

Harley Performance Engine Builders

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Builder

Donny is the Winner of the 2012 International Book Awards. Donny Petersen offers the real deal in performing your Harley-Davidson Twin Cam. Graphics, pictures, and charts guide the reader on a sure-footed journey to a thorough H-D Twin Cam performance understanding. Petersen's insight makes technical issues understandable even for the novice. Donny simply explains what unfailingly works in performing the Twin Cam. This is the second volume of Petersen's long-awaited Donny's Unauthorized Technical Guide to Harley Davidson 1936 to Present. This twelve-volume series by the dean of motorcycle technology examines the theory, design, and practical aspects of Twin Cam performance. Donny studied privately with Harley-Davidson engineers, having worked on Harleys for over 35 years. He founded Toronto's Heavy Duty Cycles in 1974, North America's premier motorcycle shop. Donny has ridden hundreds of performed Shovels, Evos, and Twin Cams across four continents doing all of his own roadside repairs. He has acquired his practical knowledge the hard way. Donny has the privilege of sharing his performance secrets the easy way. Donny will walk you through detailed performing procedures like headwork, turbo-supercharging, nitrous, big-inch Harleys and completing simple hop-up procedures like air breathers, exhausts, and ignition modifications. Donny Petersen feels honored to share the wealth of his motorcycle knowledge and technical expertise.

Engines & Enterprise

Custom Bike Building Basics is the basic bible that at-home builders need to build and modify their own motorcycle. Before you can build that dream bike, you need a place to work and a set of tools to work with. Chapter One covers these topics

and more,

Harley-Davidson Sportster/Buell Engine Hop-Up Guide

If you're looking for ways to keep up with the pack - or blow right past them - this book has 101 of them. Boost the performance of your Harley-Davidson's Twin-Cam engine with 101 projects broken out by each specific aspect of the motorcycle, including engine, suspension, transmission, exhaust, brakes, and body. Hundreds of photos and diagrams take you step-by-step through each project making it a breeze to keep other riders in your rearview mirror.

Automotive Engineering

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 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 Rabortnick 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.

The Classic Harley-Davidson

Harley-Davidson Sportster Performance Handbook

DIVA photographic chronology of some of the fastest, most stylish, and most individualized bikes in motorcycling history./divDIV /divDIVOriginally used as a slur against riders who used hopped-up motorcycles to travel from one transport café to another, "café racer" describes a bike genre that first became popular in 1960s British rocker subculture—although the motorcycles were also common in Italy, France, and other European countries. The rebellious rock-and-roll counterculture

is what first inspired these fast, personalized, and distinctive bikes, with their owners often racing down public roads in excess of 100 miles per hour ("ton up," in British slang), leading to their public branding as "ton-up boys." Café Racers traces café racer motorcycles from their origins in the mid-twentieth century all the way into modern times, where the style has made a recent comeback in North America and Europe alike, through the museum-quality portraiture of top motorcycle photographer Michael Lichter and the text of motorcycle culture expert Paul d'Orléans. Chronologically illustrated with fascinating historical photography, the book travels through the numerous ever-morphing and unique eras of these nimble, lean, light, and head-turning machines. Café Racers visually celebrates a motorcycle riding culture as complex as the vast array of bikes within it./div

Product Engineering

This comprehensive history of the Harley takes a close look at the world's most famous motorcycle manufacturer, from its humble beginnings in a garden shed in 1903 to the surging popularity of today. More than 250 color and black-and-white photographs of Hogs, Shovels, Panheads, and Softails provide a visual documentary of the bike's transformation over the years, while an absorbing text by motorcycle journalist and Harley enthusiast, Tod Rafferty, follows the fortunes of this fabled marque as it approaches its centenary.

Harley-Davidson

Six Harley builders describe their motorcycles, how they became interested in bikes, and how their Harley is different from the others.

Buick Nailhead: How to Rebuild & Modify 1953-1966

Arranged chronologically, presents a history of every major motorcycle model produced by the legendary company since 1903

101 Harley-Davidson Twin Cam Performance Projects

Enthusiast

Custom Harley

Donny's Unauthorized Technical Guide to Harley Davidson 1936 to Present

Vol. for 1955 includes an issue with title Product design handbook issue; 1956, Product design digest issue; 1957, Design digest issue.

The Ducati 750 Bible

Cycle World on Harley-Davidson 1978-1983

Custom Motorcycles: Choppers, Bobbers, Baggers

Contractors and Engineers

Business Publication Advertising Source

For Harley-Davidson aficionados, the very name Sportster conjures an image of a fire-breathing mechanical beast scorching the world's tarmac image the Sportster itself often does not live up to. Straight from the factory, in its standard form, the Sportster routinely proves an entry-level motorcycle providing a relatively tame ride. This book aims to change all that and to show every Sportster rider how to free the beast in his or her bike. With expert, detailed advice on the proper mechanical massaging and plenty of helpful diagrams and photos this updated, third edition of Buzz Buzzelli's best-selling handbook shows how the Sportster can be transformed into the superbike of old. Including a history of the Sportster from its birth in 1957 to the recent introduction of a new engine (only the third in its long life), this book has everything it takes to open up the gates of hell and give the Sportster its head.

Modern Engine Blueprinting Techniques

David Vizard's How to Port and Flow Test Cylinder Heads

From four-speed Evos to five-speed Buells, this book is the Bible for Sportster performance. Whether your intent is to improve the existing factory parts or install something from the aftermarket, author Kip Woodring explains not just which parts to buy, but why. Fourteen chapters cover: History, Planning, Exhaust, Induction, Ignition, Charging and Starting, Gearing, Valvetrain, Cams, Heads, Cylinders and Pistons, Flywheels, Oil, Transmissions and Clutches. Not just another hop-up manual, the Sportster/Buell Engine Hop Up Guide includes an in-depth analysis of important topics left out of other books. Issues like oil and oil friction, combustion-chamber design, camshaft trade-offs, valvegear weight and much more. Well illustrated, this black & white Sportster/Buell book from Wolfgang Publications includes over 200 illustrations on 144 pages.

Automotive Industries

The V-Twin Tuner's Handbook: Achieve the ultimate performance from your Harley-Davidson, hardcore tech for designing, building, and tuning our V-twin, essential

equations, reference tables, and theory for maximizing performance, pro engine design and tuning secrets

Many people modify their Harley-Davidson engines—and find the results disappointing. What they might not know—and what this book teaches—is that emphasizing horsepower over torque, the usual approach, makes for a difficult ride. Author Bill Rook has spent decades perfecting the art of building torque-monster V-twin Harley engines. Here he brings that experience to bear, guiding motorcycle enthusiasts through the modifications that make a bike not just fast but comfortable to ride. With clear, step-by-step instructions, his book shows readers how to get high performance out of their Harleys—and enjoy them, too.

Ford FE Engines

This illustrated biography reveals how Sir Harry Ricardo found his place, along with Sir Henry Royce and Frederick Lanchester, in the ranks of the British engineers and designers whose work had a profound international influence on the development of the internal-combustion engine. His achievements as an engineer, scientist and inventor were repeatedly honoured throughout the automobile and aircraft industries during his lifetime.

WALNECK'S CLASSIC CYCLE TRADER, APRIL 2006

The Harley-Davidson motorcycle has evolved from humble beginnings as a backyard experiment to become the universal symbol of freedom. This text contains a unique collection of photos, accompanied by descriptions of the motorcycle's design. '

America's Best Harley-Davidson Customs

Cafe Racers

Volume I: The Twin Cam is the updated first volume of Petersen's long-awaited Donny's Unauthorized Technical Guide to Harley-Davidson, 1936 to Present series. This twelve-volume series by the dean of motorcycle technology examines the theory, design, and practical aspects of all things Harley-Davidson.

The V-Twin Tuner's Handbook

Vols. for 1919- include an Annual statistical issue (title varies).

Low Rider

Car and Driver

A pictorial celebration of the world's most famous motorcycle is designed for fans

of all ages and follows its status as the leading motorcycle icon of the 1950s through today, complemented by vibrant full-color photographs.

The Complete Harley-Davidson

The Big Twin High-Performance Guide

WALNECK'S CLASSIC CYCLE TRADER, MAY 1988

Learn how to rebuild and upgrade your Buick Nailhead with the first book ever dedicated to the subject! In this all-new book from Nailhead racer and veteran engine builder Gary Weldon, you will learn everything you need to know about how to rebuild and upgrade the venerable Buick Nailhead engine. Weldon takes you through each step, including a review of the birth of the Nailhead, the benefits of its unique design, serial and casting number information to source and identify the best project, and a history of the engine in development. Also covered are the processes of rebuilding, including disassembly, inspection, sourcing the best parts, making critical upgrades, reassembly, and break-in. Of course, all the machine shop work is covered, and practical advice on building engines for competition is provided. The Nailhead was a throwback to the early overhead-valve engine design, and that unique design makes it a popular choice for period-correct hot rod projects. In addition, if your torquey Nailhead resides between the fenders of a Buick Special, LeSabre, Invicta, Roadmaster, Riviera, Century, Skylark, Wildcat, or Electra 225, this book will help you keep that old beauty on the road.

American Modeler

The Ducati 750 motorcycles were among the last pure, unadulterated sporting motorcycles built--representing a time before cost accounting and government design requirements--and have, unsurprisingly, inspired a new generation of retro classics.

Custom Bike Building Basics

Author Vizard covers blending the bowls, basic porting procedures, as well as pocket porting, porting the intake runners, and many advanced procedures. Advanced procedures include unshrouding valves and developing the ideal port area and angle.

Motor

Engine production for the typical car manufactured today is a study in mass production. Benefits in the manufacturing process for the manufacturer often run counter to the interests of the end user. What speeds up production and saves manufacturing costs results in an engine that is made 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 what enthusiasts want out of their 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 and perform detailed procedures, 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 maximi

Aircraft Piston Engines

Harley

How to Build a Harley-Davidson Torque Monster

Hot Rod

Customizing the king of bikes is a multimillion dollar industry, with results that are absolutely astounding! Here's the lowdown on all the specialized techniques, from basic structure to painting, powder coating, special finishes to custom accessories, parts and rebuilding. Included are famous and special customizations, all in full-color photos.

Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present

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