



Haynes
shows you how

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

Specifications

Type	Single clutch disc with diaphragm spring, hydraulically-operated
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Clutch disc

Minimum lining thickness above rivet head	3/64-inch (1.0 mm)
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Differential

Type	Unsprung, attached to rear suspension crossmember
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Driveaxles

Type	Steel shafts with ball-and-cage type constant velocity joints at each end
Constant velocity joint grease capacity	80g in each joint

Driveshaft

Type	Two-piece tubular shaft with center bearing, center and rear universal joint. Front joint is either rubber coupling or universal joint (depending on model)
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	Ft-lbs	Nm
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Torque specifications

Clutch cover-to-flywheel bolts	18	24
Clutch master cylinder bolts	16	22
Clutch release cylinder nuts	16	22
Hydraulic line fitting bolts	15	20
Differential mounting bolts		
Front bolt	70	95

Rear bolts	128	174
Oil filler and drain plug	52	70
Driveshaft flange retaining nut (approximate - see text)		
M20 nut	129	175
M22 nut	137	185
Vibration damper on bracket (if equipped)	57	77
Driveaxle		
Driveaxle retaining nut*		
M22 nut	148	200
M24 nut	185	250
M27 nut	221	300
Driveaxle-to-differential flange bolts		
Allen bolts		
M10 bolts		
Bolts with serrations under bolt head	71	96
Bolts without serrations	61	83
M12 bolts	81	110
Torx bolts		
M10 bolts		
Plain bolts	61	83
Black bolts with serrations under bolt head	74	100
Silver bolts with serrations under bolt head	59	80
M8 bolts	47	64
M12 bolts	100	135
Driveshaft		
M10 bolts		
Strength grade 8.8 (see head of bolt)	35	48
Strength grade 10.9 (see head of bolt)	47	64
M12 bolts		
Strength grade 8.8 (see head of bolt)	60	81
Strength grade 10.9 (see head of bolt)	74	100
M14 bolts	103	140
Support bearing bracket nuts	15	21
Wheel bolts	See Chapter 1	

***Do not re-use**

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