



Gasoline Engine Management (BOSCH-G2000)

By Robert Bosch



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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. 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 (in-take 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 engine-management systems and of the control and regulation functions integrated in this particular management system.

The 3rd edition offers new or completely revised chapters in the following areas - High pressure pumps for direct gasoline injection; Mixture formation for manifold injection; Gasoline engines fuelled by natural gas; Catalytic exhaust-gas treatment; Diagnostics. A key chapter looks at emission control legislation and provides an insight into the complexity of the statutory provisions.

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Editorial Review

Review

'...provides a comprehensive, first hand overview of the control mechanisms.' (Motor Industry Magazine, February 2010).

From the Back Cover

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 legislation, make up an increasing proportion of the Motronic system.

Contents-Central themes

Basics of the gasoline engine-Fuels-Cylinder-charge control systems-Fuel supply-Manifold fuel injection-Gasoline direct injection-Operation on natural gas-Inductive ignition system-Ignition coils-Spark plugs-Motronic systems-Sensors-Electronic control unit(ECU)-Exhaust emissions-Catalytic emission control-Emission-control legislation-Exhaust-gas measuring techniques-Diagnosis-ECU development

The target groups

- Motor-vehicle technicians in education and vocational training
- Master mechanics and technicians in garage-workshops
- Teachers and lecturers in vocational schools
- Students at universities and technical colleges and all those interested in automotive engineering

About the Bosch Group

Bosch is the world's largest independent supplier of parts and equipment for motor Vehicles. Innovations by Bosch have shaped the development of the automobile. Bosch's dominant technological role in many fields is demonstrated by the fact that it has the most patent applications in automotive engineering in Germany, to the European Patent Office and in the USA.

About the Author

Robert Bosch GmbH is ranked among the world's major equipment suppliers. The experts from the relevant divisions of Bosch that make up the editorial team is at the forefront of technical developments in their field. Bosch demonstrates its market leadership in automotive technology through the sheer number of its applications for patents and patented designs.

Users Review

From reader reviews:

Gregory Jones:

As people who live in typically the modest era should be change about what going on or facts even knowledge to make these individuals keep up with the era and that is always change and move ahead. Some of you maybe may update themselves by looking at books. It is a good choice for yourself but the problems coming to a person is you don't know which you should start with. This Gasoline Engine Management (BOSCH-G2000) is our recommendation to help you keep up with the world. Why, as this book serves what you want and want in this era.

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