

# BMW 3 Series

## 2006 ▶ 2011 (E90, E91, E92, E93)

### Service Manual



This Bentley Manual contains in-depth maintenance, service and repair information for the BMW 3 Series from 2006 to 2011\*. The aim throughout has been simplicity and clarity, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual helps you understand, care for and repair your BMW.

The do-it-yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information. Even if you have no intention of working on your vehicle, you will find that reading and owning this manual makes it possible to discuss repairs more intelligently with a professional technician.



*Bentley technical editors removing Valvetronic motor on N51 engine.*



*Learn how to reset condition-based service (CBS) intervals using iDrive or stalk switch (cars without iDrive).*  
**020 Maintenance**



*Servicing the direct injection system on turbo models, including replacing fuel pump.*  
**140 Fuel Tank and Fuel Pump**



*Detailed brake pad and rotor service.*  
**340 Brakes**



*Extensive electrical component location information.*  
**E01 Electrical Component Locations**

#### Features

- Maintenance procedures from changing the ATF to replacing the cabin microfilter. This manual tells you what to do and how and when to do it.
- Step-by-step variable camshaft timing (VANOS) service.
- Cylinder head cover gasket and crankshaft seal replacement.
- Cooling system and radiator service.
- Fuel injection and ignition system diagrams and explanations.
- Information on advanced technical features such as Valvetronic, iDrive, turbo boost and DSC (dynamic stability control).
- Suspension repair procedures.
- Brakes, steering and ABS troubleshooting and repair.
- Heating and air-conditioning repair, including A/C component replacement.
- Body and hood repairs and adjustments.
- Electrical system service, with an easy-to-use illustrated component locator section.
- Comprehensive wiring schematics, including fuses and grounds.
- BMW OBD II diagnostic trouble codes, SAE-defined OBD II P-codes, as well as basic scan tool operation.
- BMW factory tolerances, wear limits, adjustments and tightening torques.

#### Normally aspirated models (6-cylinder 3.0 engines)

- N52 engine: 325i, 325xi, 330i, 330xi (2006)
- N52KP engine: 328i, 328xi (2007–2011)
- N51 (SULEV) engine: 328i, 328xi (2007–2011)

#### Turbo-charged models (6-cylinder 3.0 engines)

- N54 engine: 335i, 335xi (2009–2010), 335xi (2011)
- N55 engine: 335i, 335xi (2011)

#### Manual transmissions (remove, install, external service)

- Getrag GS6-17BG
- ZF GS6-37BZ
- ZF GS6-53DZ

#### Double clutch transmission (fluid service)

- Getrag GS7D36SG

#### Automatic transmissions (remove, install, external service)

- GM GA6L45R
- ZF GA6HP10Z

\* This manual covers the 2012 BMW 3 Series Coupe (E90) and the 2012 BMW 3 Series Convertible (E93). The E92 and E93 models were extended through the 2012 model year.

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# 11 Bmw 335i Repair And Service Manual

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## 11 Bmw 335i Repair And Service Manual:

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