 to 1993
Battery	V / CC / RC		12 / 72Ah	
Alternator voltage / full load current / engine rpm			14.0 / _ / 3000	
Starter motor current / voltage - cranking	A / V		_	
- locked	A / V		_	
Running gear			928 S4 & GT CAT	1990 to 1993
Brakes -				
Front (min. friction material thickness)	mm		2.0	
Rear (min. friction material thickness)	mm		2.0	
Tyres				
Saloon	Size		225/50x16:225/60x16: 245/45x16	
Estate / Van	Size		_	
Pressure - front / rear - Saloon	bar		2.5 / 3.0	
- Estate / Van	bar		_	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[+15'±5']	
Camber			-30'±10'	
Castor			+4°30'±30'	
King pin inclination			_	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[+10'±5'] PW	
Camber			-40'±10'	
Torque wrench settings			928 S4 & GT CAT	1990 to 1993
Cylinder head - stage 1	Nm		20¹	
- stage 2	Nm		50¹	
Cylinder head - stage 3	Nm		90¹	
- stage 4	Nm		_	
Big-end bearings	Nm		80	
Main bearings	Nm		WSM	
Clutch cover	Nm		_	
Flywheel [driveplate]	Nm		_	
Front hubs	Nm		_	
Rear hubs	Nm		_	
Wheel nuts / bolts	Nm		130	
Spark plugs	Nm		30	
Capacities			928 S4 & GT CAT	1990 to 1993
Engine oil & filter	litres		7.5	
Gearbox - 4-speed [5-speed]	litres		4.5	
Automatic transmission - refill	litres		7.3	
Final drive	litres		WT	
Cooling system	litres		16.0	
Fuel tank	litres		86	

Notes and Illustrations

¹Gold studs: 20, + 90° + 90°