

# The new Bosch injection system for two-wheelers

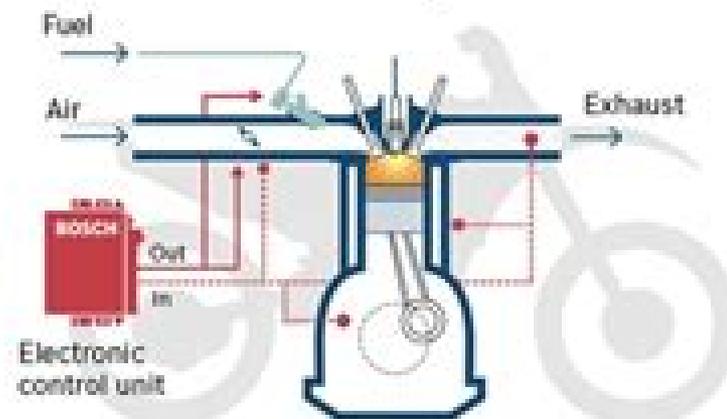
## Carburetor system



Fixed system: The air-fuel combination in the carburetor is preset and cannot be changed during operation.

vs.

## New Bosch system



Flexible system: The electronic control unit in the Bosch Engine Management System (EMS) receives constant feedback from sensors and can control the optimal air-fuel combination.

## Benefits of the Bosch injection system



### Environment

The electronically controlled fuel injection allows much more efficient fuel combustion, reducing emissions.



### Economy

EMS technology means more efficient fuel combustion and a fuel saving of up to 16%.



### Comfort

The electronic control system improves cold-start performance as well as motor dynamics.

## Bosch technology sets the stage for:



### More fun

A dynamic driving experience thanks to better engine performance.



### Connectivity

Collect ride data, disarm immobilizers and diagnose faults from your smartphone.



### More safety

E.g. Motorcycle Stability Control (MSC) delivers a safer ride.

# Bosch Engine Management System

**Marco Cascella**



## **Bosch Engine Management System:**

Diesel-Engine Management Robert Bosch GmbH,2005-06-29 The BOSCH handbook series on different automotive technologies has become one of the most definitive sets of reference books that automotive engineers have at their disposal Different topics are covered in a concise but descriptive way backed up by diagrams graphs and tables enabling the reader to comprehend the subject matter fully For more than 75 years BOSCH has set the pace in innovative diesel fuel injection technology These innovations have been documented in the third completely revised edition of the Diesel Engine Management handbook The electronics that control the diesel engine are explained in easy detail It provides a comprehensive description of all conventional diesel fuel injection systems It also contains a thorough and detailed introduction to the modern rail system Unit Injector System UIS and Unit Pump System UPS including the radialpiston distributor injection pump This comprehensive reference work on diesel fuel injection technology is aimed at both engine technology experts in industry and those in the area of vocational training For the trainee and students at university the book is an indispensable reference work and for mechanics and engineers in the servicing field it provides valuable basic information on the highly demanding diesel fuel injection technology

**Diesel Engine Management** Konrad Reif,2014-07-18 This reference book provides a comprehensive insight into today's diesel injection systems and electronic control It focusses on minimizing emissions and exhaust gas treatment Innovations by Bosch in the field of diesel injection technology have made a significant contribution to the diesel boom Calls for lower fuel consumption reduced exhaust gas emissions and quiet engines are making greater demands on the engine and fuel injection systems

**How to Tune and Modify Engine Management Systems** Jeff Hartman,2004-02-13 Drawing on a wealth of knowledge and experience and a background of more than 1 000 magazine articles on the subject engine control expert Jeff Hartman explains everything from the basics of engine management to the building of complicated project cars Hartman has substantially updated the material from his 1993 MBI book Fuel Injection 0 879387 43 2 to address the incredible developments in automotive fuel injection technology from the past decade including the multitude of import cars that are the subject of so much hot rodding today Hartman's text is extremely detailed and logically arranged to help readers better understand this complex topic

Gasoline Engine Management: Basics and Components Robert Bosch,2001-09 The familiar yellow Technical Instruction series from Bosch have long proved one of their most popular instructional aids They provide a clear and concise overview of the theory of operation component design model variations and technical terminology for the entire Bosch product line and give a solid foundation for better diagnostics and servicing Clearly written and illustrated with photos diagrams and charts these books are equally at home in the vocational classroom apprentices toolkit or enthusiasts fireside chair If you own a car especially a European one you have Bosch components and systems Covers EGAS electronic throttle control Gasoline direct injection NOx accumulator type catalytic converter

**Gasoline Engine Management** Konrad Reif,2014-07-22 The call for

environmentally compatible and economical vehicles necessitates immense efforts to develop innovative engine concepts. Technical concepts such as gasoline direct injection helped to save fuel up to 20 % and reduce CO2 emissions. Descriptions of the cylinder charge control, fuel injection, ignition, and catalytic emission control systems provide a comprehensive overview of today's gasoline engines. This book also describes emission control systems and explains the diagnostic systems. The publication provides information on engine management systems and emission control regulations.

**Bosch Gasoline Engine Management Handbook** Robert Bosch GmbH., 2004-01-01. Starting with a brief review of the beginnings of automotive history, this book discusses the basics relating to the method of operation of gasoline engine control systems. The descriptions of cylinder charge control systems, fuel injection systems, intake manifold and gasoline direct injection and ignition systems provide a comprehensive firsthand overview of the control mechanisms indispensable for operating a modern gasoline engine. The practical implementation of engine management and control is described by the examples of various Motronic variants and of the control and regulation functions integrated in this particular management system. The book concludes with a chapter describing how a Motronic system is developed.

Gasoline-engine Management Robert Bosch GmbH., 2001.

**VW GTI, Golf, Jetta, MK III & IV** Kevin Clemens, Volkswagen's GTI, Golf, and Jetta are long-time favorites among sport compact performance enthusiasts. With engines ranging from the 2.0-liter naturally aspirated four-cylinder to the 1.8-liter turbo 4 to the VR6, the Mk III and Mk IV generations (1993-2004) offer tuners a wealth of opportunities. This book turns these opportunities into realities, from deciding which vehicle to buy to keeping it running in tip-top condition to enhancing the performance and appearance of your VW. Focusing on the engine, wheels and tires, suspension, body kits, interiors, and more, each project includes straightforward instruction along with details about the necessary parts, cost, time, and skill. If you want to get the biggest bang for your VW buck, this book is your road map.

*Computerized Engine Control* Peter King, Dick H. King, 1998. Computerized Engine Controls, 5E, 1998. Update to the Fifth Edition explores the many ways in which computers affect the driveability, performance, fuel economy, and emissions quality of today's vehicles. By referencing the fundamentals of electricity and computers, this text illustrates how to systematically apply the information to products of virtually all automobile manufacturers. Each chapter contains real-world examples of applications of the information presented, selected lists of technical terms, introduced diagnostic exercises, and review questions.

*Bosch Fuel Injection and Engine Management* C. Probst, 1989-11-27. This Bosch Bible fully explains the theory, troubleshooting, and service of all Bosch systems from D-Jetronic through the latest Motronics. Includes high-performance tuning secrets and information on the newest KE and LH Motronic systems not available from any other source.

**Gasoline-engine Management**, 1999. Rapid developments in engine electronics and systems have resulted in important far-reaching changes in the spark-ignition engine's equipment and management. The outcome has been increased fuel efficiency, decreased emissions, improved driving smoothness, and running refinement and optimal trouble-free service life. Gasoline Engine Management provides

comprehensive information ranging from the design and function of various generations of fuel injection and ignition systems to current gasoline engine management systems using the M and ME Motronic Systems Contents include Combustion in the spark ignition SI engine System development Emissions Control Technology Spark Ignition Engine Management Gasoline Injection Systems Ignition Systems Spark Plugs M Motronic Engine Management System ME Motronic Engine Management System ME D Engine Management

**Gasoline-Engine Management** Robert Bosch,2006-09 A brief retrospective of the early years of the history of the automobile is followed by a description of the principles behind the operation management and control of a gasoline spark ignition engine Descriptions of the cylinder charge control fuel injection ignition and catalytic emission control systems provide a comprehensive overview of the control mechanisms which are essential to the operation of a modern gasoline engine The texts dealing with the Motronic engine management system illustrate how this is put into practice Particular emphasis is placed here on the diagnostic functions which on account of the ever more stringent requirements of emission control legislations make up an increasing proportion of the Motronic system

**The Development of the Engine Control Module Software for Cornell's 2003 Formula SAE Reace Car** Adnan Albakri,2003

**Gasoline-Engine Management** Robert Bosch GmbH,2005-07-18 The BOSCH handbook series on different automotive technologies has become one of the most definitive sets of reference books that automotive engineers have at their disposal Different topics are covered in a concise but descriptive way backed up by diagrams graphs and tables enabling the reader to comprehend the subject matter fully This book discusses the basics relating to the method of operation of gasoline engine control systems The descriptions of cylinder charge control systems fuel injection systems intake manifold and gasoline direct injection and ignition systems provide a comprehensive firsthand overview of the control mechanisms indispensable for operating a modern gasoline engine The practical implementation of engine management and control is described by the examples of various Motronic variants and the control and regulation functions integrated in this particular management systems The book concludes with a chapter describing how a Motronic system is developed

**BMW 3-series** Robert Bentley, inc,Bentley Publishers,1991 Engine coverage1 8 liter 4 cylinder B18 2 7 liter 6 cylinder B27 2 5 liter 6 cylinder B25 Transmission coverageGetrag 240 4 cylinder cars Getrag 260 6 cylinder cars

*Motor Industry Management* ,2003-02 *Automotive Engineering* ,1997 **Autocar** ,2003 **Automotive Technology International** ,1988

**One Hundred Years of H** E. Beltrametti,A. Rimini,Nadia Robotti,2002

## Unveiling the Magic of Words: A Report on "**Bosch Engine Management System**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Bosch Engine Management System**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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