

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



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 535i & CAT (E34) 1988 to 1993

Type	M30/B35M 34 6KB 162kW. CAT:155	
Capacity (cm ³) / number of cylinders	3430 / 6	
Compression ratio / pressure	bar	9.2 (CAT: 9.0) / ≥10.0
Oil pressure	bar	0.5 [4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30
Valve clearance - exhaust	mm	0.30
Firing order	1-5-3-6-2-4	
No 1 cylinder position	TCE	
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	1.4±0.2

Fuel system 535i & CAT (E34) 1988 to 1993

Idle speed - manual [auto]	rpm	800±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	≤300
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Bosch	
Type / ref	M1.1 or M1.3-Motronic	
Main jet / needle	—	
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	2.5 to 3.0
Octane rating	RON	98[E 95 RON] ¹

Ignition system 535i & CAT (E34) 1988 to 1993

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	≥10.8
Distributor	Bosch	
Points gap (air gap)	mm	[0.30 to 0.70]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
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	W8LCR / N9YCX	
Electrode gap	mm	0.70 to 0.80

Electrical system 535i & CAT (E34) 1988 to 1993

Battery	V / CC / RC	12 / 75 or 85Ah
Alternator voltage / full load current / engine rpm	13.5 to 14.2 / 90 / 1500	
Starter motor current / voltage - cranking	A / V	160 / 9.0
- locked	A / V	—

Running gear 535i & CAT (E34) 1988 to 1993

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

Tyres		
Saloon	Size	225/60x15: 240/45x415
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.3
- Estate / Van	bar	—

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 535i & CAT (E34) 1988 to 1993

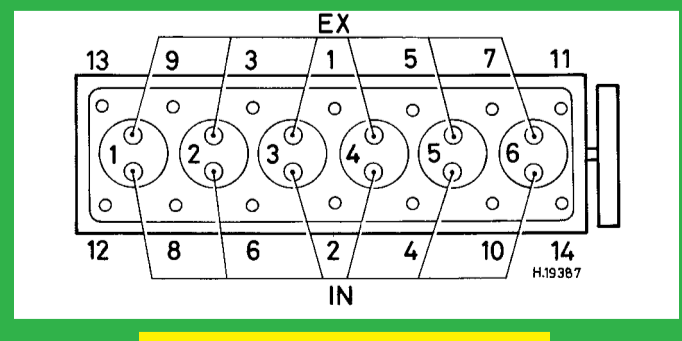
Cylinder head - stage 1	Nm	60±2, wait 20 min.
- stage 2	Nm	80±2
Cylinder head - stage 3	Nm	Warm engine for 25 min.
- stage 4	Nm	+ 35±5°
Big-end bearings	Nm	52 to 57 N
Main bearings	Nm	58 to 63
Clutch cover	Nm	24. 10.9 hex: 35
Flywheel [driveplate]	Nm	113 to 130 N
Front hubs	Nm	290
Rear hubs	Nm	247.6 ±5%
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	30 to 33

Capacities 535i & CAT (E34) 1988 to 1993

Engine oil & filter	litres	5.75
Gearbox - 4-speed [5-speed]	litres	1.25
Automatic transmission - refill	litres	3.0
Final drive	litres	1.9
Cooling system	litres	12.0
Fuel tank	litres	81

Notes and Illustrations

¹CAT: [U]



3430 cm³, M30