

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

Specifications

Front suspension

Type	Independent, with MacPherson struts incorporating coil springs and telescopic shock absorbers. Stabilizer bar installed on all models
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Rear suspension

Type	Independent, trailing arms located by upper and lower control arms with coil springs and shock absorbers. Stabilizer bar installed on all models
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Steering

Type	Rack and pinion. Power assistance standard on all models
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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 ft-lbs are expressed in inch-pounds, since most foot-pound torque wrenches are not accurate at these smaller values.

Note:

On some fasteners, different grades of bolt are used; the grade of each bolt is stamped on the bolt head. Ensure that each bolt is tightened to the correct torque for its grade.

Front suspension

Stabilizer bar connecting link nuts*	43	58
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Stabilizer bar mounting clamp nuts*	20.5	28
Control arm balljoint nut*	122	165
Control arm-to-subframe nut*		
M12		
8.8		
Step 1	50	68
Step 2	Tighten an additional 90-degrees	
12.9		
Step 1	74	100
Step 2	Tighten an additional 90-degrees	
DSC sensor bolts	72 in-lbs	8
Hub/bearing assembly bolts*		
E90, E91, E92 and E93 chassis	81	110
F30, F31 and F34 chassis		
Step 1	59	80
Step 2	Tighten an additional 90-degrees	
Strut piston rod nut*	47	64
Strut-to-hub carrier nut*		
E90, E91, E92 and E93 chassis		
M8	33	45
M10	60	81
F30, F31 and F34 chassis		
Step 1	32	44
Step 2	Tighten an additional 90-degrees	
Strut-to-body nuts*		
E90, E91, E92 and E93 chassis	25	34
F30, F31 and F34 chassis		
M8		
Step 1	20.5	28
Step 2	Tighten an additional 90-degrees	
M10		
Step 1	41	56
Step 2	Tighten an additional 90-degrees	
Tension strut balljoint nut*		
E90, E91, E92 and E93 chassis	122	165
F30, F31 and F34 chassis	129	175
Tension strut balljoint nut*	122	165
Tension strut-to-subframe nut*		
M12		

8.8

Step 1	50	68
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Step 2	Tighten an additional 90-degrees	
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10.9

Step 1	74	100
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Step 2	Tighten an additional 90-degrees	
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Rear suspension**Stabilizer bar link nuts***

E90, E91, E92 and E93 chassis	15	21
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F30, F31 and F34 chassis	20.5	28
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Stabilizer bar link

E90, E91, E92 and E93 chassis		
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Bolt	15	21
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Nut*	43	58
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F30, F31 and F34 chassis		
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Bolt	20.5	28
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Nut*	41	56
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Camber arm-to-hub carrier nut*	122	165
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Camber arm-to subframe nut*	122	165
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Control arm-to-hub carrier bolt*

Step 1	74	100
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Step 2	Tighten an additional 90-degrees	
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Control arm-to-subframe nut*	74	100
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Shock absorber

E90, E91, E92 and E93 chassis		
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Upper mounting nut*

M10	20	27
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M14	27	37
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Lower mounting bolt*

M10	44	60
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M12	74	100
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Lower mounting nut*	27	37
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F30, F31 and F34 chassis		
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Upper mounting bolts	20.5	28
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Lower mounting bolt/nut*

Step 1	74	100
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M12	Tighten an additional 90-degrees	
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Subframe	80	108
Toe arm-to-hub carrier	74	100
Toe arm-to-subframe nut*	74	100
Traction strut-to-hub carrier bolt:*		
Step 1	74	100
Step 2	Tighten an additional 90-degrees	
Traction strut-to-subframe nut*	74	100
Trailing arm-to-hub carrier nut*	74	100
Trailing arm-to-subframe nut*	74	100

Steering

Lateral acceleration sensor	72 in-lbs	8
Power steering pipe union bolts		
M10 union bolt	108 in-lbs	12
M14 union bolt	26	35
M16 union bolt	30	40
M18 union bolt	33	45
Power steering pump bolts		
Step 1	15	20
Step 2	Tighten an additional 90-degrees	
Steering column bolts/nuts	16	22
Steering column universal joint clamp/pinch-bolt*	16	22
Steering gear mounting bolts/nuts*		
E90, E91, E92 and E93 chassis		
Step 1	41	56
Step 2	Tighten an additional 90-degrees	
F30, F31 and F34 chassis	41	56
Steering wheel	46	63
Track rod end balljoint retaining nut*		
E90, E91, E92 and E93 chassis	122	165
F30, F31 and F34 chassis	129	175
Track rod end clamp bolt*		
E90, E91, E92 and E93 chassis	30	40
F30, F31 and F34 chassis	23.5	32
Track rod to steering gear		
E90, E91, E92 and E93 chassis	81	110
F30, F31 and F34 chassis	77	105

* Do not re-use

Wheels

Wheel bolts

See [Chapter 1](#)

* *Do not re-use*

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