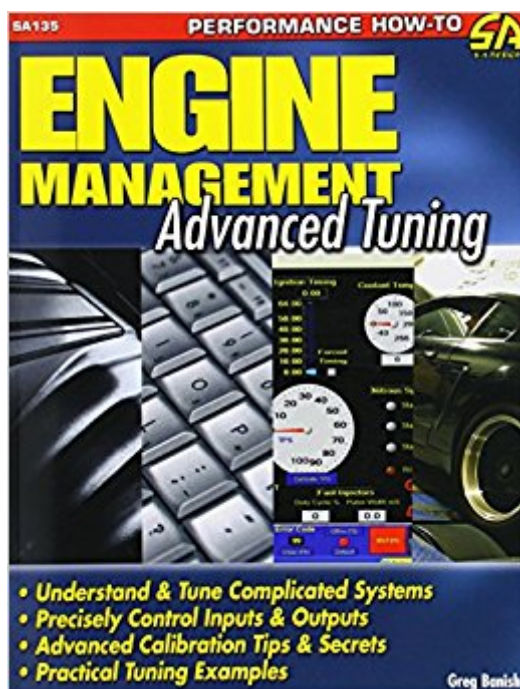


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# Engine Management: Advanced Tuning



## Synopsis

As tools for tuning modern engines have become more powerful and sophisticated in recent years, the need for in-depth knowledge of engine management systems and tuning techniques has grown. Tuning engines can be a mysterious art, all engines need a precise balance of fuel, air, and timing in order to reach their true performance potential. This book explains how the EFI system determines engine operation and how the calibrator can change the controlling parameters to optimize actual engine performance. *Engine Management: Advanced Tuning* takes engine-tuning techniques to the next level. It is a must-have for tuners and calibrators and a valuable resource for anyone who wants to make horsepower with a fuel-injected, electronically controlled engine. Author Greg Banish is a calibration engineer with extensive aftermarket performance calibration experience. He has a BSME from GMI Engineering and Management Institute (Kettering University). With over a thousand unique calibrations performed over five years, he has worked with enthusiasts and OEMs alike to improve the performance and driving behavior of a wide range of vehicles. The book contains detailed equations, graphs, and illustrations. Also included are valuable and practical examples, including real-world examples based upon the author's experience that will help more advanced readers apply this new information to situations that are commonly seen during calibration.

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## Customer Reviews

"In *Engine Management: Advanced Tuning*, author and calibration engineer Greg Banish provides

the reader with the insight required to understand and tune modern EFI systems." (Terry McGean Hemmings Muscle Machines 2007-04-01)"If you are willing to spend the time learning the technology this will be a great book for your library." (Bob McJannett Performance in Motion 2007-08-01)"It will help you make sense of the 'brain(s)' your car has, and how to get it to 'think' better in terms of better performance and/or more efficient operation." (Scott Ross Corvette Fever 2008-08-01)"I would recommend this book to anyone who is serious about building or modifying a car the right way." (Ryan King Classics & Performance Automotive Online 2008-09-01)

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I am looking into installing a stand-alone engine management (megasquirt) in my vehicle and decided I needed a more "put together" source of information regarding how an engine operates and how to best tune for all running conditions. I really liked how this book is organized and illustrated. Broken up into logical chapters that are easily understood. After reading the book cover-to-cover I can say that I have learned all I need to get started with my adventures in engine tuning. While this book is not going to give you any hand outs, it will teach you the basics and their effects on an engine.

This is one of the best automotive performance books I've read. Very thorough. He goes deep into the physics and science of engine operation and controls, and explains it so you don't need a degree in mechanical or electrical engineering to understand it. That's different than many similar books which are light on explaining the basics, and too heavy on sample aftermarket packages.

This is the best book (so far!) that I've read on the explanations of how the modern engines are controlled by their on-board "computer," the ECU. Explains what "Maps" are and how they affect EVERYTHING in your car engine!

Greg Banish is brilliant, and his writing is easy enough for the average person to read and understand. I recommend this book to learn how everything "ties together" so to speak.

This is a very good intro to engine management tuning. Do not be turned off by the "advanced" in the title, this can serve as a very good intro to the topic. By the end of it you'll understand the steps necessary to tune electronic fuel injection. It does a very good of explaining why each step is important as well as the order of operations. If you're a Ford or GM guy, there are two appendices with examples at the end.

Perhaps the title should be changed to "Introduction to Engine Management". The book does a great job with covering the basics of EFI tuning. If you are unfamiliar with EFI tuning and need an intro, this book is for you. I've read through it a few times to fully comprehend the subject. You need to understand and think about what your doing. In that regard I give this book a thumbs up. It will not teach you to tune. That will only come with experience and by trail and error. The examples in the last couple of chapters barely scratch the surface.

Great book. Wish it had went more IN depth about the actual tuning of the vehicle though. Great for telling you about what the computer is actually looking at though.

Great product and service

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