

# How to Supercharge & Turbocharge GM Ls-Series Engines

Barry Kluczyk



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The photos in this edition are black and white.

GM LS Series engines are some of the most powerful, versatile, and popular V-8 engines ever produced. GM LS series engines deliver exceptional torque and abundant horsepower, they are in ample supply, and a massive range of aftermarket parts are available. Some of the LS engines produce about one horsepower per cubic engine in stock form-that's serious performance. One of most common ways to produce even more horsepower is through forced air induction-supercharging or turbocharging. Right-sized superchargers and turbochargers and relatively easy tuning have grown to make supercharging or turbocharging an LS-powered vehicle a comparatively simple yet highly effective method of generating a dramatic increase in power.

In *How to Supercharge and Turbocharge GM LS Series Engines*, supercharger and turbocharger design and operation are covered in detail, so the reader has a solid understanding of each system and can select the best system for their particular budget, engine, and application. The attributes of Roots-type and centrifugal-type superchargers as well as turbochargers are extensively discussed to establish a solid base of knowledge. Benefits and drawbacks of each system as well as the impact of systems on the vehicle are explained. Also covered in detail are the installation challenges, necessary tools, and the time required to do the job. Once the system has been installed, the book covers tuning, maintenance, and how to avoid detonation so the engine stays healthy. Cathedral, square and D-shaped port design heads are covered in terms of performance, as well as strength and reliability of the rotating assembly, block and other components. Finally, Kluczyk explains how to adjust electronic management system to accommodate a supercharger or turbocharger.

*How to Supercharge and Turbocharge GM LS Series Engines* is the only book on the market specifically dedicated to forced air induction for LS series engines. It provides exceptional guidance on the wide range of systems and kits available for arguably the most popular modern V-8 on the market today.

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