

### *Bmw Engine N46*

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 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

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repair your 3 Series. Engines (Gasoline): N20 engine: 320i, 328i, including xDrive N26 (SULEV) engine: 328i including xDrive N55 engine: 335i, including xDrive The ultimate service manuals! Bentley manuals are the only comprehensive, single source of service information and specifications available for BMW cars. These manuals provide the highest level of clarity and completeness for all service and repair procedures. Enthusiasts, do-it-yourselfers, and professional technicians will appreciate the quality of photographs and illustrations, theory of operation, and accurate step-by-step instructions. If you are looking for better understanding of your BMW, look no further than Bentley. Even if you do not repair your own vehicle, knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician. This Bentley Manual is the only comprehensive, single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2002. The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and accurate specifications. Whether you are a professional or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your E39 5 Series. Though the do-it-yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information, the BMW 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 repair manuals The ultimate service manuals! Bentley manuals are the only

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comprehensive, single source of service information and specifications available for BMW cars. These manuals provide the highest level of clarity and completeness for all service and repair procedures. Enthusiasts, do-it-yourselfers, and professional technicians will appreciate the quality of photographs and illustrations, theory of operation, and accurate step-by-step instructions. If you are looking for better understanding of your BMW, look no further than Bentley. Even if you do not repair your own vehicle, knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician.

BMW 3 Series - E36 Restoration Tips & Techniques

Low-Speed Wind Tunnel Testing

Service Manual ; 735i, 735iL, 740i, 740iL, 750iL, 1988, 1989, 1990, 1991, 1992, 1993, 1994

Focus On: 100 Most Popular Compact Cars

Street Railways of El Paso

BMW 3 Series (E46) Service Manual

From debut author, Olivia Stephen, comes a steamy, contemporary romance novel about loss, love, and second chances. When her first love abandons her, and a heart-wrenching accident takes her parents too soon, Raina decides it's time for a fresh start. In a brand new town, with walls planted firmly around her heart, Raina has given up on her happily ever after, deciding it's easier to be alone than to risk losing it all. For a second time. When she meets Zane, the new bartender in the small North Carolina town she now calls home, the foundation of those walls begins to crumble. Broody, irritable, and incredibly sexy, there's something about him she just

can't shake. As they begin to forge a connection together, Zane's tumultuous past catches up with him and threatens to destroy any potential future they may have, leaving Raina to question all the decisions she's made. Watching over Raina is the hardest promise Zane has ever had to make. Sometimes love doesn't heal all wounds and not all happy endings are meant to be. But perhaps two tortured souls can find the peace they deserve, together. \*\*Mature audiences. 18+

HANDBOOK of IMPROVING PERFORMANCE IN THE WORKPLACE Volume 3: Measurement and Evaluation Volume Three of the Handbook of Improving Performance in the Workplace focuses on Measurement and Evaluation and represents an invaluable addition to the literature that supports the field and practice of Instructional Systems Design. With contributions from leading national scholars and practitioners, this volume is filled with information on time-tested theories, leading-edge research, developments, and applications and provides a comprehensive review of the most pertinent information available on critical topics, including: Measuring and Evaluating Learning and Performance, Designing Evaluation, Qualitative and Quantitative Performance Measurements, Evidence-based Performance Measurements, Analyzing Data, Planning Performance Measurement and Evaluation, Strategies for Implementation, Business Evaluation Strategy, Measurement and Evaluation in Non-Profit Sectors, among many others. It also contains illustrative case studies and performance support tools. Sponsored by International Society for Performance Improvement (ISPI), the Handbook of Improving Performance in the Workplace, three-volume reference, covers three core areas of interest including Instructional Design and Training Delivery, Selecting and Implementing Performance Interventions, and Measurement and Evaluation.

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BMW 3- & 5-Series Petrol (81 - 91) up to J 3-Series (E30) 316, 316i, 318i, 320i, 325i; Saloon, Touring & Convertible (83 - 91, up to H). 5-Series (E28) 518, 518i, 525i, 528i, 535i, M535i; 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.

This book describes the discusses advanced fuels and combustion, emission control techniques, after-treatment systems, simulations and fault diagnostics, including discussions on different engine diagnostic techniques such as particle image velocimetry (PIV), phase Doppler interferometry (PDI), laser ignition. This volume bridges the gap between basic concepts and advanced research in internal combustion engine diagnostics, making it a useful reference for both students and researchers whose work focuses on achieving higher fuel efficiency and lowering emissions.

Maximum Boost

Gasoline-engine Management

Consumers Index to Product Evaluations and Information Sources

BMW 5 Series (E39) Service Manual 1997-2002, Volume 2: 525i, 528i, 530i, 540i, Sedan, Sport Wagon

Bibliography on Gas Turbines, 1896-1948

BMW M3 Ultimate Portfolio 1986-2006

*At last, a comprehensive reference book featuring 1000 of the world's most interesting*

*historic automobile sites. The sites include automobile museums and collections, homes and birthplaces of world famous auto pioneers, plus old car factories and racing circuits. (Transportation)*

*This reader provides an introduction to the gendering of science and the impact women are making in laboratories around the world. The republished essays included in this collection are both personal tales from women scientists and essays on the nature of science itself, covering such controversial issues like the under-representation of women in science, reproductive technology, sociobiology, evolutionary theory, and the notion of objective science.*

*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.*

*Spanish explorers traveling north from Mexico in 1581 crossed the Rio Grande at present-day El Paso and called the area El Paso Del Norte, or "the pass of the north." Two cities were linked together: Ciudad Juarez and El Paso. In 1881, the railroad brought even more people to El Paso. What had been a sleepy adobe town became a vibrant, bustling city. Public transportation was established with a mule-car system in 1882 and ran for 20 years. The first electric cars were introduced in 1902 and were also very successful, serving all parts of the city and establishing neighborhoods. At the zenith of the system, there were 63 miles of track, 17 routes, and over 100 streetcars. In those days, everyone used the electric cars.*

*1000 Historic Automobile Sites*

*1981 to 1994*

*The Complete Story*

*A Reader in Feminist Science Studies*

*1995 Annual*

*The BMW 5 Series and X5*

Discover what it takes to create a sustainable competitive advantage in management and business today with this straightforward, powerful strategic management resource. **COMPETING FOR ADVANTAGE**, 3E focuses specifically on

the issues most important to today's current or future practitioner. The book details the processes and tools you need to better understand and effectively contribute to your organization's strategic management process. Applied examples illustrate the latest thinking, practices, and research in strategic management today with in-depth discussions that examine critical topics such as innovation, professional service and crisis management. Access to relevant cases, a focus on the emerging issues such as ethics, and an emphasis on technology throughout prepare you for success in the fast-paced, ever-changing global economy in which today's firms compete. Take your students to a new level of understanding strategic management concepts and practices with *COMPETING FOR ADVANTAGE*, 3E. Straightforward, focused, and concise, this edition presents the latest strategic management research and practices, now with more in-depth discussions of the most current strategic topics in business today. Detailed real-life examples and instant access to relevant cases keep the book focused on issues most important to current or future practitioners. Crafted to meet the special needs to MBA and executive MBA students, the book details the processes and tools used in strategic analysis to create a sustainable competitive advantage. Full chapters on strategic leadership, corporate governance, and a new chapter on real options examine issues most critical in today's business environment. Comprehensive new instructor support with electric solutions help you effectively prepare a powerful course that addressed traditional and relevant emerging topics that are shaping strategic management today. Important Notice: Media content referenced within

the product description or the product text may not be available in the ebook version.

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, *Low-Speed Wind Tunnel Testing, Third Edition* is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and

experiments in their work.

Having this book in your pocket is just like having a real marque expert at your side. Benefit from Ralph Hosier's years of BMW experience, learn how to spot a bad car quickly, and how to assess a promising one like a true professional. Get the right car at the right price!

BMW, that most performance-oriented of car companies, had no affordable sports roadster in its line-up before 1995. Stung into action by Mazda's revival of the classic two-seater roadster, the Germany company quickly staked its claim with the Z3, a classic long-nose, short-tail design that used existing BMW mechanical hardware to good effect. This new book tells the story of BMW's Z3 and Z4 two-seater roadsters and coupes, which since 1995 have been at the forefront of the affordable sports car market. The history of the Z3 and both generations of Z4 are covered as well as full specifications of all models; the formidable M Power derivatives and a guide to buying and owning. The book is profusely illustrated with over 200 colour photographs and diagrams. Contents include: Historical background to BMW's arrival in the two-seater sports car market; Complete history of the Z3 and both generations of Z4; Full specifications of all models; The formidable M Power derivatives; Guide to buying and owning.

BMW 3- & 5-series Service and Repair Manual

Consumers Index to Product Evaluations & Information Sources

The Named

Bmw Engines

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Designing, Testing and Installing Turbocharger Systems

Bmw M20, Bmw M62, List of Bmw Engines, Bmw N54, Bmw M30, Bmw M10, Bmw N52, Bmw M52, Bmw M50, Bmw Ohv V8 Engine, Bmw N47, Bmw S85, Bmw M57

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.

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

Just Plain John is an autobiography of the first seventeen years of John Hardgrave's life. His ability to remember dates and the names of people and places is truly a gift. When he was fifty years old, he began to tell his wife the story of his early life on an 11,000 plus acre ranch in far West Texas. It is from the notes that she took as they drove and talked that the book developed. John now lives with his wife and two dogs in Red Oak, Texas, which is a small town just south of Dallas. This book grew out of John's strong desire to keep the heritage of our nation alive. He exemplifies a strong personal responsibility to maintain the freedom of the United States.

This BMW Repair Manual: 3 Series (E46): 1999-2005 is a comprehensive source of

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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)

Brakes and Electronic Stability Control

Advanced Engine Diagnostics

BMW 3-Series Petrol and Diesel Service and Repair Manual

BMW M3

M3, 323i, 325i, 325xi, 328i, 330i, 330xi, Sedan, Coupe, Convertible, Sport Wagon:  
1999, 2000, 2001, 2002, 2003, 2004 2005

A History of Production Cars and Tuner Specials, 1972 – 2008

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)

The super-manual for Miata owners. The author has personally dismantled and reassembled a Miata, taking step-by-step pictures of all procedures. This, combined with his personal interest in the Miata and his years of writing and editing Haynes manuals, provides the background necessary to write the best Miata shop manual available. Coverage includes maintenance, repairs, modifications and improvements on all 1.6-liter Miatas from 1989-1994.

Datsun's initial offerings were fairly conventional family cars, but with the introduction of the 240Z in 1969 the marque's image received a massive boost. It was a runaway success, outselling every European sports car model in the lucrative North American market. The 280Z arrived in 1975 followed by the 280ZX in 1978 and sales of the 280ZX had reached over 446,000 units by the time production came to an end in 1983. 44 international articles include road, track and comparison tests, a service guide plus full technical and performance data.

Whether youre interested in better performance on the road or extra horsepower to be a winner on the track, this book gives you the knowledge you need to get the most out of your engine and its turbocharger system. Find out what works and what doesnt, which turbo is right for your needs, and what type of set-up will give you that extra boost. Bell shows you how to select and install the right turbo, how to prep your engine, test the systems, and integrate a turbo with EFI or carbureted engine.

BMW E30 3 Series

Competing for Advantage

BMW Z3 and Z4

Handbook of Improving Performance in the Workplace, Measurement and Evaluation

Watch Over Her

Women, Science, and Technology

Following on from the merger between AMG and DaimlerChrysler in 1999, things really began to happen for AMG Mercedes-Benz enthusiasts. The special touch of the AMG engineers was being seen on every model in the entire vast Mercedes-Benz model range, from the prosaic C-Class through to the S-Class and the SLK sports cars, as well as the ML and G-Class off-roader wagons. Not to be left out was the exotic Mercedes-Benz SLR McLaren with its supercharged 5.5 litre quad-cam V8 engine that was fettled by the AMG people. Included are road and comparison tests, model releases, technical and performance data, plus advice on buying a Mercedes-Benz AMG. Models covered include the C30, 32 & 55, CLK430, 55, TDM & GTR, CL55 & 65, CLS55, E55, G55, ML55, S55 & 65, SL55 & 65, SLK32 & 55 Plus SLR McLaren.

125 Creative Writing Prompts for Petrolheads is a book (the first of a niche-inspired series) for the word lover who is also

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car crazy. Accelerate your writing with some out-of-the (gear)box scribbling - if you are just writing for fun or if you are an experienced 'old' hand, thinking that you have already written it all. Get your creativity revved up with anything from memory-inspired nostalgic prompts to outlandishly silly ones. Whether it is for yourself or a gift to your dad, petrolhead girlfriend or bro, it will put some vroom in your writing life. 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

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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

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Wiley.

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 exotcars. It was a genuine sales success all over the world.

101 Performance Projects for Your BMW 3 Series 1982-2000

The Complete Book of BMW

BMW 3-Series (E30) Performance Guide

125 Creative Writing Prompts for Petrolheads

BMW Buyer's Guide

Bmw EnginesBmw M20, Bmw M62, List of Bmw Engines, Bmw N54, Bmw M30, Bmw M10, B

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N52, Bmw M52, Bmw M50, Bmw Ohv V8 Engine, Bmw N47, Bmw S85, Bmw M57 University-Press.org

Ethan is a member of the Named, sworn to fight the Order of Chaos, an evil group determined permanently change the course of history. But he is also a normal high school student trying desperately to keep up with his homework and fit in. When he is assigned to mentor Isabel, a classmate and future member of the Named, the line between his two lives begins to blur. So begins an epic quest as Ethan, Isabel, and others travel through time to battle dark forces and protect the future.

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.

Please note that the content of this book primarily consists of articles available from Wikipedia and other free sources online. Pages: 39. Chapters: BMW M20, BMW M62, List of BMW engines, BMW N54, BMW M30, BMW M10, BMW N52, BMW M52, BMW M50, BMW OHV V8 engine, BMW N47, BMW S85, BMW M57, BMW M60, Prince engine, BMW N63, BMW M47, BMW

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N62, BMW S65, BMW M88, BMW S54B32, Tritec engine, BMW N53, BMW M42, BMW M54, BMW M56, BMW M43, BMW M12, BMW M70, BMW N55, BMW N57, BMW N46, BMW N73, BMW N74, BMW M40, BMW M51, BMW Goldfish V16, BMW N42, BMW 247 engine, BMW M67, BMW M73, P60B40, BMW M44, BMW M21, BMW N43, BMW N45, BMW M41, BMW S14, BMW M06, BMW M78, BMW M102, BMW M106. Excerpt: The M20 is an inline-6 piston engine by BMW. Initially designated M20, the 12-valve, belt driven SOHC design was introduced in the 1977 BMW 520/6 and 320/6 as an entirely new design. With displacements ranging from 1.8 to 2.7 liters, it was the "little brother" to the larger BMW M30 engine. It had 91 mm (3.6 in) stroke instead of 100 mm (3.9 in) of the M30. It was intended to replace the larger displacement 4-cylinder motors and was born out of BMW's conviction that a small six had more development potential than a large four (i.e. 2 liters+) Powering the E21 and E30 3-Series, as well as E12, E28, and E34 5 Series cars, it was produced for nearly two decades, with the last examples powering the E30 325i touring built until April 1993. By that time, the newer twin-cam M50 engines with 5 valves per cylinder had already been used in the E36 and E34 for a couple of years. Three different head castings were used over the engine's production run. The earliest was #12642 aka the "200." These were used in all e21 320/6 and 323i and e12 520/6 engines and later in the e30 eta engines (eta denoting the 'efficiency' version of the engine, with a lower engine redline amongst other focused differences aimed at increasing fuel economy). The next version was #1277731 aka the "731." This head...

BMW 7 Series

Datsun 280Z & 280ZX

BMW 3 Series (F30, F31, F34) Service Manual: 2012, 2013, 2014, 2015: 320i, 328i, 328d, 330i, 335i

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Including Xdrive  
Tuning the Norton Twin  
Driven  
Mazda MX-5 Miata 1.6