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Technical training. Product information.

101 Product Presentation



BMW Service

Electric drive & charging
BMW Group University
Technical Training
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General information

System used

The following symbols appear in this document to facilitate better comprehension or to draw attention to any important information.



Contains important safety information and information that needs to be observed carefully in order to guarantee the correct operation of the system.

Information status and technical market version

BMW Group vehicles meet the requirements of the highest safety and quality standards. Changes to requirements for environmental protection, customer benefits and design trends determine technical developments of systems and components. Consequently, there may be discrepancies between the contents of this document and the vehicle available in the market.

This document technically refers to the European version of all mentioned vehicles. Some operating elements or components are arranged differently in regional other vehicles than shown in the graphics in this document. Further differences may arise as the result of the equipment specification in specific markets or countries.

Additional sources of information

Further information on the individual topics can be found in the following:

- Owner's handbook
- Integrated Service Technical Information

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Information status: August 2019

01-101 Technical Training

Bmw I3 2014 2015 Service And Training Manual

Omar Faruk,Jimi Tjong,Mohini Sain



Bmw I3 2014 2015 Service And Training Manual:

Lightweight and Sustainable Materials for Automotive Applications Omar Faruk, Jimi Tjong, Mohini

Sain, 2017-06-01 Automotive manufacturers are required to decrease CO₂ emissions and increase fuel economy while assuring driver comfort and safety. In recent years there has been rapid development in the application of lightweight and sustainable materials in the automotive industry to help meet these criteria. This book provides critical reviews and the latest research results of various lightweight and sustainable materials in automotive applications. It discusses current applications and future trends of lightweight materials in the automotive area. While there are a few books published mainly focusing on automotive applications of metallic lightweight materials to date, there is no available book focusing on a broad spectrum of lightweight materials including metal plastic composites, bio fiber, bio polymer, carbon fiber, glass fiber, nanomaterials, rubber materials and foaming materials as this work does. The book also includes case studies of commercial lightweight automotive parts from sustainable lightweight materials, providing an invaluable resource to those involved in this in demand research and commercialization area.

BMW 4 Series (F32, F33, F36) Service Manual Robert Bentley, 2017-01-11 The BMW 4 Series Service Manual 2014 2016 contains in depth maintenance service and repair information for the BMW 4 Series from 2014 to 2016. 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 4 Series. 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.

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. Service and repair information on BMW EfficientDynamics technology such as Valvetronic, xDrive, TwinPower turbo and DSC dynamic stability control. Twin scroll gasoline turbocharger replacement for 4 and 6 cylinder engines. 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 lid repairs and adjustments including Gran Coupe tailgate and rear doors. Retractable hardtop service including electrical, mechanical and hydraulic component operation locations and replacement. 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. Engines: N20 engine, 428i

including xDrive N26 SULEV engine 428i including xDrive N55 engine 435i including xDrive Manual transmissions GS6 17BG 4 cylinder models GS6 45BZ 6 cylinder models RWD GS6X 45BZ 6 cylinder models with xDrive Automatic transmissions ZF GA8HP45Z **BMW 3- & 5-Series Service and Repair Manual** ,2013 **BMW 3 Series (F30, F31, F34) Service Manual: 2012, 2013, 2014, 2015: 320i, 328i, 328d, 335i, Including Xdrive** Bentley Publishers,2016-02-16 The BMW 3 Series F30 F31 F34 Service Manual 2012 2015 contains in depth maintenance service and repair information for the BMW 3 Series from 2012 to 2015 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 3 Series Engines Gasoline N20 engine 320i 328i including xDrive N26 SULEV engine 328i including xDrive N55 engine 335i including xDrive **BMW 3- & 5-series Service and Repair Manual** Andrew K. Legg,Larry Warren,1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC **BMW 3-series Service and Repair Manual** Mark Coombs,Steve Rendle,1996 **Diesel Service Pre-Tech Training Manual** Bosch Staff,1992-01-01

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