

**Haynes**
shows you how**BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual**

Specifications

General

2.0L (N20/N26) engine

Displacement	122 cubic inches (1986cc)
Bore	3.307 inches (84 mm)
Stroke	3.527 inches (89.6 mm)
Direction of engine rotation	Clockwise (viewed from the front of the vehicle)
No 1 cylinder location	Timing chain end
Firing order	1-3-4-2
Minimum compression pressure	130 psi (9.0 bar)
Maximum deviation between cylinders	29 psi (2.0 bar)

3.0L (N52/N52K) engine

Displacement	182 cubic inches (2996cc)
Bore	3.359 inches (85mm)
Stroke	3.467 inches (88mm)
Direction of engine rotation	Clockwise (viewed from the front of the vehicle)
No 1 cylinder location	Timing chain end
Firing order	1-5-3-6-2-4
Minimum compression pressure	130 psi (9.0 bar)
Maximum deviation between cylinders	29 psi (2.0 bar)
Camshaft endplay	0.0008 to 0.0060 inch (0.020 to 0.162 mm)

Lubrication system

Minimum oil pressure at idle speed

2.0L four-cylinder engine	14.5 psi (1.0 bar)
3.0L six-cylinder engine	21.7 psi (1.5 bar)
Regulated oil pressure	58.0 psi (4.0 bar)

Ft-lbs (unless otherwise indicated) Nm

Torque specifications

Note:

One foot-pound (ft-lb) of torque is equivalent to 12 inch-pounds (in-lbs) of torque. Torque values below approximately 15 foot-pounds are expressed in inch-pounds, because most foot-pound torque wrenches are not accurate at these smaller values.

Connecting rod cap bearing bolts

2.0L engine

Step 1	15	20
Step 2	Rotate an additional 70-degrees	
Step 3	Rotate an additional 70-degrees	

3.0L

Step 1	15	20
Step 2	Tighten an additional 120 degrees	

Main bearing bedplate bolts

2.0L engine	16.5	22
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3.0L engine

N52

M8

Step 1	84 in-lbs	10
Step 2	Tighten an additional 90 degrees	

M10

Step 1	132 in-lbs	15
Step 2	Tighten an additional 90 degrees	

N52K

M8 x 37 mm

Step 1	72 in-lbs	8
Step 2	Tighten an additional 90 degrees	

M10 x 100 mm

Step 1	15	20
Step 2	Tighten an additional 70 degrees	

M10 x 27 and 41 mm

Step 1	132 in-lbs	15
Step 2	Tighten an additional 90 degrees	

Main bearing cap bolts*

2.0L engine

Step 1	15	20
Step 2	Rotate an additional 90-degrees	
3.0L engine		
Step 1	15	20
Step 2	Tighten an additional 70 degrees	

* Do not re-use.

Caution:

All aluminum fasteners must be replaced with new ones whenever they are removed. If in doubt, try to attract it with a magnet (aluminum is not magnetic). Additionally, most aluminum fasteners are identified with a blue paint marking.

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