

Bmw E46 Manual Transmission

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[New Cars Prices and Reviews, 2001](#) - Edmund's Staff 2000-12

Lists manufacturers' suggested retail and dealer invoice prices for all models, foreign and domestic, along with information on standard and optional equipment, specifications and reviews, and buying and leasing advice. Original.

BMW 3 Series Enthusiast's Companion - Jeremy Walton 2001

Walton chronologically explores the series, with details on every 3 Series platform, including the E21, E30, E36, and E46. The engineering of each platform is described and evaluated. The book also features coverage of the M3, both as it performs on the street and on the race track. Guidance on iden *Today's Technician: Manual Transmissions and Transaxles Classroom Manual and Shop Manual, Spiral bound Version* - Jack Erjavec 2015-01-02

Succeed in the course, your future career, and the ASE A3 Manual Drive Train and Axles certification test with TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES, 6e. You'll find practical, easy-to-understand coverage of a wide range of must-know topics that adhere the 2013 ASE Education Foundation AST/MAST program standards, including dual clutch systems, various limited-slip differential designs, six-speed transmissions, safe work practices, and more. Volume I, the Classroom Manual, covers every topic on the ASE A3 Manual Drive Train and Axles certification test, while Volume II, the Shop Manual, includes job sheets that get you involved in performing hands-on service and repair tasks. In addition, detailed full-color photos show you what to expect when performing a procedure on the job. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Sports Cars Illustrated - 2006

Driven - David Kiley 2004-04-02

An exclusive look at one of the world's most successful and controversial companies, and the mysterious family behind it. BMW is arguably the most admired carmaker in the world. It's financial performance is the envy of its competitors, and BMW products inspire near-fanatical loyalty. While many carmakers struggle with falling sales, profits and market share, demand for BMWs continues to grow, frequently outpacing production. Now, David Kiley-Detroit Bureau Chief at USA Today and author of Getting the Bugs Out, which covered Volkswagen's demise and rebirth, goes inside the fabled German automaker to see how it does what it does so well. With unprecedented access to BMW executives, Kiley goes behind the walls of BMW's famed "Four Cylinders" headquarters in Munich at a time when the company is in its most aggressive, and some say riskiest, expansion in its history and when some of the company's new products, like the 7 Series sedan and Z4 roadster, are for the first time drawing as many barbs from critics as bouquets. Kiley covers intimate details of the boardroom drama surrounding the company's nearly disastrous acquisition and subsequent sale of the British Rover Group and its expansion into selling MINI and Rolls Royce cars. Besides being a world-class carmaker, BMW is also considered one of the smartest consumer marketing companies and Kiley explores the extraordinary value and management of the BMW brand mystique. He also takes a revealing look at the mysterious and ultra-private Quandt family of Bad Homburg Germany, which owns a controlling stake in BMW: Johanna and Susanne Quandt, two of the wealthiest women in Europe and Stefan Quandt, one of the wealthiest bachelors on the continent. David Kiley (Ann Arbor, MI) is

the Detroit Bureau Chief at USA Today who has covered the auto industry for 17 years. He has been featured on Nightline, CNBC, CNN, MSNBC, NPR and the Today show. He is also the author of Getting the Bugs Out: The Rise, Fall, and Comeback of Volkswagen in America (0-471-26304-4), also available from Wiley.

101 Performance Projects for Your BMW 3 Series 1982-2000 - Wayne R. Dempsey 2006-09-15

Since its introduction in 1975, the BMW 3-series has earned a reputation as one of the world's greatest sports sedans. Unfortunately, it has also proven one of the more expensive to service and maintain. This book is dedicated to the legion of BMW 3-series owners who adore their cars and enjoy restoring, modifying, and maintaining them to perfection; its format allows more of these enthusiasts to get out into the garage and work on their BMWs-and in the process, to save a fortune. Created with the weekend mechanic in mind, this extensively illustrated manual offers 101 projects that will help you modify, maintain, and enhance your BMW 3-series sports sedan. Focusing on the 1984-1999 E30 and E36 models, 101 Performance Projects for Your BMW 3-Series presents all the necessary information, covers all the pitfalls, and assesses all the costs associated with performing an expansive array of weekend projects.

Automotive Engineering e-Mega Reference - David Crolla 2009-06-16

This one-stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field. An expansion the Automotive Engineering print edition, this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development. Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling. * A fully searchable Mega Reference Ebook, providing all the essential material needed by Automotive Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

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

Universal Joints and Driveshafts - Hans-Christoph Seherr-Thoss 2006-03-28

Major progress has been made in the field of driveshafts since the authors presented their first edition of this unique reference work. Correspondingly, major revisions have been done for second edition of the German Textbook (Springer 2003), which is present here in the English translation. The presentation was adjusted, novel improvements of manufacturing and design are described, and modern aspects of production are incorporated. The design and application of Hooke's joint driveshafts is discussed as well as constant velocity joints for the construction of agricultural engines, road and rail vehicles. This work can be used as a textbook as well as a reference for practitioners, scientists, and students dealing with drive

technology.

[BMW 3 Series - E36 Restoration Tips & Techniques](#) - Greg Hudock 2012-10-14

A practical restoration manual on the E36, the 3 Series BMWs built between 1990 & 1999. Covers all models from the 316 compact to the M3. Advice is given on acquiring a good pre-owned example plus restoring & modifying engines, bodywork, trim, electrics, suspension & mechanical parts. Detailed information on Alpina & M3 cars. A total of 148 fully illustrated colour and black & white

[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

Focus On: 100 Most Popular Station Wagons - Wikipedia contributors

[BMW X3 \(E83\) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010: 2.5i, 3.0i, 3.0si, Xdrive 30i](#) - Bentley Publishers 2015-01-26

The BMW X3 (E83) Service Manual: 2004-2010 contains in-depth maintenance, service and repair information for the BMW X3 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. Engines covered: M54 engine: 2.5i, 3.0i (2004-2006) N52 engine: 3.0si, xDrive 30i (2007-2010) Transmissions covered: Manual: ZF GS6-37BZ (6-speed) Automatic: GM A5S390R (5-speed) Automatic: GM GA6L45R (6-speed)

Focus On: 100 Most Popular Compact Cars - Wikipedia contributors

[The Automotive Chassis: Engineering Principles](#) - Jornsens Reimpell 2001-05-23

This comprehensive overview of chassis technology presents an up-to-date picture for vehicle construction and design engineers in education and industry. The book acts as an introduction to the engineering design of the automobile's fundamental mechanical systems. Clear text and first class diagrams are used to relate basic engineering principles to the particular requirements of the chassis. In addition, the 2nd edition of 'The Automotive Chassis' has a new author team and has been completely updated to include new

technology in total vehicle and suspension design, including platform concept and four-wheel drive technology.

European Car - 2007

[How to Rebuild & Modify GM Turbo 400 Transmissions](#) - Cliff Ruggles 2011

Enthusiasts have embraced the GM Turbo 400 automatics for years, and the popularity of these transmissions is not slowing down. Ruggles walks through the step-by-step rebuild and performance upgrade procedures in a series of full-color photos.

Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance - Richard Folkson 2022-07-29

Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance: Towards Zero Carbon Transportation, Second Edition provides a comprehensive view of key developments in advanced fuels and vehicle technologies to improve the energy efficiency and environmental impact of the automotive sector. Sections consider the role of alternative fuels such as electricity, alcohol and hydrogen fuel cells, as well as advanced additives and oils in environmentally sustainable transport. Other topics explored include methods of revising engine and vehicle design to improve environmental performance and fuel economy and developments in electric and hybrid vehicle technologies. This reference will provide professionals, engineers and researchers of alternative fuels with an understanding of the latest clean technologies which will help them to advance the field. Those working in environmental and mechanical engineering will benefit from the detailed analysis of the technologies covered, as will fuel suppliers and energy producers seeking to improve the efficiency, sustainability and accessibility of their work. Provides a fully updated reference with significant technological advances and developments in the sector Presents analyses on the latest advances in electronic systems for emissions control, autonomous systems, artificial intelligence and legislative requirements Includes a strong focus on updated climate change predictions and consequences, helping the reader work towards ambitious 2050 climate change goals for the automotive industry

Road & Track Iconic Cars: BMW M Series - Larry Webster 2015-10-26

Fully illustrated with color photography, this eBook collects Road & Track's coverage of the acclaimed BMW M Series from 1985 to 2014. Since it debuted the BMW E2 in 1972, the legendary German car brand has taken a balanced approach to its M series cars, turning already competitive models into well-rounded, capable performance machines. Year after year, BMW's Motorsport division has set the standard for power, style, and overall excellence. This eBook collects Road & Track's BMW M car coverage, including features, reviews, comparison tests, and interviews on everything from the M3 and M5 to the short-lived M1 supercar, and even the recent M-badged SUVs. Taken together, the nearly thirty years of expert automotive writing presents a critical history of BMW's design and engineering achievements.

B. M. W.3 Series Service and Repair Manual - Peter G. Strasman 1995

BMW 3-Series, 1991-1999 - Graham Robson 2000-07-30

BMW's 3-Series models came of age during the Nineties, setting new standards of luxury, performance and desirability. This volume tells their story, offering a concise yet comprehensive reference to their design and development and to the many specification changes which have been applied to their engines, transmission and other mechanical units as well as to the cars' bodywork and interior equipment. Includes production performance figures.

[BMW 3-Series \(E30\) Performance Guide](#) - Robert Bowen 2013-02-15

The model that truly launched BMW into the performance arena in the United States were the second generation of 3-series cars. Today, the E30 family of BMWs are both readily affordable, and are popular with enthusiasts wanting to personalize them.

BMW 3-Series (E30) Performance Guide 1982-1994 - Robert Bowen 2013-02-15

The model that truly launched BMW into the performance arena in the United States were the second generation of 3-series cars. Today, the E30 family of BMWs are both readily affordable, and are popular with enthusiasts wanting to personalize them.

The BMW Century - Tony Lewin 2016-11

The BMW Century profiles one hundred years of BMW car and motorcycle manufacturing a decade at a time with gorgeous photos and detailed text.

Audi A4 (B5) Service Manual - Bentley Publishers 2011-04

The Audi A4 (B5): 1996-2001 Service Manual contains in-depth maintenance, service and repair information for Audi A4 models built on the B5 platform from 1996 to 2001. Service to Audi owners is of top priority to Audi and has always included the continuing development and introduction of new and expanded services. The aim throughout this manual has been simplicity and clarity, with practical explanations, step-by-step procedures, and factory specifications. Whether you're a professional or a do-it-yourself Audi owner, this manual will help you understand, care for, and repair your Audi. Engines covered: * 1.8L turbo gasoline (engine codes: AEB, ATW, AWM) * 2.8L gasoline (engine codes: AFC, AHA, ATQ) Transmissions covered: * 5-speed Manual (transmission codes: 012, 01W, 01A) * 5-speed Automatic (transmission code 01V)

The BMW 5 Series and X5 - Marc Cranswick 2014-01-10

BMW is a company associated with motoring firsts. The very idea of a sports sedan was merely a novelty until BMW introduced the 5 series in 1972. As BMW's "middle child," the 5 series has drawn features from the company's smallest and largest models, establishing a reputation for performance and practicality through multiple generations. This book covers the history of the 5 series midsize sedan and the related X5 SUV from September 1972 to the e60's major makeover for 2008 and the development of the e70 X5. Specific mechanical, electronic and cosmetic changes are described, including the time of and reasons for their introduction. Several aspects of BMW's corporate history and technically related models such as the 6-series are also described, as are aftermarket modifications by Alpina, Hartge, and other specialist BMW tuners and speed shops. The book includes more than 200 photographs.

BMW 3 Series (E90, E91, E92, E93) Service Manual - Bentley Publishers 2011-06-01

This Bentley Manual contains in-depth maintenance, service and repair information for the BMW 3 Series from 2006 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 Complete Book of BMW - Tony Lewin

The Complete Book of BMW is a master work. The word 'definitive' is a bold claim but this book should be viewed in this light. It is the most comprehensive survey of BMW Group models from the 501 right up to this year's 1 and 6 Series published in the English language. Data tables covering specifications, production volumes and prices will be invaluable to the BMW enthusiast and the layout and production volumes are second to none. Tony Lewin deserves high praise for this outstanding book. - Chris Willows, Corporate Communications Director, BMW Great Britain BMW is the most remarkable phenomenon to hit the auto industry in a generation. Celebrated for its luxury sports cars, motorcycles and aero engines in the pre-war era, it squandered its glamorous heritage in the 1950s; on its knees and near-bankrupt, it was rejected as a lost cause when offered by desperate banks to Mercedes-Benz. But thanks to a wealthy German aristocrat, a brilliant engineer and a young and inspirational manager, Mercedes would soon regret not having scooped up the once-glorious firm: pioneering the concept of the compact, high-quality sports saloon, the visionary new team systematically built BMW into the spectacular success we know today. Through the most expressive medium of all - the cars themselves - The Complete Book of BMW tells the story of one of the most remarkable turnarounds of the century. From the iconic 2002tii of the 1960s through the mighty M3 of the 1990s to today's born-again MINI and the crowning glory of the Rolls-Royce Phantom.- Every model since 1962- Technical specifications and performance data- Production and sales data- Key decisions that made BMW great- Von Kuenheim's brilliant template- Taking technology leadership- 1,600 color photographs- The new focus: premium at every levelAbout the AuthorTony Lewin is an automotive writer and commentator specializing in the business and design sides of the auto industry. He has reported on the automobile sector for more than two decades as editor of industry publications such as What Car?, Financial Times Automotive World and World Automotive Manufacturing, and as a regular columnist in magazines and newspapers in Europe, Japan and the United States.General AudienceThe Complete Book of BMW tells the remarkable story of the company and its cars. From the luxury sports cars and motorcycles

of the pre-war era through its rebirth at the hands of a wealthy German aristocrat, a brilliant engineer, and an inspired manager during the past two decades, the book uses the most expressive medium of all-the cars themselves-to illustrate the story of one of the most remarkable turnarounds in automotive history.

Today's Technician: Manual Transmissions and Transaxles Classroom Manual and Shop Manual - Jack Erjavec 2018-12-17

Reflecting the latest ASE Education Foundation standards, the fully updated Seventh Edition of TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES covers must-know topics including dual-clutch systems, limited-slip differential designs, and all-wheel drive systems, as well as essential safety concepts and major components of the transmission system and subsystems. New material throughout the text gives readers an up-to-date understanding of the latest automotive technology and key advances in the fast-changing automotive industry. The authors have revised sections on electronic controls of transmissions, transfer cases, and differentials to feature the latest reprogramming techniques today's technicians need to know. Covering both fundamental theory and practical job skills, the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles, and a hands-on Shop Manual with full-color photo sequences and detailed job sheets, including service and repair tasks based on the latest MLR, AST, and MAST task lists. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

BMW 5 Series (E60, E61) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010: 525i, 525xi, 528i, 528xi, 530i, 530xi, 535i, 535xi, 545i, 550i - Bentley Publishers 2011-09-23

The BMW 5 Series (E60, E61) Service Manual: 2004-2010 contains in-depth maintenance, service and repair information for the BMW 5 Series 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. discuss repairs more intelligently with a professional technician. Models covered 525i and 530i * M54 engine (2004-2005) * N52 engine (2006-2007) 528i * N52K engine (2008-2010) 535i * N54 twin turbo engine (2008-2010) 545i * N62 V8 engine (2004-2005) 550i * N62 TU V8 engine (2006-2010)

Ford GT - Adrian Streater 2006

Starting in 1956 when Ford officially entered motor racing, this book takes the reader on a journey of how and why things happened the way they did. Who were the personalities behind the all the different Ford GT development programs, old and new.

BMW M3 Ultimate Portfolio 1986-2006 - 2008-02-01

The M3 is based on the prosaic 3 Series family sedan and has 'redefined' the term 'sports saloon'. There were several iterations of the M3 including two EVO versions and a convertible, but BMW shocked the world with the release of the E36 M3 in 1993. It had a new engine with a maximum speed electronically limited to 155mph. Not only was the new M3 quick but the international media was full of praise for the Germany hotrod. Everybody who was anybody simply had to be seen in one. In 2000, BMW released the E46 M3 which was a much more refined car to drive. The E46 M3 was a simply brilliant package that had absolutely no peers unless you considered the true exotics. It was a genuine sales success all over the world.

BMW M3 - James Taylor 2014-07-31

Few cars in recent years have inspired such devotion among enthusiasts as the BMW M3. Now entering its fifth generation, BMW's compact performance car is recognized worldwide as the benchmark of its type. BMW M3 - The Complete Story looks in detail at the first four generations of the M3, which arrived in the mid-1980s as an E30 'homologation special', intended to keep BMW ahead of rivals Mercedes-Benz on the racetracks. But the M3 soon became very much more than that. Before long, buyers latched onto its exclusivity and turned it into a status symbol - and BMW was only too happy to exploit that. For all fans of the BMW M3, this book provides the essential background. It is packed with facts and details that make the M3 legend come alive. With over 250 photographs, the book covers: the original E30 M3 of 1986 - from a 'homologation special' to a status symbol; design and development of the E36 M3, including a new 6-cylinder engine and more body choices; the E46 M3 of 2000, with the developed 6-cylinder S54 engine and gearshift advances; racing success for the E90-series M3s, introduced in 2007 with V8 engines; driving,

buying and special editions of all the models.

The BMW Century, 2nd Edition - Tony Lewin 2022-07-19

The BMW Century details more than one hundred years of BMW from its historic aviation roots to today's trend-setting cars and motorcycles.

BMW Buyer's Guide - Fred Larimer

From the exotic M1 and 850Csi to the popular 3, 5- and 7-Series sports luxury tourers, this all-color Buyer's Guide points the way through the full history of the BMW marque, and offers valuable specifications, production numbers, investment advice, and more. Take the "ultimate driving machine" out for a test drive before you buy! Comparable title; Illustrated BMW Buyer's Guide, 2nd ed (0-87938-754-8)

BMW 3-Series (E36) 1992-1999 - Jeffrey Zurschmeide 2016-04-15

The E36 was the embodiment of the luxury sports sedan, and the standard that other manufacturers strived to reach. And as such, the BMW 3 Series became wildly popular with BMW manufacturing 2.67 million E36 cars worldwide from 1992 to 1999. The new E36 featured a more aerodynamic design, potent dual overhead cam engine, multilink rear suspension, and a more luxurious interior than its predecessor. The E36 BMW seamlessly blended exhilarating performance with refined appointments and produced a comfortable yet aggressive driving machine that appealed to a wide audience. Although the stock BMW is a more-than-capable sports sedan, veteran author Jeffrey Zurschmeide delves into all the different methods for extracting more performance, so you can make your E36 even more potent. He explains how to upgrade handling and control through installation of aftermarket coil-over springs, bushings, sway bars, and larger brakes. Producing more power is also a priority, so he shows you how to install and set up a cold-air intake, ignition tuners, and exhaust system components. You are also guided through work on cylinder heads, cams, and pistons. In addition, you're shown the right way to install superchargers and turbo kits. If your 3 Series is making more power, then you need to get that power to the ground; guidance is provided for upgrading the transmission and limited-slip differentials. The BMW 3 Series has set the benchmark for

performance and luxury. But even at this benchmark, these cars can be dramatically improved. Each major component group of the car can be modified or upgraded for more performance, so you can build a better car that's balanced and refined. If you want to make your E36 a quicker, better handling, and more capable driving machine, this book is your indispensable guide for making it a reality.

BMW 3 Series Service Manual (E90, E91, E92, E93) 2006, 2007, 2008, 2009 Service Manual - Bentley Publishers 2010-09-01

This manual contains in-depth maintenance, service and repair information for the BMW 3 Series, E90, E91, E92, E93.

Focus On: 100 Most Popular Sedans - Wikipedia contributors

BMW M - Tony Lewin 2021-12-21

"If BMW cars are the "ultimate driving machines," then BMW's M cars (and motorcycles) are the legendary manufacturer's ne plus ultra offerings. BMW M celebrates the 50th anniversary of this prestigious German enthusiast brand"--

BMW 3 Series (E46) Service Manual - Bentley Publishers 2010-10-01

This BMW Repair Manual: 3 Series (E46): 1999-2005 is a comprehensive source of service information and technical specifications available for the BMW E46 platform 3 Series models from 1999 to 2005. Whether you're a professional or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your car. Though the do-it-yourself 3 Series owner will find this manual indispensable as a source of detailed maintenance and repair information, the owner who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician. BMW E46 models and engines covered in this repair manual: * 323i/Ci (M52 TU, 2.5 liter engine) * 328i/Ci (M52 TU, 2.8 liter engine) * 325i/Ci/xi (M54 / M56, 2.5 liter engine) * 330i/Cis/xi (M54, 3.0 liter engine) * M3 (S54, 3.2 liter Motorsport engine)