



Competition Engine Building: Advanced Engine Design and Assembly Techniques (NONE)

By John Baechtel

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This book focuses on the needs of high rpm, high durability, high-powered racing engines. It begins by looking at the raw design needs, then shares how these needs are met at various phases of development, assembly, testing and tuning. It also serves as a reference for professionals anxious to learn the latest techniques or see how new tools are used.

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Editorial Review

Review

"This is the first time in a long time that I can remember being really impressed at the new information and excellent job that John did presenting the information for his readers. The pictures will show you where to hit and the text explains to you why. Nice deal. S-A Design Pro Series (PS) is laid out differently because it only states the facts, no tip toeing around. Also there is no review provided at the end of each chapter like the S-A Design "Workbench Series" (WBS). This is why it is called PS as it is written for the next level of race engine building. Whether you worked your way through the (WBS) or have the knowledge from years of building race engines, you will love this book." (Mike Caruso *engine professional* 2012-10-24)

There's building a functional engine, and then there's pushing oneself to be the best. *Competition Engine Building: Advanced Engine Design and Assembly Techniques* is a guide to competitive engine construction from John Baechtel, who advises readers on the highest end cutting edge techniques needed to make engines that will perform far and above the call of duty. With full color photography all throughout, for any auto junkie who wants to rise to the competitive level *Competition Engine Building* is a strong pick for any hobbyist auto enthusiast collection." (James Cox *The Midwest Book Review* 2012-09-20)

"A student who is interested in building racing engines will find that *Competition Engine Building-Advanced Engine Design Techniques* is a good place to learn more than a thing or two when it comes to acquiring the extensive knowledge that is necessary to begin such a project or to enter into that field. While someone who is already involved in engine building will find that the book endorses the standard practices and "secrets" that have been developed over the years by some of the best engine builders in the world." (Herb Anastor *Area Auto Racing News* 2012-11-13)

From the Back Cover

The needs of a true competition engine are quite different than those of the engine under the hood of a typical commuter car. From the basic design, to component materials, to size of flow-related hardware, to machining precision, to capabilities of each pertinent system, very few similarities exist. Each major component of a modern racing engine possesses specific traits and engineering to excel in its task. The higher power levels and RPM ranges competition engines typically require present some very specific challenges to the engine builder. This book details the entire engine, system by system, and reviews the critical design elements and formulas used to develop them. Veteran author John Baechtel reviews many popular modern tools, techniques, products, and testing/data-collecting machinery used in designing and developing competition engines. The proper way to use those tools is shown, along with how to accurately collect data, and how to use the data effectively when designing an engine. The special needs of a true racing engine aren't commonly discussed, and many of the secrets successful racing engine builders hold closely are openly shared on these pages. If you are considering the buildup of an engine for competition use, or if you'd like to learn what it takes to design and build such an engine, this book should be an essential part of your plan before you purchase a single component.

About the Author

John Baechtel is a former editor of Car Craft and Hot Rod magazines and was the founding partner of the Westech Performance Group engine dyno testing facility. He is also a member of the Bonneville 200 MPH club, holding both SCTA and FIA International speed records. He drove the first production-based Mustang Cobra past the 200-mph mark in 1993 and was the driving force behind the restoration of the Summers

Brothers Land Speed Record car for The Henry Ford museum. With more than 34 years of high-performance engine and vehicle testing under his belt, he is still passionate about engines and high-performance technology. He currently serves as a technical consultant to several performance aftermarket companies while pursuing his interest in land speed racing and grooming his extensive collection of land speed model cars and memorabilia.

Users Review

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