



# BMW 5 Series (E60, E61) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010

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The **BMW 5 Series (E60, E61) Service Manual: 2004-2010** contains in-depth maintenance, service and repair information for the E60 and E61 platform BMW 5 Series models from 2004 to 2010. 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.

## Models covered

- M54 engine (2004-2005)
- N52 engine (2006-2007)
- N52K engine (2008-2010)
- N54 twin turbo engine (2008-2010)
- N62 V8 engine (2004-2005)
- N62 TU V8 engine (2006-2010)

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

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

## Sequential Manual Gearbox (SMG) (remove, install)

- ZF GS6S37BZ, ZF GS6S53BZ

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

- ZF GA6HP19Z, GA6HP19Z TU
- ZF GA6HP26Z, GA6HP26Z TU

**New two-volume set:** This repair manual has been reconfigured into a two-volume set to allow for ease of use and contains all of the content from the previous single-volume edition.

### **Technical features:**

- Condition based service (CBS) maintenance procedures from replacing the cabin microfilter to checking and resetting service intervals. This manual tells you what to do and how and when to do it.
- Cylinder head cover gasket and crankshaft seal service (includes removal and installation of Valvetronic motor).
- Cooling system and radiator service.
- Fuel injection and ignition system diagrams and explanations.
- Information about advanced technical features such as Valvetronic, VANOS, twin turbochargers, DSC (dynamic stability control), dynamic drive (active stabilizer bars), active steering, and xDrive.
- 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.

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