

Engine & Cooling

Fuel

Ignition

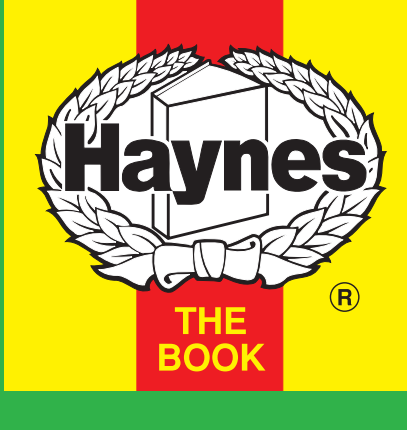
Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

750i & L & CAT (E32)

1987 to 1994

Type		M70/B50 50 12A 220kW
Capacity (cm ³) / number of cylinders		4988 / 12
Compression ratio / pressure	bar	8.8 / 10 to 12
Oil pressure	bar	0.5 [≤4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-7-5-11-3-9-6-12-2-8-4-10
No 1 cylinder position		PER
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	2.0±0.1

Fuel system

750i & L & CAT (E32)

1987 to 1994

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		M1.2 or M1.7-Motronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.0±0.06
Octane rating	RON	97[E 95 RON] ¹

Ignition system

750i & L & CAT (E32)

1987 to 1994

Type		DME Motronic
Ignition coil		Bosch 0 221 118 335
Primary resistance	ohms	a: 0.50. b: 0.37
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	[0.30 to 0.70]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		F8LCR / C9YCC
Electrode gap	mm	0.70 to 0.80

Electrical system

750i & L & CAT (E32)

1987 to 1994

Battery	V / CC / RC	12 / 84Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

750i & L & CAT (E32)

1987 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	225/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.7 / 3.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+18'±5']
Camber		-13'±30'
Castor		+7°59'±30'
King pin inclination		+12°4'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+18'±7']
Camber		-2°20'±30'

Torque wrench settings

750i & L & CAT (E32)

1987 to 1994

Cylinder head - stage 1	Nm	TORX: 30±2
- stage 2	Nm	+ 120°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	23 + 70° N
Main bearings	Nm	20 + 70°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	105±5
Front hubs	Nm	290
Rear hubs	Nm	247.6 ±5%
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	30 to 33

Capacities

750i & L & CAT (E32)

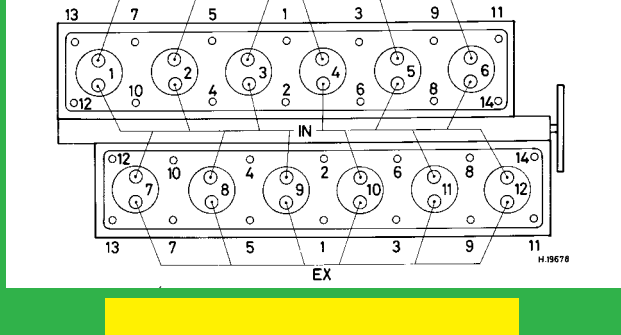
1987 to 1994

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	3.0
Final drive	litres	1.7 or 1.9
Cooling system	litres	14.0
Fuel tank	litres	102

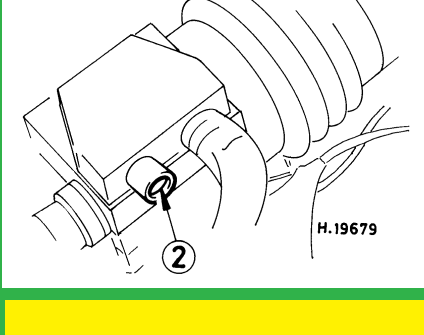
Notes and Illustrations

¹CAT: [U]

1: Idle speed 2: CO / Mixture



4988 cm³, M70



M1.2 / M1.7-Motronic