



# Modern Engine Blueprinting Techniques: A Practical Guide to Precision Engine Building (Pro)

By Mike Mavrigian

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## Modern Engine Blueprinting Techniques: A Practical Guide to Precision Engine Building (Pro) By Mike Mavrigian

Engines are built to fall within a wide set of standards and specifications, often not optimized to meet the original design. In short, cheap and fast engine production results in a sloppy final product. Of course, this is not ideal for high-performance engines. To maximize the performance of any engine, it must be balanced and blueprinted to the exact tolerances that the factory should have adhered to in the first place. Four cylinder, V-8, American or import, the performance of all engines is greatly improved by balancing and blueprinting. Dedicated enthusiasts and professional racers balance and blueprint their engines because the engines will produce more horsepower and torque, more efficiently use fuel, run cooler and last longer.

In this book, expert engine builder and veteran author Mike Mavrigian explains and illustrates the most discriminating engine building techniques, so the engine is perfectly balanced, matched, and optimized. Balancing and blueprinting is a time consuming and exacting process, but the investment in time pays off with superior performance. Through the process, you carefully measure, adjust, machine and fit each part together with precision tolerances, optimizing the design and maximizing performance. The book covers the block, crankshaft, connecting rods, pistons, cylinder heads, intake manifolds, camshaft, measuring tools and final assembly techniques.

For more than 50 years, balancing and blueprinting has been an accepted and common practice for maximizing performance. An enthusiast or professional that invests the time to precisely build an engine in this fashion will be rewarded with an engine that will run strong and last for years. This book provides an unprecedented level of detail and instruction on the process of balancing and blueprinting your engine.

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### **Editorial Review**

#### Review

"Don't pass this book up!" -engine professional, Jan-March 2014 (*engine professional* 2014-08-28)

#### From the Inside Flap

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#### From the Back Cover

To maximize the performance of an automotive engine, it must be balanced and blueprinted. OEM engine parts are built to certain established standards and these parts make up engines that have acceptable tolerances. Although these parts and the assembled engines are within specifications, the castings, surfaces, and parts are not necessarily true, flat, or balanced. Any engine's performance greatly improves through balancing and blueprinting because friction is reduced and efficiency is maximized. The blueprinting process optimizes each part and component group in an engine, and balancing achieves the ideal weight for parts. Dedicated enthusiasts and professional racers balance and blueprint their engines because they produce more horsepower and torque, use fuel more efficiently, and run cooler therefore lasting longer. Mike Mavrigian, expert engine builder and veteran author, explains and illustrates all the crucial procedures for blueprinting and balancing any engine. He uses the most precise techniques according to discriminating standards, so the engine components are ideally trued, balanced, matched, and optimized. Through the process, you carefully measure, adjust, and machine each part so your engine operates as a finely honed and integrated system. He covers the block, crankshaft, connecting rods, pistons, rings, cylinder heads, intake manifolds, camshaft, and more. You need to assemble the best possible engine package, and to do that, you need this book.

### **Users Review**

#### **From reader reviews:**

**Jocelyn Welch:**

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