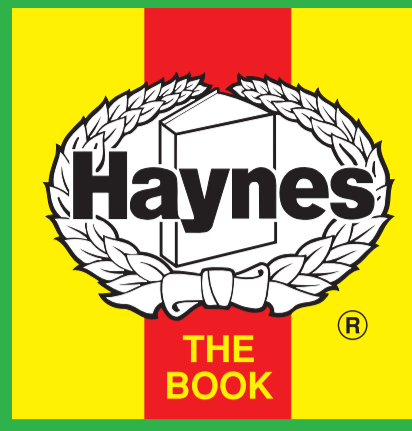


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# Automotive Technical DATA BOOK

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## Engine and cooling system 540i V8 (E34) 1993 to 1996

Type	M60 4.0 210kW DOHC 32V
Capacity (cm <sup>3</sup> ) / number of cylinders	3982 / 8
Compression ratio / pressure	bar 10.0 / ≥10.0
Oil pressure	bar ≥0.5 [4.5]
Oil temperature	°C 80
Valve clearance - inlet	mm 0: Hyd.
Valve clearance - exhaust	mm 0: Hyd.
Firing order	1-5-4-8-6-3-7-2
No 1 cylinder position	PER
Thermostat opening temperature	°C 85
Radiator cap pressure	bar 2.0±0.15

## Fuel system 540i V8 (E34) 1993 to 1996

Idle speed - manual [auto]	rpm 600±50
Fast idle speed - manual [auto]	rpm -
CO @ idle speed [3000 rpm] - see page VI	% 0.7±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm ≤200
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	M3.3-Motronic
Main jet / needle	-
Injection pressure	bar -
Pump pressure	bar 3.5±0.06
Octane rating	RON 95[U]

## Ignition system 540i V8 (E34) 1993 to 1996

Type	Direct electronic
Ignition coil	Bosch
Primary resistance	ohms 0.8±0.1
Ballast resistor	ohms -
Voltage - Tmnl 15(+) to earth	V -
Distributor	-
Points gap (air gap)	mm [0.30 to 0.70]
Dwell angle	° (%) -
Condenser capacity	µF -
Rotation	-
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm Computer control N/A
Total ignition advance	° Crankshaft @ rpm Computer control
Centrifugal check.	° Crankshaft @ rpm -
Vacuum range check	mbar Computer control
Maximum vacuum advance	° Crankshaft -
Spark plugs	NGK/Bosch
Type	BKR6EK / F7LDCR
Electrode gap	mm 0.70+0.10

## Electrical system 540i V8 (E34) 1993 to 1996

Battery	V / CC / RC	12 / 85Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / 140 / 1500
Starter motor current / voltage - cranking	A / V	160 / 9.0
- locked	A / V	-

## Running gear 540i V8 (E34) 1993 to 1996

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

<b>Tyres</b>		
Saloon	Size	225/65x15: 240/45x15
Estate / Van	Size	225/60x15: 225/55x16
Pressure - front / rear - Saloon	bar	2.0 / 2.3
- Estate / Van	bar	2.1 / 2.6. 225/55: 2.2 / 2.5

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+18'±5']
Camber		-13'±30'. Sport: -30'±30'
Castor		+8°8'±30'. Sport: +8°26'±30'
King pin inclination		+12°4'±30'. Sport: +12°38'±30'

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+25'±7']. Sport: [+28'±7']
Camber		-2°20'±30'. Sport: -2°35'

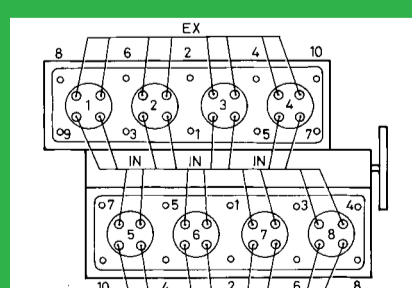
## Torque wrench settings 540i V8 (E34) 1993 to 1996

Cylinder head - stage 1	Nm	30±2 N
- stage 2	Nm	+ 80±5°
Cylinder head - stage 3	Nm	+ 80±5°
- stage 4	Nm	-
Big-end bearings	Nm	5, 20±1 + 80±5° N
Main bearings	Nm	20 + 70° N
Clutch cover	Nm	25
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 540i V8 (E34) 1993 to 1996

Engine oil & filter	litres	6.0 to 7.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	5.5
Final drive	litres	1.9
Cooling system	litres	12.7. A/C: 12.5
Fuel tank	litres	81

## Notes and Illustrations



3982 cm<sup>3</sup>, M60