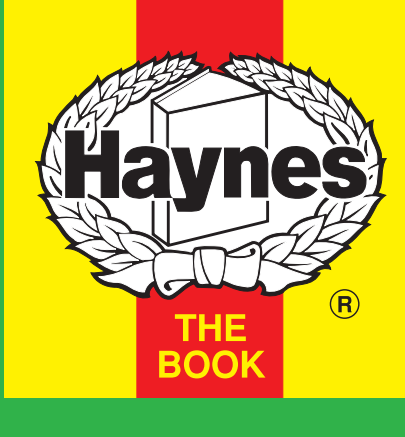




Automotive Technical

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.

MENUHELP

Engine and cooling system

535i & M535i (E28)

1985 to 1988

Type		M30 / B34
Capacity (cm³) / number of cylinders		3430 / 6
Compression ratio / pressure	bar	10.0 / 10 to 11
Oil pressure	bar	0.5 to 2.0
Oil temperature	°C	—
Valve clearance - inlet	mm	0.35 H
Valve clearance - exhaust	mm	0.35 H
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	1.0±0.1

Fuel system

535i & M535i (E28)

1985 to 1988

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.3 to 1.5
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		DME- Motronic
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	2.5 to 3.0
Octane rating	RON	98[R]

Ignition system

535i & M535i (E28)

1985 to 1988

Type		DME Motronic
Ignition coil		Bosch 0 221 118 335
Primary resistance	ohms	0.5
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	° (%)	22 to 42 @ 3000±50 rpm
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	-2 to +3 BTDC @ 850±50
V = Vacuum NV = No Vacuum		NV
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		W8DC / N9YCX
Electrode gap	mm	0.70+0.10

Electrical system

535i & M535i (E28)

1985 to 1988

Battery	V / CC / RC	12 / 66Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / _ / 1500
Starter motor current / voltage - cranking	A / V	200 / 9.0
- locked	A / V	—

Running gear

535i & M535i (E28)

1985 to 1988

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

Tyres		
Saloon	Size	220/55x390
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.5
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±0.6
Camber		-20'±30'. M535i: -37'±30'
Castor		+8°±30' (10° lock) ¹
King pin inclination		+11°57'±30' (10° lock) ²

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±0.8 ³
Camber		-2°20'±30'. M535i: -2°35'±30'

Torque wrench settings

535i & M535i (E28)

1985 to 1988

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
Main bearings	Nm	58 to 63
Clutch cover	Nm	24
Flywheel [driveplate]	Nm	105±7 locked threads
Front hubs	Nm	WSM
Rear hubs	Nm	234 to 260
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	26±2

Capacities

535i & M535i (E28)

1985 to 1988

Engine oil & filter	litres	5.8
Gearbox - 4-speed [5-speed]	litres	265: 1.6. 260: 1.3
Automatic transmission - refill	litres	3.0
Final drive	litres	1.9
Cooling system	litres	12.0
Fuel tank	litres	70

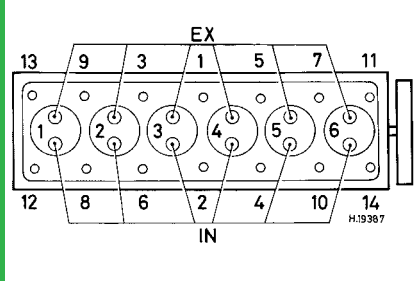
Notes and Illustrations

¹M535i: +8°20'±30'

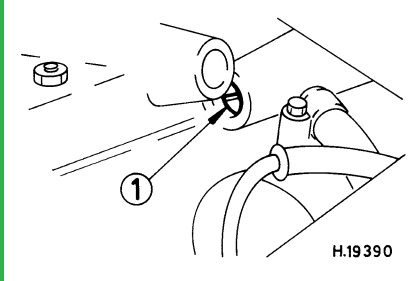
²M535i: +12°38'±30'

³M535i: +3.2±0.8

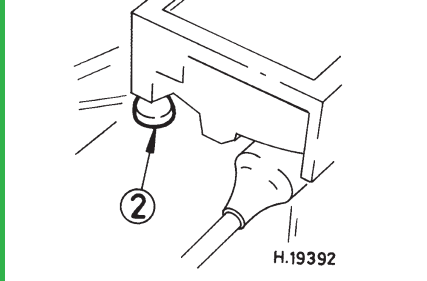
1: Idle speed 2: CO / Mixture



3430 cm³, M30



Motronic, 3430 cm³, E28



Motronic, 3430 cm³, E28