



ENGINE CONTROL (3RZ-FE)

SYSTEM OUTLINE

THE ENGINE CONTROL SYSTEM UTILIZES A MICROCOMPUTER AND MAINTAINS OVERALL CONTROL OF THE ENGINE, TRANSMISSION, ETC. AN OUTLINE OF ENGINE CONTROL IS GIVEN HERE.

1. INPUT SIGNAL

- (1) ENGINE COOLANT TEMP. SIGNAL SYSTEM
THE ENGINE COOLANT TEMP. SENSOR DETECTS THE ENGINE COOLANT TEMP. AND HAS A BUILT-IN THERMISTOR WITH A RESISTANCE WHICH VARIES ACCORDING TO THE WATER TEMP. THUS THE WATER TEMP. IS INPUT IN THE FORM OF A CONTROL SIGNAL TO **TERMINAL THW** OF THE ENGINE CONTROL MODULE.
- (2) INTAKE AIR TEMP. SIGNAL SYSTEM
THE INTAKE AIR TEMP. SENSOR IS INSTALLED INSIDE THE MASS AIR FLOW METER AND DETECTS THE INTAKE AIR TEMP., WHICH IS INPUT AS A CONTROL SIGNAL TO **TERMINAL THA** OF THE ENGINE CONTROL MODULE.
- (3) HEATED OXYGEN SENSOR SIGNAL SYSTEM
THE OXYGEN DENSITY IN THE EXHAUST EMISSIONS IS DETECTED AND INPUT AS A CONTROL SIGNAL TO **TERMINAL OX1** OR **OX2** OF THE ENGINE CONTROL MODULE. TO MAINTAIN STABLE DETECTION PERFORMANCE BY THE HEATED OXYGEN SENSOR, A HEATER IS USED FOR WARMING THE SENSOR. THE HEATER IS ALSO CONTROLLED BY THE ENGINE CONTROL MODULE (**HT1** OR **HT2**).
- (4) RPM SIGNAL SYSTEM
CAMSHAFT POSITION AND CRANKSHAFT POSITION ARE DETECTED BY THE CAMSHAFT POSITION SENSOR AND CRANKSHAFT POSITION SENSOR. CAMSHAFT POSITION IS INPUT AS A CONTROL SIGNAL TO **TERMINAL G** OF THE ENGINE CONTROL MODULE, AND ENGINE RPM IS INPUT TO **TERMINAL NE**.
- (5) THROTTLE SIGNAL SYSTEM
THE THROTTLE POSITION SENSOR DETECTS THE THROTTLE VALVE OPENING ANGLE, WHICH IS INPUT AS A CONTROL SIGNAL TO **TERMINAL YTA** OF THE ENGINE CONTROL MODULE.
- (6) VEHICLE SPEED SIGNAL SYSTEM
THE VEHICLE SPEED SENSOR, INSTALLED INSIDE THE COMBINATION METER, DETECTS THE VEHICLE SPEED AND INPUTS A CONTROL SIGNAL TO **TERMINAL SP1** OF THE ENGINE CONTROL MODULE.
- (7) A/C SW SIGNAL SYSTEM
THE OPERATING VOLTAGE OF THE A/C MAGNETIC CLUTCH IS DETECTED AND INPUT IN THE FORM OF A CONTROL SIGNAL TO **TERMINAL AC1** OF THE ENGINE CONTROL MODULE.
- (8) BATTERY SIGNAL SYSTEM
VOLTAGE IS CONSTANTLY APPLIED TO **TERMINAL BATT** OF THE ENGINE CONTROL MODULE. WHEN THE IGNITION SW IS TURNED TO ON, VOLTAGE FOR ENGINE CONTROL MODULE OPERATION IS APPLIED VIA THE EFI RELAY TO **TERMINAL +B** OF THE ENGINE CONTROL MODULE.
- (9) INTAKE AIR VOLUME SIGNAL SYSTEM
INTAKE AIR VOLUME IS DETECTED BY THE MASS AIR FLOW METER AND A SIGNAL IS INPUT INTO **TERMINAL VG** OF THE ENGINE CONTROL MODULE AS A CONTROL SIGNAL.
- (10) STOP LIGHT SW SIGNAL SYSTEM
THE STOP LIGHT SW IS USED TO DETECT WHETHER OR NOT THE VEHICLE IS BRAKING AND THE INFORMATION IS INPUT AS A CONTROL SIGNAL TO **TERMINAL BK** OF THE ENGINE CONTROL MODULE.
- (11) STARTER SIGNAL SYSTEM
TO CONFIRM THAT THE ENGINE IS CRANKING, THE VOLTAGE APPLIED TO THE STARTER MOTOR DURING CRANKING IS DETECTED AND IS INPUT AS A CONTROL SIGNAL TO **TERMINAL STA** OF THE ENGINE CONTROL MODULE.
- (12) ENGINE KNOCK SIGNAL SYSTEM
ENGINE KNOCKING IS DETECTED BY THE KNOCK SENSOR AND INPUT AS A CONTROL SIGNAL TO **TERMINAL KNK** OF THE ENGINE CONTROL MODULE.
- (13) 4WD SIGNAL SYSTEM
WHETHER OR NOT THE VEHICLE IS OPERATING IN 4WD MODE IS DETERMINED, AND A CONTROL SIGNAL IS INPUT TO **TERMINAL 4WD** OF THE ENGINE CONTROL MODULE.

3rz Fuel Injection Engine Control

Greg Banish



3rz Fuel Injection Engine Control:

Automotive Engineering ,1995-07 Computerized Fuel Injection - Engine Control Jeffrey Lynch,1991-01-01 **Diesel**

Common Rail and Advanced Fuel Injection Systems Philip J Dingle,Ming-Chia D Lai,2005-09-12 Despite being developed more than 100 years ago the diesel engine has yet to achieve mass acceptance in the North American passenger car sector In most other parts of the world however diesel engines have made considerable strides due in part to the common rail fuel injection system Significant fuel economy reduced exhaust emissions invincible low speed torque and all around good drivability are a few of the benefits associated with common rail technology which are covered in depth in Diesel Common Rail and Advanced Fuel Injection Systems Designing and Tuning High-Performance Fuel Injection Systems Greg Banish,2009 Greg Banish takes his best selling title Engine Management Advanced Tuning one step further as he goes in depth on the combustion basics of fuel injection as well as benefits and limitations of standalone Learn useful formulas VE equation and airflow estimation and more Also covered are setups and calibration creating VE tables creating timing maps auxiliary output controls start to finish calibration examples with screen shots to document the process Useful appendixes include glossary and a special resources guide with standalone manufacturers and test equipment manufacturers

Common Rail Fuel Injection Technology in Diesel Engines Guangyao Ouyang,Shijie An,Zhenming Liu,Yuxue Li,2019-06-18 A wide ranging and practical handbook that offers comprehensive treatment of high pressure common rail technology for students and professionals In this volume Dr Ouyang and his colleagues answer the need for a comprehensive examination of high pressure common rail systems for electronic fuel injection technology a crucial element in the optimization of diesel engine efficiency and emissions The text begins with an overview of common rail systems today including a look back at their progress since the 1970s and an examination of recent advances in the field It then provides a thorough grounding in the design and assembly of common rail systems with an emphasis on key aspects of their design and assembly as well as notable technological innovations This includes discussion of advancements in dual pressure common rail systems and the increasingly influential role of Electronic Control Unit ECU technology in fuel injector systems The authors conclude with a look towards the development of a new type of common rail system Throughout the volume concepts are illustrated using extensive research experimental studies and simulations Topics covered include Comprehensive detailing of common rail system elements elementary enough for newcomers and thorough enough to act as a useful reference for professionals Basic and simulation models of common rail systems including extensive instruction on performing simulations and analyzing key performance parameters Examination of the design and testing of next generation twin common rail systems including applications for marine diesel engines Discussion of current trends in industry research as well as areas requiring further study Common Rail Fuel Injection Technology is the ideal handbook for students and professionals working in advanced automotive engineering particularly researchers and engineers focused on the design of internal combustion

engines and advanced fuel injection technology Wide ranging research and ample examples of practical applications will make this a valuable resource both in education and private industry

Domestic Electronic Fuel Injection and Computer Systems Frederick D. Allen,1988 Performance Fuel Injection Systems HP1557 Matt Cramer,Jerry Hoffmann,2010-08-03

A practical guide to modifying and tuning modern electronic fuel injection EFI systems including engine control units ECUs The book starts out with plenty of foundational topics on wiring fuel systems sensors different types of ignition systems and other topics to help ensure the reader understands how EFI Systems work Next the book builds on that foundation helping the reader to understand the different options available Re tuning factory ECUs add on piggyback computers or all out standalone engine management systems Next Matt and Jerry help the reader to understand how to configure a Standalone EMS get the engine started prep for tuning and tune the engine for maximum power and drivability Also covered is advice on tuning other functions acceleration enrichments closed loop fuel correction and more Finally the book ends with a number of case studies highlighting different vehicles and the EMS solutions that were chosen for each helping to bring it all together with a heavy emphasis on how you can practically approach your projects and make them successful Engine Management Systems Autodata Limited,2002

Fuel Injection Systems: Comprehensive Guide for Enthusiasts and Technicians Pasquale De Marco,2025-08-12 This comprehensive guidebook delves deep into the world of fuel injection systems providing a thorough exploration of their operation maintenance and troubleshooting for automotive enthusiasts technicians and anyone seeking to enhance their knowledge in this field Covering the entire spectrum from basic principles to advanced technologies this book is an invaluable resource for those interested in maximizing the efficiency and performance of internal combustion engines It begins with an introduction to fuel injection systems explaining their evolution types and advantages over traditional carburetion systems Subsequent chapters explore the fundamental components of fuel injection systems in detail including fuel injectors fuel rails and electronic control modules The book then delves into the operation of fuel injection systems discussing topics such as fuel delivery and metering air fuel mixture control ignition timing feedback systems and engine management Advanced fuel injection systems such as direct fuel injection common rail fuel injection and variable valve timing are also covered highlighting their benefits and applications in modern engines A significant portion of the book is dedicated to troubleshooting fuel injection systems providing practical guidance on identifying and diagnosing common problems using diagnostic tools and techniques Step by step instructions for testing and replacing sensors injectors and fuel pumps empower readers with the knowledge and skills to maintain and repair fuel injection systems effectively The book concludes with a comprehensive glossary of fuel injection terms and acronyms providing easy reference for key concepts and industry jargon Whether you re an automotive enthusiast seeking to enhance your understanding of fuel injection systems or a technician looking to expand your knowledge and skills this book is an essential addition to your library Its comprehensive coverage clear explanations and practical troubleshooting guidance

make it an invaluable resource for anyone interested in the efficient operation and maintenance of modern internal combustion engines If you like this book write a review

Fuel Injection Systems Source Wikipedia,2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 33 Chapters Anti dribble valve Digifant Engine Management system Electronic control unit Engine control unit Envirofit International Fuel injection Fuel rail Gasoline direct injection Indirect injection Injection pump Jacketed fuel injection pipe Jetronic Kugelfischer Lucas 14CUX MegaSquirt Motronic Orbital Corporation Powertrain control module SDI engine SPICA Turbocharged Direct Injection VEMS Excerpt Fuel rail connected to the injectors that are mounted just above the intake manifold on a four cylinder engine Fuel injection is a system for admitting fuel into an internal combustion engine It has become the primary fuel delivery system used in automotive engines having replaced carburetors during the 1980s and 1990s A variety of injection systems have existed since the earliest usage of the internal combustion engine The primary difference between carburetors and fuel injection is that fuel injection atomizes the fuel by forcibly pumping it through a small nozzle under high pressure while a carburetor relies on suction created by intake air accelerated through a Venturi tube to draw the fuel into the airstream Modern fuel injection systems are designed specifically for the type of fuel being used Some systems are designed for multiple grades of fuel using sensors to adapt the tuning for the fuel currently used Most fuel injection systems are for gasoline or diesel applications The functional objectives for fuel injection systems can vary All share the central task of supplying fuel to the combustion process but it is a design decision how a particular system is optimized There are several competing objectives such as The modern digital electronic fuel injection system is more capable at optimizing these competing objectives consistently than earlier fuel delivery systems such as Bosch Fuel Injection Systems Forbes Aird,2001 This complete manual includes basic operating principles of Bosch s intermittent fuel injection systems D L and LH Jetronic and LH Motronic tuning and troubleshooting intermittent systems and high performance applications Diesel Engine Management Konrad Reif,2014-08-31 **Throttle Body Fuel Injection (TBI) - an Integrated Engine Control System** ,1980 Fuel Injection and Controls for Internal Combustion Engines Paul G. Burman, Frank DeLuca,1962 *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 **Performance Fuel Injection Systems HP1557** Matt Cramer, Jerry Hoffmann,2010-08-03 A practical guide to modifying and tuning modern electronic fuel injection EFI systems including engine control units ECUs The book starts out with plenty of foundational topics on wiring fuel systems sensors different types of ignition systems and other topics to help ensure the reader understands how EFI Systems work Next the book builds on that foundation helping the reader to understand the different options available Re tuning factory ECUs add on piggyback computers or all out standalone engine

management systems Next Matt and Jerry help the reader to understand how to configure a Standalone EMS get the engine started prep for tuning and tune the engine for maximum power and drivability Also covered is advice on tuning other functions acceleration enrichments closed loop fuel correction and more Finally the book ends with a number of case studies highlighting different vehicles and the EMS solutions that were chosen for each helping to bring it all together with a heavy emphasis on how you can practically approach your projects and make them successful

Fundamentals of Fuel Injection and Emission in Two-Stroke Engines Wadysaw Mitianiec, 2018 The main goal of the book is the presentation of the last theoretical and experimental works concerning fuel injection systems mainly in small power two stroke engines as well as in marine engines This book includes thirteen chapters devoted to the processes of fuel injection and the combustion that takes place in a stratified charge within the cylinders of two stroke engines In the first two chapters the division into different injection systems in two stroke engines and each injection system is briefly described Various theoretical and practical solutions of fueling system designs are described In Chapter Three mathematical models the spatial movement of gas in the cylinder and the combustion chamber are introduced taking into account the turbulence of the charge Chapter Four relates to the behavior of fuel injected into the gaseous medium including evaporation processes disintegration and processes occurring while the fuel drops connect with the wall The next section describes the zero dimensional model of fuel injection in two stroke engines along with examples of numerical calculations The sixth chapter is devoted to CFD multi dimensional models of movement and evaporation of the fuel in a closed gaseous medium occurring also in other engine types Chapter Seven describes a two zone model of the combustion process and the effect of the geometry of the combustion chamber on the flame propagation with a simplified verification model of combustion Chapter Eight compares the propagation phase of gas and liquid fuels concerning direct fuel injection as well as the direct fuel injection from the cylinder head and the thermodynamic parameters of the charge The formation of the components during the combustion process in the direct fuel injection two stroke engine was obtained by numerical calculations and results are discussed in Chapter Nine Chapter Ten describes the parameters of the two stroke engine with a direct fuel injection carried out at the Cracow University of Technology Additionally the chapter presents CFD simulations of fuel propagation and combustion processes taking into account the formation of toxic components and exhaust gas emission The processes of two direct rich mixture injection systems FAST and RMIS developed in CUT are presented in Chapter Eleven Miscellaneous problems of direct fuel injection such as characteristics of fuel injectors problems of direct gaseous fuel injection and the application of fuelling systems in outboard engines and snowmobile vehicles are presented in Chapter Twelve A comparison of working parameters in two and four stroke engines is also mapped out The last chapters contain the final conclusions and remarks concerning fuel injection and emission of exhaust gases in small two stroke engines This book is a comprehensive monograph on fuel injection The author presents a series of theoretical and design information from his own experience and on the basis of the works of other

authors The main text intends to direct fuel injection with respect to gas motion in the combustion chamber and influence the injection parameters for exhaust emission The book presents its own theoretical work and experimental tests concerning a two stroke gasoline engine with electrically controlled direct fuel injection The book describes the processes of a general nature also occurring in other types of engines and presents a comparison of different injection systems on working parameters and gas emission The book contains 294 images 290 equations and 16 tables obtained from the CFD simulation and experimental works

Fuel Injection System Troubleshooting for Mechanics Pasquale De Marco, 2025-05-11 Fuel Injection System Troubleshooting for Mechanics is the definitive guide to troubleshooting fuel injection systems for mechanics Written by a certified master mechanic with over 20 years of experience this book covers everything you need to know about fuel injection from the basics to the most advanced topics With over 500 pages of detailed information and illustrations Fuel Injection System Troubleshooting for Mechanics is the perfect resource for anyone who wants to learn more about fuel injection systems Whether you are a professional mechanic or a do it yourselfer this book will help you troubleshoot and repair any fuel injection system problem In Fuel Injection System Troubleshooting for Mechanics you will learn The basics of fuel injection including what it is how it works and the different types of fuel injection systems The specific components of fuel injection systems including fuel injectors fuel rails fuel pressure regulators fuel pumps fuel filters oxygen sensors mass air flow sensors throttle position sensors and electronic control modules How to troubleshoot fuel injection systems How to replace or repair fuel injection system components How to upgrade your fuel injection system to improve performance and efficiency With its comprehensive coverage and detailed illustrations Fuel Injection System Troubleshooting for Mechanics is the perfect resource for anyone who wants to learn more about fuel injection systems Order your copy today If you like this book write a review on google books

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