

harley torque specs

harley torque specs are essential parameters that every Harley-Davidson motorcycle owner and mechanic must understand to ensure proper assembly, maintenance, and performance of these iconic bikes. Torque specifications dictate the precise amount of twisting force applied to bolts and fasteners, which directly affects the safety, reliability, and longevity of the motorcycle. This article provides a comprehensive guide to Harley torque specs, covering common torque values for critical components, the importance of using correct torque settings, and tips for measuring and applying torque accurately. Whether performing routine maintenance or undertaking major repairs, knowing the right Harley torque specs is crucial for avoiding damage and ensuring optimal operation. This guide also includes practical advice on tools and techniques to help users achieve the recommended torque values with confidence. Explore the detailed sections below for a thorough understanding of Harley-Davidson torque requirements and best practices.

- Understanding Torque and Its Importance
- Common Harley Torque Specifications
- Tools for Measuring and Applying Torque
- Tips for Accurate Torque Application
- Safety Considerations and Maintenance Practices

Understanding Torque and Its Importance

Torque refers to the rotational force applied when tightening bolts and fasteners on a motorcycle. In the context of Harley-Davidson motorcycles, applying the correct torque is vital to prevent parts from loosening during operation or being overtightened, which can cause damage such as stripped threads or broken bolts. Harley torque specs are determined by engineers to ensure optimal clamping force that maintains structural integrity and mechanical function.

Using the correct torque ensures that components like engine parts, wheels, and suspension elements operate safely and efficiently. Incorrect torque can lead to mechanical failure, safety hazards, and increased maintenance costs. Understanding the role and significance of torque helps enthusiasts and professionals maintain Harley motorcycles in peak condition.

What Is Torque?

Torque is measured in units such as foot-pounds (ft-lbs) or Newton-meters (Nm). It represents the twisting force needed to tighten or loosen a fastener. For Harley motorcycles, torque specifications are provided in the owner's manual or service guides and must be followed precisely.

Why Correct Torque Matters

Applying the proper torque ensures even pressure distribution between components, prevents leaks in engine gaskets, and maintains the alignment of moving parts. It also reduces the risk of fastener fatigue and failure, which can cause serious mechanical issues and compromise rider safety.

Common Harley Torque Specifications

Harley torque specs vary depending on the model, year, and specific components. However, some general torque values apply to common parts across many Harley-Davidson motorcycles. Familiarity with these values is crucial for maintenance tasks such as engine work, wheel installation, and frame assembly.

Engine Torque Specifications

The engine assembly contains several critical fasteners that require precise torque settings. For example, cylinder head bolts, rocker box bolts, and camshaft cover bolts each have designated torque values to ensure proper sealing and operation.

- **Cylinder Head Bolts:** Typically torqued between 20-30 ft-lbs, depending on the model.
- **Rocker Box Bolts:** Usually around 12-15 ft-lbs to prevent oil leaks and maintain valve train alignment.
- **Camshaft Cover Bolts:** Often set between 8-12 ft-lbs for proper sealing without damaging the cover.

Wheel and Brake Torque Specifications

Wheels and brake components require specific torque values to ensure safety and performance. Over or under-torqued wheel bolts can lead to wheel wobble or detachment, while brake caliper bolts must be tight enough to maintain braking efficiency.

- **Wheel Axle Nut:** Typically torqued between 60-90 ft-lbs depending on model and wheel type.
- **Brake Caliper Bolts:** Usually set between 20-30 ft-lbs for secure mounting.
- **Brake Rotor Bolts:** Commonly torqued around 15-25 ft-lbs to ensure rotor stability.

Frame and Suspension Torque Specifications

Frame bolts and suspension components such as forks, shocks, and swingarm fasteners also have recommended torque values to maintain structural integrity and handling performance.

- **Frame Mounting Bolts:** Often torqued between 40-60 ft-lbs for strong chassis connections.
- **Fork Tube Clamps:** Typically 15-25 ft-lbs to avoid damaging the fork tubes while ensuring stability.
- **Shock Mount Bolts:** Usually around 35-50 ft-lbs depending on model and shock type.

Tools for Measuring and Applying Torque

Accurately applying Harley torque specs requires the use of proper tools designed for torque measurement. Using incorrect or worn tools can lead to inaccurate torque application, risking component damage or safety hazards.

Torque Wrenches

Torque wrenches are precision tools calibrated to apply a specific amount of torque to fasteners. Various types include click-type, beam-type, and digital torque wrenches, each offering different levels of accuracy and ease of use.

Torque Screwdrivers and Torque Multipliers

For smaller fasteners, torque screwdrivers provide controlled torque application. Torque multipliers assist in applying higher torque values without excessive physical effort, useful for large bolts on Harley motorcycles.

Calibration and Maintenance of Tools

Regular calibration of torque tools ensures their accuracy. It is recommended that torque wrenches be calibrated annually or after a certain number of uses to maintain reliability when applying Harley torque specs.

Tips for Accurate Torque Application

Applying torque correctly involves more than just setting a torque wrench to the specified value. Several best practices help achieve the desired clamping force without damaging components.

Clean and Lubricate Fasteners

Dirt, corrosion, or lack of lubrication on bolts and threads can affect torque readings. Cleaning threads and applying the recommended lubricant or anti-seize compound helps achieve accurate torque and prevents galling.

Use the Correct Sequence

When tightening multiple bolts on components like cylinder heads or wheels, following the manufacturer's recommended tightening sequence ensures even pressure distribution and proper sealing.

Apply Torque Gradually

Instead of tightening bolts to full torque in one step, it is advisable to apply torque in stages. This gradual tightening helps prevent uneven stresses and potential warping of parts.

Verify Torque After Initial Use

After the motorcycle has been ridden for a short distance following maintenance, rechecking critical fasteners' torque can identify any loosening due to settling or thermal expansion.

Safety Considerations and Maintenance Practices

Adhering to Harley torque specs is a fundamental safety practice that contributes to the reliable operation of the motorcycle. Proper maintenance routines incorporate torque checks and adjustments as part of regular inspections.

Regular Torque Inspections

Periodic inspections of torque on key fasteners help detect loosening caused by vibration and thermal cycling. This proactive approach prevents accidents and mechanical failures.

Use Genuine Parts and Follow Manufacturer Guidelines

Using OEM parts and following Harley-Davidson's service manuals ensures that torque specifications and procedures are appropriate for the specific model and configuration.

Training and Documentation

Mechanics and owners should maintain access to updated Harley torque specs and receive proper training on torque application techniques to uphold safety and quality standards.

Summary of Key Practices

- Always refer to the specific Harley model's service manual for exact torque specs.
- Use calibrated torque tools for accuracy.
- Clean and lubricate fasteners before torquing.
- Follow correct tightening sequences and torque increments.
- Regularly inspect and re-torque critical fasteners as needed.

Frequently Asked Questions

What are the standard torque specs for Harley-Davidson engine bolts?

The standard torque specs for Harley-Davidson engine bolts vary by model and year, but typically, cylinder head bolts should be torqued to around 20-25 ft-lbs initially and then tightened further to about 65-75 ft-lbs. Always refer to the specific service manual for your model.

What is the recommended torque specification for Harley-Davidson primary chaincase bolts?

Harley-Davidson primary chaincase bolts generally require a torque setting of approximately 15-20 ft-lbs. It is important to follow the exact specs in the service manual for your specific bike model to avoid damage.

How tight should Harley-Davidson handlebar clamp bolts be torqued?

Handlebar clamp bolts on Harley-Davidson motorcycles should typically be torqued to around 15-20 ft-lbs. Over-tightening can damage the handlebars or clamps, so always use a calibrated torque wrench.

What is the torque specification for Harley-Davidson brake caliper mounting bolts?

Brake caliper mounting bolts on Harley-Davidson motorcycles are usually torqued to about 25-30 ft-lbs. Proper torque ensures safe braking performance and prevents bolt loosening during operation.

Where can I find the correct torque specs for my Harley-Davidson motorcycle?

The correct torque specifications for your Harley-Davidson motorcycle can be found in the official Harley-Davidson service manual for your specific model and year. These manuals provide detailed torque specs for all bolts and components to ensure proper maintenance.

Additional Resources

1. Harley Torque Specs Handbook: Essential Guidelines for Every Model

This comprehensive handbook offers detailed torque specifications for a wide range of Harley-Davidson motorcycles. It is an indispensable resource for mechanics and enthusiasts aiming to maintain their bikes with precision. The book also includes tips on proper tool usage and torque sequences to prevent damage during assembly.

2. The Harley-Davidson Maintenance Manual: Torque and Beyond

A thorough maintenance guide focusing on torque settings as a critical aspect of Harley upkeep. It covers various models and years, providing step-by-step instructions to ensure bolts and components are tightened correctly. Readers will find practical advice for both routine maintenance and complex repairs.

3. Torque Mastery for Harley-Davidson Engines

Dedicated to engine-specific torque specs, this book dives deep into the critical tightening requirements for Harley engines. It helps readers

understand the importance of torque in engine performance and longevity. The guide also includes troubleshooting tips related to improper torque applications.

4. *Harley Torque Techniques: From Beginner to Pro*

Designed for riders and mechanics at all skill levels, this book breaks down the fundamentals of torque application on Harley motorcycles. It includes easy-to-follow explanations and charts for torque specs across various Harley models. Readers will gain confidence in performing maintenance tasks with accuracy.

5. *The Ultimate Harley Torque Reference Guide*

This reference guide compiles torque specifications for nearly every Harley-Davidson component imaginable. It serves as a quick-access tool for shop professionals and DIY enthusiasts alike. The book is organized by model and part, making it simple to find the exact torque values needed.

6. *Harley Torque and Fastener Fundamentals*

Focusing on the science behind torque and fasteners, this book educates readers on why proper torque is vital for Harley motorcycles. It explains bolt grades, thread types, and the consequences of over- or under-tightening. The text is supported by illustrations and real-world examples.

7. *Precision Torque: Harley-Davidson Workshop Secrets*

Offering insider knowledge from experienced Harley mechanics, this book reveals best practices for torque application. It includes anecdotal advice and common pitfalls to avoid during assembly and repairs. The content is ideal for those seeking to elevate their mechanical skills.

8. *Harley Torque Specs: A Visual Guide*

This visually rich guide combines detailed photographs and diagrams with torque specifications for Harley motorcycles. It helps readers visually identify parts and understand where and how torque should be applied. The book is particularly useful for visual learners and hands-on technicians.

9. *Advanced Harley Torque Strategies for Performance Builds*

Targeted at performance enthusiasts, this book discusses torque specifications in the context of high-performance Harley builds and modifications. It covers the nuances of torque adjustments when upgrading parts or enhancing engine performance. Readers will find expert recommendations to ensure reliability under increased stress.

Harley Torque Specs

Harley Torque Specs: The Ultimate Guide to Safe and Effective Harley-Davidson Maintenance

Are you tired of guessing when tightening bolts on your Harley-Davidson? Do you fear stripping threads or causing damage due to incorrect torque values? Improper torque can lead to expensive repairs, compromised safety, and a frustrating experience for any Harley owner. Finding reliable, accurate torque specifications for your specific Harley model and year can be a nightmare, scattering across various manuals and online forums. This ebook cuts through the confusion and provides you with the precise information you need to maintain your Harley with confidence.

This comprehensive guide, "Harley Torque Specs: Your Comprehensive Guide to Safe and Efficient Maintenance," by [Your Name/Pen Name], will arm you with the knowledge to:

Avoid costly mistakes: Learn the correct torque values for all crucial components.

Ensure your safety: Prevent mechanical failures caused by improperly tightened parts.

Save time and frustration: Access a complete, readily available reference.

Extend the life of your Harley: Proper maintenance is key to longevity.

Contents:

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Harley Torque Specs: Your Comprehensive Guide to Safe and Efficient Maintenance

Introduction: Understanding the Importance of Torque Specifications

The heart of proper motorcycle maintenance lies in understanding and applying the correct torque specifications. Torque, measured in foot-pounds (ft-lbs) or Newton-meters (Nm), represents the rotational force applied to a fastener. Using too little torque results in loose bolts, potential component failure, and safety hazards. Over-tightening, conversely, can strip threads, damage parts,

and lead to costly repairs. This guide aims to provide you with the knowledge and resources to avoid these pitfalls and ensure the safe and reliable operation of your Harley-Davidson. We'll explore where to find accurate specifications, the tools you need, and the techniques for proper torque application.

Chapter 1: Finding Your Harley's Torque Specifications: Locating Official Sources and Deciphering Manuals

Locating the correct torque specifications for your Harley-Davidson can sometimes feel like a treasure hunt. However, a systematic approach can significantly simplify the process. The most reliable source is always the official Harley-Davidson service manual specific to your bike's year and model. These manuals are comprehensive and provide detailed specifications for every bolt and nut.

Where to find your Harley-Davidson service manual:

Harley-Davidson dealership: This is the most straightforward option. Dealership mechanics can order a manual for you.

Online retailers: Websites like Amazon, eBay, and specialized motorcycle parts suppliers often sell service manuals. Ensure you get the correct one for your specific year and model.

Harley-Davidson website: While not always directly available for download, their website might provide links to authorized retailers.

Deciphering your service manual:

Harley-Davidson service manuals are quite detailed. Look for sections specifically labeled "Torque Specifications," "Fastener Specifications," or similar headings. These sections often organize specifications by component (engine, transmission, chassis, etc.). Pay close attention to the units used (ft-lbs or Nm) and ensure your torque wrench is calibrated accordingly. Always cross-reference the information with the diagrams provided to ensure you're targeting the correct fastener. Don't hesitate to consult multiple sources if you encounter ambiguity.

Chapter 2: Essential Tools and Techniques for Accurate Torque Application

Applying the correct torque requires the right tools and techniques. The most crucial tool is a torque wrench, available in various types:

Beam-type torque wrenches: These are less expensive but less precise. They use a needle that indicates when the set torque is reached.

Click-type torque wrenches: These are more common and offer greater accuracy. They provide a distinct "click" when the desired torque is applied.

Digital torque wrenches: These are the most accurate and provide a digital readout of the applied torque.

Choosing the right torque wrench:

Select a wrench with a range that covers the torque values needed for your Harley. A wrench with a range slightly exceeding the highest torque value in your service manual is recommended to allow for flexibility.

Proper technique:

Calibration: Before each use, ensure your torque wrench is properly calibrated. Many wrenches require annual calibration for optimal accuracy.

Proper fit: Use the correct socket size for the fastener. A loose-fitting socket can lead to inaccurate torque application.

Avoid jerking motions: Apply torque smoothly and steadily to avoid damage to the fastener or wrench.

Angle of application: Apply the torque in a perpendicular direction to the fastener.

Always refer to your torque wrench's instruction manual for detailed calibration and usage instructions.

Chapter 3: Torque Specs for Common Harley Components (Engine, Transmission, Wheels, etc.): Detailed tables organized by model and year.

(Note: This section would include numerous tables with detailed torque specifications for various Harley-Davidson models and years. Due to the sheer volume of data and the need for accuracy, this information cannot be provided comprehensively in this example. The ebook would contain these comprehensive tables.)

This section would contain extensive tables meticulously organized by Harley-Davidson model year, component (e.g., engine, transmission, wheels, primary drive, cylinder heads, exhaust system), and specific fastener. Each table would clearly state the torque specification in both ft-lbs and Nm.

Chapter 4: Troubleshooting Common Torque-Related Problems

Even with careful attention to detail, problems can arise. Understanding how to troubleshoot them is crucial:

Stripped threads: This is often caused by over-tightening. The solution might involve using a helicoil, thread repair kit, or replacing the damaged part.

Loose fasteners: Under-tightening is the culprit here. Re-tighten to the correct torque specification. Inspect the fastener and its threads for damage.

Torque wrench inaccuracies: Regular calibration is essential to avoid mistakes. If you suspect your wrench is malfunctioning, get it checked by a professional.

Incorrect fastener type: Using the wrong type of bolt or nut can lead to problems. Always consult your service manual for the correct hardware.

Addressing these issues promptly prevents further damage and ensures the safe operation of your Harley.

Chapter 5: Beyond Torque: Essential Harley Maintenance Tips

Proper torque is only one aspect of effective Harley maintenance. Consider these supplementary tips:

Regular inspections: Regularly check for loose fasteners, especially after rides on rough terrain.

Proper lubrication: Using appropriate lubricants on threads and components prevents seizing and makes tightening easier.

Cleanliness: Keep your bike clean and free of debris to prevent corrosion and other issues.

Professional assistance: If unsure about any procedure, consult a qualified Harley-Davidson mechanic.

Conclusion: Maintaining Your Harley with Confidence

Mastering the art of applying correct torque significantly enhances your ability to maintain your Harley-Davidson. This ebook provides a foundation of knowledge and resources to ensure safe and effective maintenance. By following the guidelines and tables within, you'll be able to keep your Harley running smoothly and reliably for years to come. Remember, regular maintenance, coupled with accurate torque application, will protect your investment and provide you with many years of enjoyment on the open road.

FAQs

1. What happens if I over-tighten a bolt on my Harley? Over-tightening can strip the threads, damage the bolt or the part it's fastening, and lead to costly repairs.
2. What happens if I under-tighten a bolt? Under-tightening can result in loose parts, vibrations, and potential component failure, potentially causing safety hazards.
3. What type of torque wrench should I use? A click-type or digital torque wrench is recommended for accuracy.
4. How often should I calibrate my torque wrench? At least annually, or as recommended by the manufacturer.
5. Where can I find the torque specifications for my specific Harley model? Your Harley-Davidson service manual is the primary source.
6. What units are torque specifications typically given in? Foot-pounds (ft-lbs) and Newton-meters (Nm) are commonly used.
7. Can I use a standard wrench instead of a torque wrench? No, using a standard wrench risks over-tightening or under-tightening, leading to potential damage.
8. What should I do if I strip a bolt? You may need to use a helicoil, thread repair kit, or replace the damaged part. Consult a mechanic if unsure.
9. Are there any online resources besides service manuals for torque specifications? While some online forums offer information, the service manual is the most reliable source to prevent misinformation.

Related Articles:

1. Harley-Davidson Engine Torque Specs: A deep dive into engine-specific torque values.
2. Harley-Davidson Transmission Torque Specs: Focusing on transmission components and their torque requirements.
3. Harley-Davidson Wheel Torque Specs: Detailed information on proper wheel nut torque for various models.
4. Understanding Torque Wrenches for Harley Maintenance: An explanation of different torque wrench types and how to use them.
5. Common Harley-Davidson Maintenance Mistakes: Identifying and avoiding common errors during maintenance.
6. Harley-Davidson Service Manual Guide: A comprehensive guide on how to use and interpret your service manual.
7. Troubleshooting Harley-Davidson Engine Problems: Addressing common engine issues and their solutions.
8. Harley-Davidson Primary Drive Maintenance: A guide to maintaining the primary drive system, including torque specifications.
9. Preventative Maintenance for Your Harley-Davidson: A comprehensive guide to preventative maintenance practices to keep your Harley running smoothly.

harley torque specs: How to Build a Harley-Davidson Torque Monster Bill Rook, 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.

harley torque specs: Harley-Davidson Sportster Performance Handbook, 3rd Edition Buzz Buzzelli, 'Sportster' conjures an image of a fire-breathing mechanical beast scorching the world's tarmac. With advice on the proper mechanical massaging, and diagrams and photos, this handbook shows how the Sportster can be transformed into a superbike. It includes a history of the Sportster from its birth in 1957.

harley torque specs: The Complete Harley-Davidson Tod Rafferty, 1997 Arranged chronologically, presents a history of every major motorcycle model produced by the legendary company since 1903.

harley torque specs: Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Donny Petersen, 2011-01-20 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.

harley torque specs: The Cars of Harley Earl David W Temple, 2016-05-16 At 6-foot, 3-inches tall, Harley Earl was an imposing figure, but his true stature lies in his towering talent for automotive design and styling. Over his 50-year career, he created as well as collaborated on the most innovative, bold, technologically advanced cars made by General Motors. As a titan of American auto design, the cars he helped create are still celebrated today. And as an enduring legacy, he inspired a generation of engineers, designers, and stylists. Veteran automotive historian David W. Temple has researched and unearthed the complete story of Harley Earl's cars, his notable design achievements, and many accolades. Working as a coachbuilder at his father's Earl Automotive Works in Hollywood, California, the young Earl learned his trade. After styling the 1927 LaSalle for GM president Alfred P. Sloan, Earl rose to prominence and ran the newly created department of Art and Color. Automobile design stagnated during the Depression and World War II, but the number of his contributions to the automotive world in the 1950s is staggering. When the jet age hit, he fully embraced aviation design and infused it into GM cars. The Buick Y-Job and GM Le Sabre featured many firsts in automotive design and hardware. The Y-Job's fender extensions trailing over the doors, disappearing headlamps, flush door handles, a metal cover over the convertible top were a few innovations. When General Motors needed to show off its cars and technology, Harley Earl-designed cars were the stars of the Motorama show that toured the country from 1949 to 1961. He led the team that created the 1953 Corvette, and this iconic American sports car is still going strong today. He was involved in the creation of the 1955-1957 Chevy Bel Air, otherwise known as the Tri-Five Chevy. Harley Earl's drive toward bold and innovative design spurred American car design during the mid-twentieth century. His distinctive designs defined the 1950s finned cars and set American automotive design on the path it has followed into the modern era. With this in-depth examination, you learn the inside story of these remarkable cars and the man behind them. It's an essential addition to any automotive library.

harley torque specs: 101 Harley-Davidson Twin Cam Performance Projects Chris Maida Mark Zimmerman, 2005

harley torque specs: Riding in the Zone Ken Condon, 2019-10-15 Riding motorcycles is fun, but author Ken Condon maintains that there is a state of consciousness to be achieved beyond the simple pleasure of riding down the road. Riding in the Zone helps riders find that state of being. It's the experience of being physically and mentally present in the moment, where every sense is sharply attuned to the ride. Your mind becomes silent to the chatter of daily life, and everyday problems seem to dissolve. You feel a deeper appreciation for life. Your body responds to this state of being

with precise, fluid movements, you feel in balance, your muscles are relaxed, and it seems as though every input you make is an expression of mastery. This is the Zone. Condon identifies all of the factors that affect entering the Zone and addresses each one individually, from the development of awareness and mental skills to mastering physical control of the motorcycle. At the end of each chapter are drills designed to transform the book's ideas into solid, practical riding skills. Riding in the Zone takes riders to the next level in their skill set.

harley torque specs: 101 Harley-Davidson Performand Projects Kenna Love, Kip Woodring, 1998 Put a veteran mechanic on your bookshelf. From simple 15-minute jobs such as lubing cables and bolting on new air cleaners to more advanced tasks such as cam changes and swapping heads, this how-to guide offers carefully selected projects you can do in a weekend. Color photographs guide you step-by-step through each performance project. Explains why each project should be done and what performance gains you can expect.

harley torque specs: Harley-Davidson Service-repair Handbook, Sportster Series, 1959-1977 , 1977

harley torque specs: *Harley-Davidson Twin Cam 88, 96 and 103 Models '99 to '10* Editors of Haynes Manuals, 2014-08-01 Complete coverage for your Harley-Davidson Twin Cam 88, 96 and 103 Models 1999 to 2010 Routine Maintenance and servicing Tune-up procedures Engine, clutch and transmission repair Cooling system Fuel and exhaust Ignition and electrical systems Brakes, wheels and tires Steering, suspension and final drive Frame and bodywork Wiring diagrams Reference Section With a Haynes manual, you can do it yourself...from simple maintenance to basic repairs. Haynes writes every book based on a complete teardown of the motorcycle. We learn the best ways to do a job and that makes it quicker, easier and cheaper for you. Our books have clear instructions and hundreds of photographs that show each step. Whether you're a beginner or a pro, you can save big with Haynes! Step-by-step procedures Easy-to-follow photos Complete troubleshooting section Valuable short cuts Model history and pre-ride checks in color Color spark plug diagnosis and wiring diagrams Tools and workshop tips section in color

harley torque specs: Harley-Davidson FLH/FLT Touring Series 2010-2013 Editors of Clymer Manuals, 2016-03-01 FLHTC Electra Glide Classic (2010-2013) FLHTCU Ultra Classic Electra Glide (2010-2013) FLHTK Electra Glide Ultra Limited (2010-2013) FLHR Road King (2010-2013) FLHRC Road King Classic (2010-2013) FLTRX Road Glide Custom (2010-2013) FLTRU Road Glide Ultra (2011-2013) FLHX Street Glide (2010-2013) FLHTCUSE5 CVO Ultra Classic Electra Glide (2010) FLHTCUSE6 CVO Ultra Classic Electra Glide (2011) FLHTCUSE7 CVO Ultra Classic Electra Glide (2012) FLHTCUSE8 CVO Ultra Classic Electra Glide (2013) FLHXSE CVO Street Glide (2010) FLHXSE2 CVO Street Glide (2011) FLHXSE3 CVO Street Glide (2012) FLTRUSE CVO Road Glide Ultra (2011, 2013) FLTRXSE CVO Road Glide Custom (2012) FLTRXSE2 CVO Road Glide Custom (2013) FLHRSE5 CVO Road King Custom (2013) TROUBLESHOOTING LUBRICATION, MAINTENANCE AND TUNE-UP ENGINE TOP END ENGINE LOWER END CLUTCH AND EXTERNAL SHIFT MECHANISM TRANSMISSION AND INTERNAL SHIFT MECHANISM FUEL, EMISSION CONTROL AND EXHAUST SYSTEMS ELECTRICAL SYSTEM COOLING SYSTEM WHEELS, TIRES AND DRIVE CHAIN FRONT SUSPENSION AND STEERING REAR SUSPENSION BRAKES BODY AND FRAME COLOR WIRING DIAGRAMS

harley torque specs: 101 Harley-Davidson Evolution Performance Projects Kip Woodring Kenna Love, Keep a veteran mechanic at hand with this updated version of the best-selling manual for Harley-Davidson owners who want to hop up their machines. Created with the weekend mechanic in mind, this comprehensive, illustrated guide clearly and concisely outlines 101 projects that will improve the power, handling, and ride of Evolution-engined Harley-Davidson motorcycles. Drawing on years of hopping up and living with Evo-engined Big Twins and Sportsters, author and Harley-Davidson technician Kip Woodring provides step-by-step instructions for projects ranging from the basics of simple maintenance to the finer points of altering gearing, upgrading ignition, and making the changes that make a bike unique.

harley torque specs: *What the F* Benjamin K. Bergen, 2016-09-13 It may be starred, beeped,

and censored -- yet profanity is so appealing that we can't stop using it. In the funniest, clearest study to date, Benjamin Bergen explains why, and what that tells us about our language and brains. Nearly everyone swears-whether it's over a few too many drinks, in reaction to a stubbed toe, or in flagrante delicto. And yet, we sit idly by as words are banned from television and censored in books. We insist that people excise profanity from their vocabularies and we punish children for yelling the very same dirty words that we'll mutter in relief seconds after they fall asleep. Swearing, it seems, is an intimate part of us that we have decided to selectively deny. That's a damn shame. Swearing is useful. It can be funny, cathartic, or emotionally arousing. As linguist and cognitive scientist Benjamin K. Bergen shows us, it also opens a new window onto how our brains process language and why languages vary around the world and over time. In this groundbreaking yet ebullient romp through the linguistic muck, Bergen answers intriguing questions: How can patients left otherwise speechless after a stroke still shout Goddamn! when they get upset? When did a cock grow to be more than merely a rooster? Why is crap vulgar when poo is just childish? Do slurs make you treat people differently? Why is the first word that Samoan children say not mommy but eat shit? And why do we extend a middle finger to flip someone the bird? Smart as hell and funny as fuck, *What the F* is mandatory reading for anyone who wants to know how and why we swear.

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harley torque specs: Donny's Unauthorized Technical Guide to Harley Davidson 1936 to Present Donny Petersen, 2008-12-30 Donny is the Winner of the 2012 International Book Awards. Donny Petersen offers the real deal in performancing 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 performancing 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 performancing 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.

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1936-1964 Rick Schunk, 2012-10-21 DIVWhen it comes to collector motorcycles, none hold the allure of the classic Harley-Davidson Big Twins built from 1936 to 1964. But owning and maintaining these tempermental machines provides endless challenges. Even the most pristine, restored example needs a tremendous amount of care, maintenance, and repair. The rebuilding and restoring of these machines is not so much a defined task as a never-ending process. This book serves to guide owners through that process./div Beginning with a practical section on understanding, choosing, and purchasing a classic Harley, this book focuses on the nuts and bolts of classic Harley ownership. Through step-by-step photography and thoughtful, informative instruction, the reader will learn how to disassemble a chassis, rebuild a fork, lace a wheel, and paint the major parts for any restoration. It also provides thorough instruction on repairing, overhauling, and restoring all major components, such as the engine, transmission, and electrical system.

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amazing motorcycles await. Driving down a country road, a flash of chrome catches your eye as you pass an old farmstead. Next time you roll by, you slow down and focus on a shed behind the house. Could that be? Good lord, it is! Hard on the brakes, quick reverse, and pull in the drive. Yep, it's a vintage Triumph Bonneville peering forlornly from beneath a tattered cover. You've just begun the journey that fuels the dreams of every motorcycle collector: the long-forgotten machine, rediscovered. The Harley in the Barn offers forty-plus tales of lost Nortons, hidden Hondas, dormant Indians, and busted BSAs, all squirreled away from prying eyes but found by lucky collectors just like you. Author Tom Cotter is not only a barn-find master, he's also master of discovering the collectors with the best stories and the most outlandish finds. In *The Harley in the Barn*, all those great stories are told. If you can't pass a padlocked garage without wondering if there's a great old bike stashed inside, this is your book. Hell, this is your life.

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- Pack the perfect bug-out bag for the first 72 hours
- Find food, water, and other necessities outside of civilization

Bug Out also includes detailed information on the best escape locations everywhere in the U.S., from the Pacific and Atlantic coasts to the Rocky Mountains, the Desert Southwest, the Heartland, the Gulf Coast, the Appalachians, and the Lakes and Big Woods of the North.

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