

Cylinder Head And Engine Rebuild Handbook

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Ford 429/460 Engines - Charles Morris
2019-03-21
Ford was unique in that it had two very different big-block engine designs during the height of the muscle car era. The original FE engine design was

pioneered in the late 1950s, primarily as a more powerful replacement for the dated Y-block design. What began as torquey engines meant to move heavyweight sedans morphed into screaming high-performance mills

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that won Le Mans and drag racing championships throughout the 1960s. By the late 1960s, the FE design was dated, so Ford replaced it with the 385 series, also known as the Lima design, in displacements of 429 and 460 ci, which was similar to the overhead-valve Cleveland design being pioneered at the same time. It didn't share the FE pedigree of racing success, mostly due to timing, but the new design was better in almost every way; it exists via Ford Motorsports' offerings to this day. Beginning in 1971, the 429 found its way between the fenders of Mustangs and Torinos in high-compression 4-barrel versions called the Cobra Jet and Super Cobra Jet, and they were some of the most powerful passenger car engines Ford had ever

built. If the muscle car era had not died out shortly after the release of these powerful engines, without a doubt the 429 performance variants would be ranked with the legendary big-blocks of all time. In this revised edition of *How to Rebuild Big-Block Ford Engines*, now titled *Ford 429/460 Engines: How to Rebuild*, Ford expert Charles Morris covers all the procedures, processes, and techniques for rebuilding your 385 Series big-block. Step-by-step text provides details for determining whether your engine actually needs a rebuild, preparation and removal, disassembly, inspection, cleaning, machining and parts selection, reassembly, start-up, and tuning. Also included is a chapter in building the special Boss 429

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engines, as well as a bonus chapter on the Ford 351 Cleveland, Ford's little brother to the big-block.

BMC (Leyland) 1.5 + 1.8 Litre Diesel Engines Operation and Repair Manuals - Bmc 2010

This book contains the operator's handbooks as well as the complete repair operation manuals for these still very popular marine and stationary engines.

1.5 + 1.8 Litre Diesel Engines - Anonymus

2014-12-18

Dieses Buch umfasst sowohl ein anwenderfreundliches Handbuch als auch einen Leitfaden zur Wartung und Reparatur der im Titel genannten, gängigen Diesel-Schiffsmotoren. Es handelt sich hierbei um eine englischsprachige Ausgabe.

Posche 911 Performance Handbook 1963-1998, 3rd Edition - Bruce Anderson

2009-06-15

Detailed tricks and techniques for enhancing the performance of air-cooled Porsche 911s, from the subtle to the extreme, with added info on maintenance, tune-ups, and resources.

Small Engines and Outdoor Power Equipment, Updated 2nd Edition -

Editors of Cool Springs Press 2020-09-29

This updated edition of the best-selling Small Engines and Power Equipment is more than a simple engine repair manual. Designed for the beginner with little or no mechanical experience, this book is a graphically appealing, step-by-step guide that covers all of the most important engine maintenance and repair skills you'll need to keep your equipment running at peak performance. It also shows exactly how to perform mechanical

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upkeep and repairs on the most common outdoor power implements. With new and improved content for today's motorized equipment, this DIY bible includes engine and mechanical repair plus maintenance instruction for all your outdoor power equipment, including lawn mowers, snow blowers, chain saws, power washers, generators, leaf blowers, rototillers, wood splitters, lawn edgers, and weed whips. With clear how-to photos and detailed diagrams, you'll see exactly what needs to be done. A comprehensive troubleshooting guide helps you define problems and enact solutions. Among the many skills you'll learn are seasonal tune-ups, changing oil, servicing spark plugs, cleaning filters, replacing muffler, servicing the fuel tank, overhauling

the carburetor, servicing brakes, inspecting flywheels, replacing the fuel pump, and replacing a rewind cord. With *Small Engines and Outdoor Power Equipment 2nd Edition* in your library, you won't need to haul the lawn mower off to the repair center and wait a few weeks just because a filter is plugged or the old gas needs to be replaced. This is a book every home-owning, weekend warrior should have a copy of.

Aviation Maintenance Technician Handbook-Powerplant - Federal Aviation Administration (FAA)/Aviation Supplies & Academics (ASA) 2012 This new FAA AMT Handbook--Powerplant (Volume 1 and 2) replaces and supersedes Advisory Circular (AC) 65-12A. Completely revised and updated, this handbook reflects current operating

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procedures, regulations, and equipment. This book was developed as part of a series of handbooks for persons preparing for mechanic certification with airframe or powerplant ratings, or both -- those seeking an Aviation Maintenance Technician (AMT) Certificate, also called an A&P license. An effective text for both students and instructors, this handbook will also serve as an invaluable reference guide for current technicians who wish to improve their knowledge. Powerplant Volume 1: Aircraft Engines, Engine Fuel and Fuel Metering Systems, Induction and Exhaust Systems, Engine Ignition and Electrical Systems, Engine Starting Systems Powerplant Volume 2: Lubrication and Cooling Systems, Propellers, Engine Removal and

Replacement, Engine Fire Protection Systems, Engine Maintenance and Operation, Light-Sport Aircraft Engines Includes colored charts, tables, full-color illustrations and photographs throughout, and an extensive glossary and index.

THE MOTOR CYCLE HANDBOOK
- HAROLD P. MANLY 1920

How to Rebuild Small-Block Ford Engines - Tom Monroe 1987-01-01

If you have a small-block Ford, then you need this book! This detailed guide covers the step-by-step rebuilding process of the popular small-block Ford engine. Parts inspection, diagnosis, reconditioning, and assembly are outlined in simple text. Hundreds of photos, charts, and diagrams visually walk you through the entire rebuild. You'll be able to completely

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disassemble your engine, recondition the block and cylinder heads, then reassemble and install the engine in your vehicle. There's even a section on how to perform tune-ups to maximize performance and economy. Sections on parts interchanging will help you identify all parts and determine which ones can and can't be swapped. This is truly a "hands-on" book. Don't put off your project any longer.

Start rebuilding your small-block Ford today!

Jeep, Dana and Chrysler Differentials - Larry Shepard 2013

Focuses on the disassembly, inspection and step-by-step rebuild of the most popular high-performance differentials. Axles and differentials are not incredibly complex components, but there are some specific steps to follow for

rebuilding, upgrading, and setting them up properly, and this book demystifies the process and explains it in detail.

How to Rebuild Ford Power Stroke Diesel Engines 1994-2007 - Bob McDonald 2012

This book covers the vast majority of Powerstroke Diesel engines on the road, and gives you the full story on their design. Each part of the engine is described and discussed in detail, with full-color photos of every critical component. A full and complete step-by-step engine rebuild is also included.

Datsun Service Repair Handbook - Alan Ahlstrand 1978

Chilton's Repair & Tune-up Guide - 1985

Chilton's Repair & Tune-Up Guide for the Sabb 900 was written with you, the do-it-

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yourself, in mind. Detailed step-by-step instructions fill the gap between the owner's manual in the glove compartment and the factory service manual used by professional mechanics.

How to Modify Your Mopar Magnum V-8HP1473 - Larry

Shepard 2005-09-06
Famed Mopar performance guru Larry Shepard offers a comprehensive guide on modifying Chrysler's popular Magnum V-8, used in 1992-and-newer Dodge Ram and Dakota; 1998-and-newer Durango; and 1994-98 Jeep Grand Cherokee 5.2L and 5.9L V8 engines. Includes sections on the cylinder block, piston/rods/crankshafts, cylinder heads and valvetrain, induction, exhaust, ignition and lubrication systems, engine swapping guide and horsepower calculations.

Fastening Specifications Porsche 911 (997)

Automobile - Jake Raby
2015-09-29

This book covers fastener size, grade, assembly position and tightening torque for the complete Porsche 911 (997) automobile. Use this quick reference guide for mechanical component assembly. Exploded view diagrams along with assembly diagrams and torque specifications. Also included is a torque specification table by bolt grade, coating and size.

New Hemi Engines 2003-Present - Larry Shepard
2019-02-11

With this book, you can confidently complete your Hemi rebuild and get your car or truck back into action! The modern Hemi engine is lighter and stronger and offers far better drivability and performance than its

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predecessors. However, after hundreds of thousands of miles, extreme use, or high-performance applications, these rugged engines require a professional caliber rebuild. Long-time Mopar engineer, racing coordinator, and veteran author Larry Shepard delivers thorough instructions for each crucial step of the rebuilding process. Before commencing engine tear down, Shepard shows you how to perform compression and leak down testing to accurately assess the health of the engine. Disassembly and comprehensive inspection instructions are provided so you can determine and remedy any underlying problems. Expert insight allows you to select the ideal parts package for your rebuild, whether OEM replacement or

compatible and complementary high-performance parts are selected. The most pertinent information for the latest machining practices is provided, so you can coordinate with the machine shop to return the block, head, intake, and other surfaces to like-new condition. Assembling the cylinder heads as well as accurately measuring, checking clearances, and test fitting parts is detailed, so you're sure all components are within spec and ready for final assembly. Finally, comprehensive step-by-step instructions are provided for assembling all components into a completed engine.

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GM Engine Performance Techbook - Editors of Haynes Manuals

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2020-02-25

The mysteries of the versatile LS series engines are unlocked in this GM Engine Performance Techbook. Covering everything from engine overhaul, cylinder head selection and modification, induction and fuel systems, camshafts and valve train, to beefing-up the bottom end, turbo and supercharger additions, engine swaps and extreme builds, this Techbook will help you get the most from your LS-powered vehicle.

AVI ASE - Automotive Video Incorporated
1999-01-01

Hot Rod Small Block Mopar Engines HP1405 - Larry Shepard 2003-03-04
How to Hot Rod Small-Block Mopar Engines is a completely revised, updated edition of 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 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 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, parts combinations and illustrations highlight this classic handbook on how to build the ultimate small-block Mopar engine.

The Mopar Six-Pack Engine Handbook HP1528 - Larry Shepard 2008-06-03

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A step-by-step guide to rebuilding, restoring, and modifying the famous Mopar 'Six-Pack' engines that appeared in all of Chrysler's muscle cars from 1969 through 1971, as well as the late-model small-blocks and crate performance motors currently offered by Chrysler.

The Mopar Six-Pack

Engine Handbook HP1528 - Larry Shepard 2008-06-03

A step-by-step guide to rebuilding, restoring, and modifying the famous Mopar 'Six-Pack' engines that appeared in all of Chrysler's muscle cars from 1969 through 1971, as well as the late-model small-blocks and crate performance motors currently offered by Chrysler.

How to Rebuild Big-Block Mopar Engines - Don

Taylor 1994-10-01

When Chrysler introduced the 350 and 361 "B" series of engines in 1958, they launched a

legacy of performance that sparked the muscle car war of the sixties and early seventies.

Within a few years, these engines evolved into the famed 426 Hemi, 413 Max Wedge and 440 Six-Pack. Dubbed "elephant motors" by enthusiasts, racers, and hot rodders alike, these big-blocks ruled the streets in Barracudas, Challengers, Furys, and Chargers. They were also used in a wide variety of other Chrysler, Dodge, and Plymouth cars and trucks. How to Rebuild Big-Block Mopar Engines is a comprehensive hands-on guide to rebuilding these motors to factory specifications. Included are fully illustrated, step-by-step sections that cover the entire engine rebuilding process, from inspection, removal, and disassembly, to machine shop work,

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reconditioning, assembly, installation, and tune-up. Collectors and restorers who rely on correct casting numbers for authenticity will find the parts identification and interchange information to be invaluable.

Written in an easy-to-understand and easy-to-follow format, this is an essential resource needed by any serious Mopar fan.

Chilton Auto Repair Manual, 1980 - Chilton Automotive Editorial Staff 1979

How to Rebuild GM LS-Series Engines - Chris Werner 2008

With the increasing popularity of GM's LS-series engine family, many enthusiasts are ready to rebuild. The first of its kind, *How to Rebuild GM LS-Series Engines*, tells you exactly how to do that. The book explains

variations between the various LS-series engines and elaborates up on the features that make this engine family such an excellent design. As with all Workbench titles, this book details and highlights special components, tools, chemicals, and other accessories needed to get the job done right, the first time.

Appendices are packed full of valuable reference information, and the book includes a Work-Along Sheet to help you record vital statistics and measurements along the way.

Johnson Service-repair Handbook, 40 to 140 Hp, 1965-1983 - Kalton C. Lahue 1983

Briggs & Stratton L-Head Engine Service - Penton Staff 2000-05-24

Clymer Manuals ProSeries
Briggs & Stratton

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2.0-12.5 hp, single-cylinder, L-head aluminum engine repair manual covers more than 55 models.

Engine Builder's Handbook HP1245 - Tom Monroe 1996-08-01
All of the information in this valuable companion guide is presented in terms easy to understand. Packed with general tips, techniques, and procedures that can be applied to all types of engine building, whether for muscle cars, classics, hot rods, powerboats or all-out race cars. Sections covered include: · Blueprinting · Machining · Reconditioning short blocks · Degreasing camshafts · Reconditioning cylinder heads · Vavetrain assembly · Measuring tools · Engine assembly
The Classic Chevy Truck Handbook HP 1534 - Jim Richardson 2009-01-06

This essential guide for owners of Chevy trucks built from 1955 through 1960 provides step-by-step instruction on frame and chassis cleaning, suspension rebuilding and upgrades, rebuilding steering, upgrading brakes to front discs, rebuilding the engine, cooling system upgrades, transmission choices, electrical rewiring, and much more.

VW Beetle Restoration Handbook - 2000
Restoring 1949-1967 VW Beetles to original factory condition in the simplest, most cost-effective way possible is the goal of this illustrated guide. Sections include tear-down of the unrestored vehicle, part evaluation and buying, engine rebuilding and restoring, vintage accessories, and more.
Briggs & Stratton L-Head Engine Service - Penton

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Staff 2000-05-24
Clymer Manuals ProSeries
Briggs & Stratton
2.0-12.5 hp, single-
cylinder, L-head
aluminum engine repair
manual covers more than
55 models.

**High-Performance GM LS-
Series Cylinder Head
Guide** - David Grasso
2012

Here is a comprehensive
breakdown of the
features and
specifications of all
available Gen III/IV
small-block Chevrolet
cylinder heads, as well
as supporting
components.

*Chevrolet Engine
Overhaul Manual* - John
Haynes 1991-09-05
A complete, step-by-step
guide to the entire
engine rebuilding
process. Every step is
fully illustrated.
Covers the most popular
engines. Everything
you'll need to know to
do-it-yourself. In a
clear, easy-to-follow

format. What you can
learn: Includes 262,
265, 267, 283, 302, 305,
307, 327, 350, 396, 400,
402, 427 and 454 cubic
inch V8 engines: •
Diagnosis • Overhaul •
Performance • Economy
modifications Book
Summary: • Engine
identification • Tools
and equipment •
Diagnosis • Cylinder
head servicing • Engine
removal and installation
• Step-by-step
procedures • Fully
illustrated with over
300 photos • Tips from
professionals • Machine
shop repairs •
Performance and economy
modifications Table of
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overhaul Chapter 5:
Overhauling the cylinder
heads Chapter 6:
Overhauling the engine
block Chapter 7:

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Reassembling and
installing the engine
Chapter 8: Related
repairs Chapter 9:
Improving performance
and economy

Ford FE Engines - Barry
Rabotnick 2018-06-15
Ford FE engines, which
were manufactured from
the late 1950s all the
way through the
mid-1970s, were
designated as the large-
displacement engines in
the Ford lineup. FE
means Ford Edsel, and
reflects an era when
Ford sought to promote
the Edsel name. The
design of these engines
was implemented to
increase displacement
over its predecessor,
the Y-Block engines of
the previous decade.
Early models were fairly
modest in displacement,
as were most big-blocks
of the era, but they
grew quickly to fill the
needs of rapidly
changing chassis
requirements and

consumer demand for
larger vehicles. As it
grew, the FE engine
performed admirably as a
heavy passenger car and
light truck engine. It
also became quite
accomplished in
performance circles,
winning the 24 Hours of
Le Mans, as well as
powering Ford's muscle
car and drag racing
programs in the mid- to
late 1960s. In this
book, you will learn
everything you need to
know to rebuild one of
these legendary engines.
CarTech's unique
Workbench series format
takes you step-by-step
through the entire
rebuilding process.
Covered are engine
identification and
selection, disassembly,
cleaning, parts analysis
and assessment, machine
shop processes,
replacement parts
selection, re-assembly
and start-up/break-in
techniques. Along the

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way you find helpful tips on performance upgrades, trouble spots to look for, special tools required, and professional builder's tips. FE master, owner of Survival Motorsports, and veteran author Barry Rabotnick shares all of his tricks and secrets on building a durable and reliable FE engine. Whether you are simply rebuilding an old truck for reliable service use, restoring a 100-point show car, or building the foundation for a high-performance street and strip machine, this book will be an irreplaceable resource for all your future FE engine projects.

Diesel Engine Care and Repair - Nigel Calder
2007-02-14

When it's sink or swim, this Quick Guide will keep you afloat! On the water, when an engine problem surfaces, there

is no time to spend searching through an exhaustive manual. Diesel Engine Care and Repair provides all the answers--fast. Drawn from the world's largest boating library, it presents 14 color panels of authoritative, concise information on diesel engines. This on-the-spot reference is a convenient, accessible, and utterly streamlined information resource.

Chilton's Import Car Repair Manual - Chilton Automotive Editorial Staff 1979

This book includes repair information on cars and light trucks. Includes specifications, tune-ups, troubleshooting and diagnosis, engine rebuilding, emissions controls, brakes, transmissions, and more.
1.5 + 1.8 Litre Diesel Engines - BMC (Leyland)
2013-09-15

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sowohl ein anwenderfreundliches Handbuch als auch einen Leitfaden zur Wartung und Reparatur der im Titel genannten, gängigen Dieselschiffsmotoren. Es handelt sich hierbei um eine englischsprachige Ausgabe.

Weekend Mechanic's Guide to Engine Rebuilding -

Paul Dempsey 1989
A complete rebuilder's guide to automotive engines.

Small Engines and Outdoor Power Equipment, Updated 2nd Edition -

Editors of Cool Springs Press 2020-09-28

This newly up-to-date edition of the best-selling DIY reference Small Engines and Outdoor Power Equipment offers them same great comprehensive and illustrated instruction but with new and improved content for today's motorized equipment.

Today's Technician: Automotive Engine Repair & Rebuilding, Classroom Manual and Shop Manual, Spiral bound Version -

Chris Hadfield
2013-02-14

TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, 5th

Edition delivers the theoretical and practical knowledge you need to repair and service modern

automotive engines and prepare for the Automotive Service Excellence (ASE) certification exam.

Designed around National Automotive Technicians Education Foundation (NATEF) standards, this system-specific text addresses engine construction, engine operation, intake and exhaust systems, and engine repair, as well as the basics in engine rebuilding. Move your career forward with discussions about

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advancements in hybrid technology, factors affecting engine performance, and the designs and functions of modern component parts. Long known for its technical accuracy and concise writing style, TODAY'S TECHNICIAN: AUTOMOTIVE ENGINE REPAIR & REBUILDING, 5th Edition revs up your reading experience with realistic line drawings, detailed photos, critical thinking questions, and much more! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

4.6L & 5.4L Ford Engines
- George Reid 2015-04-15
Since 1991, the popular and highly modifiable Ford 4.6-liter has become a modern-day V-8 phenomenon, powering everything from Ford Mustangs to hand-built

hot rods and the 5.4-liter has powered trucks, SUVs, the Shelby GT500, and more. The wildly popular 4.6-liter has created an industry unto itself with a huge supply of aftermarket high-performance parts, machine services, and accessories. Its design delivers exceptional potential, flexibility, and reliability. The 4.6-liter can be built to produce 300 hp up to 2,000 hp, and in turn, it has become a favorite among rebuilders, racers, and high-performance enthusiasts. *4.6-/5.4-Liter Ford Engines: How to Rebuild* expertly guides you through each step of rebuilding a 4.6-liter as well as a 5.4-liter engine, providing essential information and insightful detail. This volume delivers the complete nuts-and-bolts rebuild story, so the enthusiast can

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professionally rebuild an engine at home and achieve the desired performance goals. In addition, it contains a retrospective of the engine family, essential identification information, and component differences between engines made at Romeo and Windsor factories for identifying your engine and selecting the right parts. It also covers how to properly plan a 4.6-/5.4-liter build-up and choose the best equipment for your engine's particular application. As with all Workbench Series books, this book is packed with detailed photos and comprehensive captions, where you are guided step by step through the disassembly, machine work, assembly, start-up, break-in, and tuning procedures for all iterations of the 4.6-/5.4-liter engines,

including 2-valve and 3-valve SOHC and the 4-valve DOHC versions. It also includes an easy-to-reference spec chart and suppliers guide so you find the right equipment for your particular build up.

Jeep 4.0 Engines - Larry Shepard 2014-09-15

The venerable Jeep 4.0-liter inline-six engine has powered millions of Jeeps, including CJs, YJs, Wranglers, Cherokees, and Wagoneers. The 4.0 delivers adequate horsepower from the factory, but many off-road drivers want more horsepower and torque to conquer challenging terrain, which means these engines are often built and modified. The Jeep 4.0, or 242-ci, is affordable, abundant, exceptionally durable, and many consider it one of the best 4x4 off-road engines. In this

Workbench title, veteran

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author and Chrysler/Jeep engine expert Larry Shepard covers the rebuild of an entire engine in exceptional detail. He also delves into popular high-performance modifications and build-ups. Step-by-step photos and captions cover each crucial step of the engine disassembly. He shows the inspection of all critical parts, including block, heads, rotating assembly, intake, and exhaust. Critical machining processes are covered, such as decking the block, line boring, and overboring the block. The book provides exceptional detail during the step-by-step assembly so your engine is strong and reliable. Installing a larger-displacement rotating assembly or stroker

package is one of the most cost-effective ways to increase performance, and the author covers a stroker package installation in detail. With millions of Jeep 4.0 engines in the marketplace (which are subjected to extreme use), many of these engines require a rebuild. In addition, many owners want to extract more torque and horsepower from their 4.0 engines so these engine are also modified. Until now, there has not been a complete and authoritative guide that covers the engine rebuild and build-up process from beginning to end. Jeep 4.0 Engines is the essential guide for an at-home mechanic to perform a professional-caliber rebuild or a high-performance build-up.