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a compilation of 50 performance articles from the editors of super chevy chevy high performance and gm high tech performance magazines on how to build maximum power and performance on the chevy ls family of small block engines

p p1 margin 0 0px 0 0px 0 0px 0 0px font 12 0px arial the gm ls gen iv engine dominates the high performance v 8 market and is the most popular powerplant for engine swap projects in stock trim the gen iv engines produce class leading horsepower the gen iv s rectangular port heads flow far more air fuel than the gen iii cathedral port heads however with the right combination of modification procedures and performance parts you can unlock the performance potential of the gen iv engines and reach almost any performance target engine building and ls expert mike mavrigian guides readers through the best products and

modification procedures to achieve maximum performance for a variety of applications to make more horsepower you need to flow more air and fuel into the engine therefore how to select the industry leading aftermarket heads and port the stock heads for superior performance are comprehensively covered the cam controls all major timing events in the engine so determining the best cam for your engine package and performance goals is revealed but these are just a few aspects of high performance gen iv engine building installing nitrous oxide or supercharger systems and bolting on cold air intakes aftermarket ignition controls headers and exhaust system parts are all covered in detail the foundation of any engine build is the block and crucial guidance for modifying stock blocks and aftermarket block upgrade advice is provided crankshafts pistons and rods valvetrain oiling systems intakes and fuel injection cooling systems are all covered so you can build a complete high performance package muscle car owners ls engine builders and many enthusiasts have migrated to the gen iv engine platform so clear concise and informative content for transforming these stock engines into top performers for a variety of applications is essential a massive amount of aftermarket parts is available and this provides guidance and instructions for extracting top performance from these engines if you re searching for an authoritative source for the best components and modifications to create the ultimate high performance packages then you ve found it

gm ls series engines are some of the most powerful versatile and popular v 8 engines ever produced they deliver exceptional torque and abundant horsepower are in ample supply and have a massive range of aftermarket parts available some of the ls engines produce about 1 horsepower per cubic inch in stock form that s serious performance one of the 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 the revised edition of how to supercharge 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 his or her 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 explained in terms of performance as well as strength and reliability of the rotating assembly block and other components finally kluczyk explains how to adjust the 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

mix and match parts for your ls engine to maximize power on a budget with its debut in 1997 the general motors ls series engine arguably became the most popular v 8 engine in the world it was first offered in corvettes and then migrated to the entire general motors lineup where v 8s were offered and millions have been manufactured these engines are compact powerful and abundantly available through salvage yards and crate engine programs due to being manufactured for more than 20 years many versions of the ls engine platform exist including more than 30 variants many parts are interchangeable but some are not in ls engine parts interchange 1997 2020 veteran ls engine authors joseph potak and jefferson bryant present a wealth of knowledge regarding which parts work well together and which parts do not parts that are covered include engine blocks rotating assemblies cylinder heads camshafts and the valvetrain oiling systems intake manifolds electronic engine controls and more which cam works best for your application perhaps you are interested in building a stroker with factory parts can you retrofit the free flowing gen iv heads onto a gen iii block this book covers each of these topics if you would like to extract more horsepower using all factory parts if you want to plan for a swap or if you simply want to know more about the entire ls engine family this book is a vital resource

gm ls series engines the complete swap guide 2nd edition is the updated ultimate guide to installing general motors ls v 8 in your muscle car hot rod racer or just about any project car

the small block chevy may still be the most popular high performance engine of all time but gm s next generation ls series engines are quickly taking over starting in 1997 gm performance cars and trucks have featured ls1 ls2 ls6 ls7 and other ls series gen iii engines this book contains more than 150 dyno tests and 350 photos to show you what parts and modifications will give you the results you want from your ls series engine

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