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Transmission Swap

Manual Transmission Swap

*The Jeep Cherokee XJ is a
pioneering SUV that delivers*

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commendable performance and off-road capability. More than 3 million Cherokee XJs were manufactured during its production run. However, when the XJs rolled off the production lines, they were built primarily

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for the street. As a result, XJs need crucial modifications and high-performance upgrades to make them better for off-road duty. In this updated edition, author and veteran Cherokee expert Eric Zappe guides you

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through each stage of an XJ build, so you can take the mild-mannered, bone-stock XJ and upgrade it to a capable off-road performer. Zappe delves into suspension bolt-on improvements, including lift

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kits to increase ground clearance and suspension travel. He also covers high-performance shocks and long-arm suspensions. Wheels and tires are your vital link to the terrain, and he reveals all the

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important considerations so you select the right combination. XJs need a heavy-duty steering system to negotiate challenging off-road conditions, and Zappe explains several ways to upgrade the

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steering. Driveline and axle upgrades are an important part of the performance equation, so these performance improvements are covered as well. But he doesn't stop there; he also explores engine

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performance improvements for the 2.5-, 2.8-, 4.0-liter engines so the Cherokee has more power for off-road performance. In addition, he covers some basic tips for body strengthening and adding skid

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plates. If you're ready to go off road with your Cherokee but you're not planning to build a top-dollar off-road machine, this is the book for you. With the techniques and latest products described in this

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book, you will be able to upgrade your XJ to much higher level of performance and your XJ will be at home off and on road.

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Arial} There was a time when the Chevrolet Nova was considered a budget option, a model engineered primarily for the price-conscious customer. Certainly performance models were already in Chevrolet's

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fold. With the Camaro, the Corvette, and the Chevelle leading the way, why would Chevy need another performance model? Well, savvy Chevy customers knew that you could get a really

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tricked-out Nova right from the factory with SS packages and big-block 396 engines along with performance transmissions and gearing for a fair amount less than an equally equipped Camaro. As a

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bonus, Novas were lighter weight too. It was the performance bargain of the Chevy lineup. Fast forward to today. The first-generation Camaros cost a small fortune, and while Novas have held

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their value quite well, they are still a performance bargain compared to the other Chevy performance models of the era. Not only are they more affordable than Camaros, but you can do a whole lot to make

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them really fast. In Chevy Nova 1968-1974: How to Build and Modify, veteran author and Chevy expert Wayne Scraba shows you all you need to know to build a killer street or strip Nova. Included is detailed

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information on driveline upgrades, rear-suspension options for the ultimate hook, front-end suspension and chassis components for good handling and weight transfer, excellent brake upgrades,

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engine swap options, cooling system upgrades, and more. Focusing on quarter-mile performance, Scraha expertly covers all of your options for a strong-running street Nova, a street-strip combo package, or

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all-out drag racing options. If you want to build your Nova into a quarter-mile warrior, this book is an essential tool for success.

When it comes to their personal transportation,

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today's youth have shunned the large, heavy performance cars of their parents' generation and instead embraced what has become known as the "sport compact"--smaller, lightweight,

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modern sports cars of predominantly Japanese manufacture. These cars respond well to performance modifications due to their light weight and technology-laden, high-revving engines. And by

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far, the most sought-after and modified cars are the Hondas and Acuras of the mid-'80s to the present. An extremely popular method of improving vehicle performance is a process known as engine

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swapping. Engine swapping consists of removing a more powerful engine from a better-equipped or more modern vehicle and installing it into your own. It is one of the most efficient and affordable

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methods of improving your vehicle's performance. This book covers in detail all the most popular performance swaps for Honda Civic, Accord, and Prelude as well as the Acura Integra. It includes vital

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information on electrics, fit, and drivetrain compatibility, design considerations, step-by-step instruction, and costs.

This book is must-have for the Honda enthusiast.

This clear, concise text leads

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you through every step of the rebuild of your Turbo Hydramatic transmission, from removal, teardown, and inspection to assembly and installation. This book also covers transmission

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identification, principles of operation and maintenance, troubleshooting, and in-car repairs. It includes heavy-duty and high-performance modifications: coolers, high-stall converters, shift-

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programming kits, internal beef-ups, and more. More than 750 photos, drawings, and charts combine with text give you the most authoritative book of its kind.

BMW 3-Series (E30)

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*Performance Guide
How to Build and Modify GM
Pro-Touring Street Machines
Corvette, 1968-1982 : Parts
Interchange Manual
Performance Upgrades
Performance Upgrades, Tips,*

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and Techniques for Chevelle/El Camino

Chevelle/El Camino Handbook

Covers all aspects of modifying the MG Midget and Austin Healey Sprite for high performance. Includes

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engine/driveline, suspension, brakes, and much more. with 400 mainly colour photos and exclusive tuning advice, this is a MUST for any Sprite or Midget owner.

How to Build Ford Restomod

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Street Machines shows you how to modify your vintage Ford to accelerate, stop, corner, and ride as good as - if not better than - Detroit's best new high-performance cars. Don't subject your classic Ford

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to a life of garage time, trailer rides, outdated factory-original performance, and the occasional Sunday cruise - build it to run hard. Author Tony Huntimer uses over 300 photos to show you how to

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upgrade your engine, drivetrain, chassis, suspension, body, and interior to make your ride a stand-out performer using factory and aftermarket parts. He even covers many Ford-specific upgrades,

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including the Granada brake swap and the popular Shelby Mod.

The hottest trend in hot rodding is Pro/Touring--upgrading classic muscle cars with modern

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performance, handling, safety and comfort. This subject gets extensive coverage in magazines such as Hot Rod, Car Craft, Chevy High Performance, and other enthusiast publications. This

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book shows readers how to upgrade their classic Chevy, Pontiac, Buick, and Oldsmobile muscle cars in all areas--late-model fuel-injected engines, better brakes and suspension, hot interiors, and bodywork.

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Includes several "minifeatures" of well-known Pro/Touring cars for readers to use as examples. Now readers can turn their Chevelle or El Camino into the ultimate street machine. Here is a compilation of tech articles

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from Chevy High Performance, the most popular magazine among Chevy enthusiasts. Includes articles on engine performance, tires, wheels, suspension, bodywork, exhaust, and interior

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modifications. It's the the latest collaboration of the authors of Hot Rod, Car Craft, Chevy High Performance, among others.

Complete with over 300 photos and illustrations.

Automotive Engines: Diagnosis,

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Repair, and Rebuilding
Ground-Up or Sectional
Restoration Tips & Techniques
for 1967 to 1981 Camaros
Jeep Wrangler JK 2007 -
Present
Chevy Nova 1968-1974

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How to Build Performance
Nissan Sport Compacts,
1991-2006 HP1541
1984-2001 - Revised Edition
**In GM LS-Series Engines: The
Complete Swap Manual, expert
Joseph Potak walks you**

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through all the steps involved in installing an LS engine into any vehicle, from concept to completion. Variants of GM's groundbreaking family of LS engines are installed in everything from the

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company's most mundane panel vans to its earth-shaking Corvette ZR1. First underhood in the 1997 Corvette, the LS1, and its successors have proven powerful, reliable, and amazingly fuel efficient. Since

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that time, more than a dozen variants have been produced, ranging from bulletproof, iron-block 4.8-liter workhorses to the supercharged 7.0-liter LS7. Performance enthusiasts have embraced this remarkable V-8,

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and it has quickly become a favorite for engine swaps. Why? Because the versatile engine offers fantastic power, a compact design, and light weight, and it responds very well to performance

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modifications. The key to this performance is a sophisticated electronics package that can intimidate even the most adventurous hot rodder. In GM LS-Series Engines: The Complete Swap Manual,

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professional LS-series engine specialist and technician Joseph Potak details all the considerations involved in performing this swap into any vehicle. With clear instructions, color photos,

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diagrams, and specification tables, Potak guides you through: Mounting your new engine Configuring the EFI system Designing fuel and exhaust systems Sourcing the correct accessories for your

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**application Transmission,
torque converters, and
clutches Performance
upgrades and power-adders
Troubleshooting, should
problems arise This is the
ultimate guide to installing an**

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**LS in your project car.
This ultimate guide to
installing the LSX in your GM
muscle car details all the
necessary steps from concept
to completion, including
fabrication and installation of**

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motor mounts, wiring, fuel system, and driveline considerations.

This is a detailed guide on how to install GM's popular LS small-block engines into just about any other vehicle, the

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most popular conversion in the aftermarket today. Includes an overview of the Chevy LS series engine, technical details on swapping transmissions, drivetrain, fuel system, wiring and ECU, exhaust and

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installation.

Several million Camaros and Firebirds were built from 1970-1981. Many are perfect candidates for a full pro-touring treatment. This book is an essential tool for the

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second-gen enthusiast looking to modify their car to perform at its best.

Classic Looks with Modern Performance!

How To Rebuild and Modify Your Manual Transmission

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**Hundreds of Technical Tips on
Engine, Chassis, Suspension,
Drivetrain, Bodywork,
Electrical and Interior for Any
Street Rod Project
Engine and Suspension
Modifications for Nissan**

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**Sentra, NX, 200SX, and
InfinitiG20. Covers Engines
GA16DE, SR20DE, QG18DE,
and QR25DE**

**How to Use and Upgrade to GM
Gen III LS-Series Powertrain
Control Systems**

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1982-1994

Identifying the Jeep CJ series vehicles as the most popular off-road vehicles of all time may actually qualify as an understatement. They really are that popular. The CJ series

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arguably started after World War II with the CJ-2A being introduced to the masses, and while the early CJs have their share of enthusiasts, the largest group of enthusiasts began their love affair with the AMC-powered Jeep CJ-5s beginning in

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1972. Joined by the longer-wheelbase CJ-7 models introduced in 1976, the CJ models were wildly popular through their discontinuation in 1986, when the Wrangler was introduced. These were the only models originally

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equipped with V-8 engines in any meaningful way. This era combined the ruggedness of the early Jeeps with some of the advancements and horsepower of a more modern era; it makes a platform that is both fun to own and to modify. Jeep guru

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Michael Hanssen covers all of the systems that can be upgraded to improve your Jeep's performance. Upgrades include suspension components such as springs, shocks, and steering modifications; driveline components including

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differentials, transmissions, transfer cases, and axles; engine upgrades including engine swaps; wheel and tire upgrades; aftermarket accessories; and armor such as skid plates, bumpers, brake upgrades, and more. Whether you

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are looking to get into serious off-roading or just want to make your classic CJ a little more fun, this book will be a valuable tool in your shop or library. p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Arial}

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The model that truly launched BMW into the performance arena in the United States were the second generation of 3-series cars. Today, the E30 family of BMWs are both readily affordable, and are popular with enthusiasts wanting to

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personalize them.

Drawing on a wealth of knowledge and experience and a background of more than 1,000 magazine articles on the subject, engine control expert Jeff Hartman explains everything from the basics

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of engine management to the building of complicated project cars. Hartman has substantially updated the material from his 1993 MBI book Fuel Injection (0-879387-43-2) to address the incredible developments in automotive fuel

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injection technology from the past decade, including the multitude of import cars that are the subject of so much hot rodding today.

Hartman's text is extremely detailed and logically arranged to help readers better understand this

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complex topic.

The Ford modular engine is a popular swap for 1964-1/2-1973 Mustangs, Fox-Body Mustangs, trucks, hot rods, and other muscle cars because these high-tech engines provide exceptional

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performance and improved economy compared to their dated counterparts. Found in Mustangs and other Fords since the 1990s, installing a modular motor in a classic Ford infuses new technology and all the benefits that

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come with it into a classic car. Modular engines feature an overhead cam design that has massive horsepower potential, and are offered in 4.6-, 5.0-, 5.2- 5.4-, and 5.8-liter iterations. These high-tech 2-, 3-, and 4-valve engines are

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readily available as a crate engine, from salvage yards, and in running cars. This engine design has a large physical footprint, and swapping the engine requires a thorough plan, using the proper tools and facilities. Author Dave

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Stribling specializes in modular engine swaps, and expertly guides you through each crucial step of the engine transplant process. Because of the large physical size, many components, such as brake boosters, steering rods and boxes,

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and other underhood components, may need repositioning or modification to co-exist in the engine bay. Stripling covers motor-mount selection and fabrication, suspension and chassis modifications, aftermarket

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suspension options, firewall and transmission tunnel modifications, engine management and wiring procedures, fuel systems, exhaust systems, electrical mods and upgrades, and much more. Many older Ford muscle and performance

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cars are prime candidates for a modular swap; however, shock towers protrude into the engine bay of these cars, so modifications are necessary to fit the engine into the car, which is also covered here. Swapping the engine and

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transmission into a muscle car or truck requires specialized processes, and this insightful, explanatory, and detailed instruction is found only in this book. If you are considering swapping one of these high-tech

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engines into a non-original chassis,
this book is a vital component to the
process. p.p1 {margin: 0.0px 0.0px
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How to Build and Modify
How to Build & Modify
Engine and Suspension

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Modifications for Nissan Sentra,
NX, 200SX, and Infiniti G20.

Covers engines GA16DE, SR20DE,
QG18DE, and QR25DE.

GM LS-Series Engines

Jeep Wrangler YJ 1987-1995

The Camaro Performance

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Vehicle maintenance.
With more than 10
million Chevy S-10 and
GMC S-15 trucks
produced, this fully-
illustrated guide gives
everything the light

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truck owner needs for
modifying, including
upgrades and accessories
for everyday use.

The General Motors G-
Body is one of the
manufacturer's most

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popular chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass

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Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and

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modifications for a wide range of high-performance applications, from drag racing to road racing.

Many of the vehicles GM produced using this

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chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive

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performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate

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all the best-possible equipment is thoroughly covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs

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most popular modern engine-the LS-Series V-8-are all covered in great detail. The aftermarket support for this chassis is huge, and the

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interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can

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afford and readily modify. There is also great information for use when shopping for a G-Body, including what areas to be aware of or check for possible

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corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and

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this book will serve as the bible to G-Body enthusiasts for years to come.

This is a comprehensive guide to modifying the 1991 - 2006 Nissan

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Sentra, NX, and 200sx
and Infiniti G20 for
street and racing
performance. It includes
sections on models and
engines, engine theory,
bolt-on performance

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components, cylinder heads and bottom end modifications, forced induction, engine swaps, brakes, suspension, wheels and tires, cosmetic and

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aerodynamics, and
safety.

How to Rebuild and
Modify Your Muscle Car
How to Hot Rod Small-
Block Mopar Engines
Chevy LS Engine

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Conversion Handbook
HP1566

High Performance
Modifications for Street
and Racing, Revised and
Updated Edition

How to Swap GM LT-Series

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Engines into Almost
Anything

How to Build Ford

Restomod Street Machines

**How to Hot Rod Small-Block
Mopar Engines is a completely
revised, updated edition of**

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Larry Shepard's classic, first published in 1989. Inside you'll find the latest, updated information to help modify your small-block A series Mopar for high performance, street, circle track, or drag

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racing. Also included are updated parts information and techniques for: - Block, cranks, pistons and rods - Cylinder heads - Camshafts and valvetrain - Blueprinting techniques - Step-by-step

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**engine assembly guide - Oil, cooling, ignition and induction systems - Engine swapping guide - Engine installation and break-in tips - Casting numbers and torque specs
New part numbers, photos,**

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parts combinations and illustrations highlight this classic handbook on how to build the ultimate small-block Mopar engine.

Introduced in 1997, the GM LS engine has become the

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dominant V-8 engine in GM vehicles and a top-selling high-performance crate engine. GM has released a wide range of Gen III and IV LS engines that deliver spectacular efficiency and performance. These

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compact, lightweight, cutting-edge pushrod V-8 engines have become affordable and readily obtainable from a variety of sources. In the process, the LS engine has become the most popular V-8

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engine to swap into many American and foreign muscle cars, sports cars, trucks, and passenger cars. To select the best engine for an LS engine swap, you need to carefully consider the application.

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Veteran author and LS engine swap master Jefferson Bryant reveals all the criteria to consider when choosing an LS engine for a swap project. You are guided through selecting or fabricating motor

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mounts for the project. Positioning the LS engine in the engine compartment and packaging its equipment is a crucial part of the swap process, which is comprehensively covered. As

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part of the installation, you need to choose a transmission crossmember that fits the engine and vehicle as well as selecting an oil pan that has the correct profile for the crossmember

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with adequate ground clearance. Often the brake booster, steering shaft, accessory pulleys, and the exhaust system present clearance challenges, so this book offers you the best

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options and solutions. In addition, adapting the computer-control system to the wiring harness and vehicle is a crucial aspect for completing the installation, which is thoroughly detailed.

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As an all-new edition of the original top-selling title, LS Swaps: How to Swap GM LS Engines into Almost Anything covers the right way to do a spectrum of swaps. So, pick up this guide, select your ride,

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and get started on your next exciting project.

This complete textbook provides detailed content on the theory of operation, diagnosis, repair, and rebuilding of automotive

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engines. In addition to essential technical expertise, the text helps users develop the skills and knowledge they need for professional success, including critical thinking and awareness of key

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industry trends and practices. The text emphasizes universal repair techniques and case histories based on real-world scenarios to prepare users for careers in the field. Instructor resources include lesson

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plans, customizable lab sheets that address NATEF Standards, a customizable test bank with questions based on chapter content, presentations in PowerPoint, and more. Now updated with

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new, full-color images and information on the latest trends, tools, and technology—including hybrid engines and high-performance components—AUTOMOTIVE

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**ENGINES: DIAGNOSIS,
REPAIR, REBUILDING,
Seventh Edition, is the ideal
resource for automotive
programs who want a
complete teaching package
for their Engines course.**

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the theory of operation, diagnosis, repair, and rebuilding of automotive engines. Students will gain essential technical expertise as they develop the skills and knowledge they need for

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**professional success,
including critical thinking and
awareness of key industry
trends and practices.**

**AUTOMOTIVE ENGINES:
DIAGNOSIS, REPAIR, AND
REBUILDING, Eighth Edition,**

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emphasizes universal repair techniques and case histories based on real-world scenarios to prepare users for careers in the field. Instructor resources include lesson plans, customizable lab sheets that

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address ASE Education Foundation Standards, a customizable test bank with questions based on chapter content, PowerPoint presentations, and more. Now updated with new, full-color

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images and information on the latest trends, tools, and technology--including hybrid engines and high-performance components--this trusted text is the ideal resource for

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**automotive program
instructors who want a
complete teaching package
for their Engines course.
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content referenced within the
product description or the**

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**product text may not be
available in the ebook version.**

**Automotive Engines
How to Troubleshoot,
Remove, Rebuild, and Install.
Details Parts Interchange,
Plus High-Performance and**

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**Heavy-Duty Modifications
Camaro & Firebird
Performance Projects: 1970-81
The Complete Swap Manual
Chevelle Performance
Projects, 1964-1972
How to Tune and Modify**

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Engine Management Systems

Provides excellent instruction and guidance for selecting the best engine for a budget, choosing the adapter plates and engine mounts, dropping the engine in the car, selecting the

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ideal transmission and drivelines, and completing all facets of the swap.

As cool as classic muscle cars might be, they're only as good as the automotive technology of their era.

That's where this book comes

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in. With clear, easy-to-follow instructions, this guide shows how to give your car all the muscle of today while preserving the classic styling of your muscle car. In this updated and fully illustrated edition of his

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popular handbook, veteran overhauler and automotive writer Jason Scott takes readers through the step-by-step improvements that will add more power, style, and handling capability to any classic muscle car. Full-

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color photos accompany
Scott's detailed
instructions, covering
bodywork and interior
restoration, engine
enhancements, transmission
and axle swaps, suspension,
steering, chassis and brake

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upgrades as well as many other changes that will restore-or maintain-a muscle cars identity while making it perform as if it were built only yesterday.

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The Jeep CJ, the icon that started it all, is the most popular off-road vehicle of all time. The look, style, and functionality of the CJ made it instantly popular and recognizable the world over,

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in no doubt partly due to its military presence in World War II. The Jeep Wrangler platform had the difficult task of replacing the extremely popular CJ platform. Outwardly similar in appearance, the YJ, TJ,

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and JK that followed all had significant design improvements, as can be expected when a platform has a life span of more than five decades. The YJ was the first Chrysler release after it purchased AMC in the

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mid-1980s, and it was aimed at taming the original CJ for more comfort and, arguably, a larger audience. The TJ that followed next was an evolutionary update, significant in that it featured a coil spring

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suspension and the celebrated return of round headlights, for a more traditional look compared to the square lights of the YJ. In *Jeep TJ 1997-2006: How to Build & Modify*, everything you need to know about how

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to modify your TJ for off-road use is covered.

Beginning with why you should choose a TJ for modification, Jeep expert Michael Hanssen takes you through all the different systems needing

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modification, including engine modifications and swaps, transmission swaps, transfer case and driveshafts modifications, axles and traction systems, suspensions and lifts, wheels, tires, brakes,

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chassis protection,
electrical, and winches.
Included in every chapter
are step-by-step
modification instructions to
help walk you through the
process. If you want to
build a TJ for serious off-

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road trail use, or you just want a capable and great-looking Jeep for around town, this book has you covered.

Many Chevelle owners want to enjoy all the benefits of modern technology as well as

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the pleasure of driving a classic muscle car. Chevelle Performance Projects: 1964-1972 will offer a full range of performance projects from mild to wild. Chevy S-10/GMC S-15 Handbook BMW 3-Series (E30)

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Performance Guide 1982-1994
How to Swap GM LS Engines
into Almost Anything
Turbo Hydra-Matic 350
Handbook
GM Automatic Overdrive
Transmission Builder's and
Swapper's Guide

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The MG Midget and Austin
Healey Sprite High
Performance Manual

The GM LS engine has
revolutionized the muscle car and
the high-performance V-8 market. It
has become a favorite engine to

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swap into classic cars because it offers a superior combination of horsepower, torque, and responsiveness in a compact package. As such, these modern pushrod V-8 engines are installed in vintage GM muscle cars with

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relative ease, and that includes Chevelles and other popular GM A-Body cars. In fact, General Motors manufactured about 500,000 Chevelles and A-Body cars between 1968 and 1970 alone. Jefferson Bryant, author of LS

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Swaps: How To Swap GM LS Engines into Almost Anything, has performed many LS swaps throughout his career, and has transplanted the LS into several A-Body cars. In this comprehensive guide, he provides detailed step-by-

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step instructions for installing an LS powerplant into a Chevelle, Buick GS, Oldsmobile Cutlass, and Pontiac GTO. To successfully install an LS engine, you need to select or fabricate motor mounts and adapter plates to mount the

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engine to the chassis. Also, you need to integrate the electronic engine controls and wiring harness to the A-Body car. If you run a fuel-injection system, a new tank or high-pressure fuel pump, fuel lines, and related equipment must be

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installed. Bryant covers all of these crucial steps and much more. He explains essential procedures, time saving techniques, and solutions to common problems. In addition, he performs a new LT swap into an A-Body car. Swapping an LS engine

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into an A-Body is made much easier with a comprehensive guidebook such as this, whether you plan on doing it yourself or decide to have a shop do it for you. A huge and thriving aftermarket provides a wide range of

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suspension, brake, steering, chassis, and other parts that produce functional improvements. Before you tackle your LS Swap project, arm yourself with this vital information to guide you through the process. p.p1 {margin: 0.0px

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Since its release in 2007, the JK has become wildly popular and nearly 1 million units have been sold in North America. With a wider track and longer wheelbase, the

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Wrangler JK is roomier, more comfortable, and delivers better on-road performance than its predecessor. However, it needs serious chassis, suspension, and drivetrain upgrades to tackle demanding off-road terrain and rock

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crawling. A full complement of heavy-duty suspension, chassis, steering, drivetrain, and high-performance engine parts has been developed for this platform. Co-authors Don Alexander and Quinn Thomas offer comprehensive

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guidance for making key modifications and selecting the best parts to transform your JK into a superior off-road performer. Lift kits from 1.75 to 5 inches are available, so you can fit off-road wheels and tires for exceptional traction.

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Suspension springs, specially calibrated coil-over shocks, and sway bars must work in concert to provide the correct suspension articulation and ride quality to scale obstacles and negotiate terrain. To increase durability and essential

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reliability, pitman arms, drop links, driveline parts, steering boxes, and skid plates are examined. Because the drivetrain must be ready for off-road service, the authors cover the most rugged and reliable axle assemblies available. Exhaust,

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intake, and electronic engine mapping upgrades make the Jeep 3.6- and 3.8-liter V-6 engines much more potent. If you believe that paved roads are simply accessways to the open range, you and your JK need this book. It contains

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the vital information to convert any mild-mannered street vehicle into an all-conquering off-road rig. Whether it's lift kits, wheels, tires, drivetrain, or suspension and engine parts, this volume provides detailed information, insightful

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guidance, and installation instructions, so you build an off-road JK to handle the toughest terrain.

Jeepers rejoice! Bring new life to your classic Jeep YJ with this new guide to off-road performance.

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More than 685,000 YJs were built from 1986 to 1995. They featured heavier wider leaf springs, trackbars, and sway bars for improved handling. A massive range of parts are offered for these vehicles, which include lift kits,

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wheels up to 37 inches, larger brake rotors, high-performance aluminum remote reservoir shocks, stronger driveshafts and U-joints, and Dana 60 conversions. In Jeep Wrangler YJ 1987-1995: Advance Performance Modifications, veteran

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author Don Alexander covers the 4.0 engine, transmissions (automatic and manual), transfer cases, axles, differentials, and driveshafts, steering boxes, brake upgrades, shocks, springs and lift kits, chassis strengthening, and

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interior upgrades. Also, following recent market trends, this book includes a complete Cummins turbo diesel swap into the YJ platform. Whether you want to do some simple upgrades, such as a lift and tire combination, or want to go all

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out with a rock crawler-style suspension and an engine swap, this book will guide you through the process.

Camaro Restoration
Handbook
Ground-Up or Sectional
Restoration Tips & Techniques for

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1967 to 1981 Camaros/Penguin
Honda Engine Swaps
How to Build Performance Nissan
Sport Compacts, 1991-2006
Swap LS Engines into Chevelles &
GM A-Bodies: 1964-1972
Jeep TJ 1997-2006

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Street Rodding Tips and
Techniques

Performance Modifications

How to build and maintain a
show-winning street rod. A
collection of brief, informative
technical tips that cover the

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entire range of building and maintaining street rods. Includes tips on every aspect of the mechanicals, exterior, and interior.

Discover the latest GM swap technology in this all-new,

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comprehensive LT swapper's guide. The GM LS engine has dominated the crate and engine-swap market for the past 20 years, and now the new LT engine has become a popular crate engine for swap projects as

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well. As essentially the next-generation LS, the LT features a compact footprint, lightweight design, and traditional V-8 pushrod architecture similar to its predecessor, so it swaps easily into many classic cars, hot rods,

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and even foreign sports cars. The new LT1/LT4 takes a bold step forward in technology, using active fuel management, direct injection, an upgraded ignition system, continuous variable valve timing, and a wet- or dry-

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sump oiling system. With this advanced technology and higher performance, more engine swappers are using the LT platform. Swapping expert and longtime author Jefferson Bryant presents thorough instruction for

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each crucial step in the LT swap process. Although the new LT shares the same basic engine design with the LS, almost all of the LT engine parts have been revised and updated. As a result, the mounting process has

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changed substantially, including motor-mount location, K-member mounting process, and component clearance; all these aspects of the swap are comprehensively covered. The high-compression direct-injected

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engines require higher-pressure fuel systems, so the fuel pump and fuel lines must be compatible with the system. LTs also feature revised bellhousing bolt patterns, so they require different adapter plates. The oil

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pan profile and oiling systems are unique, and this can present crossmember clearance problems. All other important aspects of the swap process are covered, including accessory drives and cooling systems,

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engine management systems, tuning software, controllers, and exhaust, so you can install the LT in popular GM A- and F-Body platforms as well as almost any other chassis. Solutions for the major swapping challenges,

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parts compatibility, and clearance issues are provided. Muscle car, hot rod, truck, and sports car owners have embraced the new LT platform and the aftermarket has followed suit with a wide range of

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products to facilitate swap projects. This book affords comprehensive guidance so you can complete a swap with confidence. If you have a project in the works, are planning a project in the near future, or if

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you simply want to learn how the swap process takes place, this book is for you.

Camaro fever is sweeping the country! And with the help of the Camaro Restoration Handbook, you can restore your 1967

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through 1981 Camaro either piece by piece, or from the ground up. Authors Tom Currao and Ron Sessions detail the complete restoration process necessary to turn any street-beaten Camaro into a true show

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winner. With over 500 photos and drawings, it's the most complete Camaro restoration resource available. Plus, you'll find chapters on year-by-year identification and model changes, disassembly, electrical

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wiring, interior and door
reconditioning, convertible, and
vinyl top repair. Also included are
details on rebuilding
suspensions, steering, brakes,
and sheet metal repair.

Procedures for body prep and

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paint, gauges, driveline reconditioning, subframe repair, and what to do after the restoration are fully illustrated. A complete Interior/Exterior color chart is an added bonus. The Camaro Restoration Handbook is

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the answer to your dream of a restored vintage Camaro. What are you waiting for?

Jeep CJ 1972-1986

Camaro Restoration Handbook

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1993-2002 Camaro and Firebird
Performance Handbook
LS Swaps
How to Swap Ford Modular
Engines into Mustangs, Torinos
and More