

**Haynes**  
shows you how**BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.**

## Specifications

### Front suspension

Type	Independent, with MacPherson struts incorporating coil springs, telescopic shock absorbers and a stabilizer bar
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### Rear suspension

Type	Independent, trailing arms located by upper and lower control arms with coil springs, shock absorbers and a stabilizer bar
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### Steering

Type	Power-assisted rack-and-pinion
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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 foot-pounds are expressed in inch-pounds, because most foot-pound torque wrenches are not accurate at these smaller values.

### Front suspension

Stabilizer bar connecting link nuts*	48	65
Stabilizer bar mounting clamp nuts*	16	22
Stabilizer bar link-to-strut nuts	48	65
Hub nut*	214	290
Lower arm balljoint nut*	65	48

Lower arm rear mounting bracket bolts	44	59
Lower arm-to-subframe	66	90
Reinforcement frame/plate under front subframe*	See <a href="#">Chapter 2A</a>	
Strut mounting-to-body nuts*		
Nuts with 18 mm diameter flange	18	24
Nuts with 21 mm diameter flange	25	34
Strut upper mounting plate/piston rod nut		
M12 thread		
Piston with an external hexagon end (retain with socket)	47	64
Piston with an internal hexagon end (retain with Allen key)	32	44
M14 thread	47	64
Strut-to-steering knuckle bolt*	60	81
Subframe-to-engine crossmember*		
M10		
8.8 strength grade (see head of bolt)	31	42
9.8 strength grade (see head of bolt)	35	47
M12		
8.8 strength grade (see head of bolt)	57	77
10.9 strength grade (see head of bolt)	81	110
12.9 strength grade (see head of bolt)	77	105

## Rear suspension

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Control arm-to-subframe pivot bolts*	57	77
Shock absorber lower mounting bolt	74	100
Shock absorber piston rod nut*	120 in-lbs	14
Shock absorber upper mounting nuts		
M8		
8.8 strength grade (see head of bolt)	18	24
10.9 strength grade (see head of bolt)	22	30

of bolt)

Trailing arm-to-control arm pivot bolts*	81	110
Trailing arm-to-mounting bracket pivot bolt	81	110
Trailing arm bracket-to-subframe	57	77

Steering

Power steering pump mounting bolts	16	22
Power steering line fitting bolts		
M10 union bolt	108 in-lbs	12
M14 union bolt	26	35
M16 union bolt	30	40
M18 union bolt	33	45
Steering column universal joint clamp bolt*	16	22
Steering gear mounting nuts*	31	42
Steering wheel bolt	46	63
Tie-rod	74	100
Tie-rod balljoint		
Retaining nut*	48	65
Locknut	33	45

Wheel bolts

See [Chapter 1](#)

\*Do not re-use