

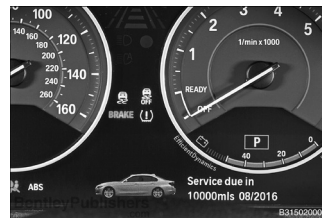
BMW 3 Series (F30, F31, F34) Service Manual: 2012-2015 320i, 328i, 328d, 335i, including xDrive

Price: \$129.95
Bentley Stock Number: B315
Publication Date: 2016-02-16
ISBN: 978-0-8376-1752-7
Hardcover, 8 3/8 in. x 11 in.
Case quantity: 5
1,078 pages, 1,546 photos, illustrations and diagrams

The **BMW 3 Series (F30, F31, F34) Service Manual: 2012-2015** is a comprehensive source of service information and specifications for the BMW 3 Series from 2012 to 2015. The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your car.

Features:

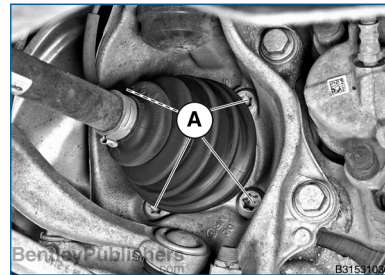
- Maintenance procedures from changing the cabin microfilter to replacing and registering a new battery. This manual tells you what to do and how and when to do it.
- Front-to-rear fluid and lubricant service, including xDrive transfer case fluid and ATF.
- Cylinder head cover gasket and crankshaft seal replacement.
- Cooling system, thermostat and radiator service.
- Gasoline fuel and ignition system diagrams and explanations for turbo-valvetronic-direct injection (TVDI) engines.
- Diesel fuel injection system diagrams and explanations for turbo-direct injection (TDI) engine management systems.
- Service and repair information on BMW EfficientDynamics technology, such as Valvetronic, xDrive, TwinPower turbo, and DSC (dynamic stability control).
- Twin scroll (gasoline) and variable vane (diesel) turbocharger removal and installation.
- Step-by-step variable camshaft timing (VANOS) service.
- Suspension repairs, including wheel bearing replacement.
- 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.



Learn how to reset condition-based service (CBS) intervals using iDrive.
020 Maintenance



Direct fuel injection service, including replacing and resetting injector quantity compensation.
130 Fuel Injection (N20, N26, N55 engine)



Drive axle, driveshaft and wheel bearing service.
260 Driveshafts, 310 Front Suspension, 330 Rear Suspensions

Engines covered:

Gasoline: N20 engine: 320i, 328i, including xDrive
N26 (SULEV) engine: 328i including xDrive
N55 engine: 335i including xDrive
Diesel: N47 engine: 328d, including xDrive

Transmissions covered (remove, install, external service):

Manual: GS6-17BG (4-cylinder models)
GS6-45BZ (6-cylinder models, RWD)
GS6X-45BZ (6-cylinder models, with xDrive)

Automatic: ZF GA8HP45Z