



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

# Specifications

## General

Firing order	1-5-3-6-2-4
Battery voltage	
Engine off	12.0 to 12.6 volts
Engine running	Approximately 13.5

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.

Knock sensor retaining bolt	15	20
Starter motor support bracket-to-engine bolts	35	47
Starter motor support bracket-to-starter motor nuts	44 in-lbs	5
Starter motor-to-transmission bolts	35	47