



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

Matt Cramer, Jerry Hoffmann

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the authors' names.

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Automotive Engineering ,1995-07 **Investors' Digest** ,1996 *Common Rail Fuel Injection Technology in Diesel Engines* Guangyao Ouyang, Shijie An, Zhenming Liu, Yuxue Li, 2019-04-08 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 *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 **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

Computerized Fuel Injection - Engine Control Jeffrey Lynch,1991-01-01 [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

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 [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 **Diesel Engine Management** Konrad Reif,2014-08-31 **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 **Engine Management Systems** Autodata Limited,2002 *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 **Automotive Fuel and Emissions Control Systems** James D. Halderman, James Linder,2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Automotive Fuel and Emission Control Systems Third Edition is designed specifically to correlate with the NATEF program This comprehensive up to date text covers all aspects of automotive fuel and emissions It emphasizes diagnosis and troubleshooting and features tech tips and diagnostic stories throughout This title meets the needs for a textbook that combines topics in engine performance ASE A8 content area and topics covered in the advanced engine performance L1 ASE test content area By combining these two complementary subjects into one comprehensive textbook it is easier for the instructor to teach these topics and is cost effective for the student **Fuel Injection Control for an IC Engine** Shang You Duan,1990 European Applications of Ford Central Fuel Injection Engine Control System John A. Sullivan, Society of Automotive Engineers,1984 *How to Tune and Modify Bosch Fuel Injection* Ben Watson,1992 **Bosch Fuel Injection & Engine Management** Charles O. Probst,1989

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