

# Harley davidson flh service manual 1987

**harley davidson flh service manual 1987** is an essential resource for enthusiasts, mechanics, and owners looking to maintain or restore their classic Harley Davidson FLH models from 1987. This comprehensive manual provides detailed technical information, step-by-step procedures, and troubleshooting tips to ensure optimal performance and longevity of the motorcycle. Whether you're performing routine maintenance, major repairs, or restorations, having access to the correct service manual is crucial for safety, accuracy, and efficiency. In this article, we will explore the key features of the 1987 Harley Davidson FLH service manual, its importance, how to utilize it effectively, and where to find authentic copies.

## Overview of the 1987 Harley Davidson FLH Model

Before diving into the specifics of the service manual, it's important to understand the context of the 1987 Harley Davidson FLH. The FLH series, often referred to as the Electra Glide, was renowned for its touring capabilities, comfort, and classic Harley styling. The 1987 model year introduced several updates, but maintained the core features that made the FLH popular among long-distance riders.

Key features of the 1987 Harley Davidson FLH include:

- Engine: 80 cubic inch (1340cc) V-twin engine
- Transmission: 4-speed manual
- Fuel system: Electronic fuel injection (EFI) introduced in later models, but 1987 models primarily used carburetors
- Design: Full-dress touring motorcycle with fairings, large saddlebags, and comfortable seating
- Electrical system: 12-volt system with upgraded wiring harnesses

Understanding the specifications of the 1987 FLH helps in identifying the correct procedures and parts in the service manual.

## Importance of the Harley Davidson FLH Service Manual 1987

The service manual serves as an authoritative guide for maintaining and repairing the 1987 FLH model. Its significance includes:

- Accurate Technical Data: Detailed specifications, wiring diagrams, and torque settings.

- Step-by-Step Procedures: Clear instructions for disassembly, repair, and reassembly.
- Troubleshooting Guides: Diagnostic tips to identify and resolve common issues.
- Parts Identification: Explains part numbers, replacements, and compatibility.
- Safety Guidelines: Ensures repairs are conducted safely, reducing risk of injury.

Having this manual ensures that repairs are performed correctly, saving time and money while preserving the motorcycle's value.

## Key Sections of the 1987 Harley Davidson FLH Service Manual

The manual is organized into several critical sections designed to cover all aspects of motorcycle maintenance. Below are the main sections you will find:

### 1. General Information and Specifications

Includes:

- Overall motorcycle specifications
- Fluid capacities
- Torque specifications
- Maintenance schedules

### 2. Engine Maintenance and Repair

Details on:

- Engine removal and installation
- Valve adjustments
- Carburetor tuning and cleaning
- Clutch servicing
- Piston, cylinder, and gasket replacements

### 3. Electrical System

Covers:

- Wiring diagrams
- Battery maintenance

- Starter and alternator troubleshooting
- Lighting and instrumentation repairs

## 4. Fuel System

Includes:

- Carburetor removal and cleaning
- Fuel lines inspection
- Fuel pump (if applicable)

## 5. Transmission and Drive System

Details on:

- Gearbox maintenance
- Drive belt or shaft inspection
- Clutch assembly

## 6. Suspension and Frame

Covers:

- Front and rear suspension adjustment
- Frame inspections
- Wheel alignment

## 7. Brake System

Includes:

- Brake pad replacement
- Hydraulic fluid bleeding
- Brake drum/disc inspection

## 8. Body and Accessories

Details on:

- Fairings and seating
- Luggage rack maintenance
- Electrical accessories

## How to Use the 1987 Harley Davidson FLH Service Manual Effectively

To maximize the benefits of the service manual, consider the following tips:

- Familiarize Yourself with the Manual's Layout
  - Use the table of contents for quick navigation.
  - Refer to the index for specific topics.
- Follow Step-by-Step Procedures Carefully
  - Read instructions thoroughly before starting.
  - Gather all necessary tools and parts beforehand.
- Use Correct Tools and Parts
  - Refer to torque specifications for fasteners.
  - Use genuine or compatible replacement parts.
- Conduct Safety Checks
  - Ensure the motorcycle is on a stable surface.
  - Disconnect the battery when working on electrical components.
- Keep the Manual Accessible

- Store it in a dry, organized place.
- Consider digital copies for easy search and reference.
- Cross-reference with Other Resources
- Use online forums, repair videos, and Harley Davidson community groups for additional guidance.

## Where to Find Authentic Harley Davidson FLH Service Manuals 1987

Locating a genuine service manual ensures access to accurate and comprehensive information. Here are some reliable sources:

- Harley Davidson Dealerships
- Official sources often provide printed or digital manuals.
- Some dealerships offer repair guides as part of their service packages.
- Online Marketplaces
- Platforms like eBay, Amazon, and Etsy feature original or reproduction manuals.
- Verify seller credibility and manual authenticity before purchase.
- Harley Davidson Official Website
- The official Harley Davidson website offers downloadable manuals and parts catalogs.
- Subscription services may provide access to multiple manuals.
- Specialty Motorcycle Bookstores
- Stores specializing in motorcycle literature often carry vintage manuals.

- Search for ?Harley Davidson service manual 1987? or similar keywords.
- Online Forums and Communities
  - Harley Davidson owner groups often share resources and links.
  - Websites like HDForums.com and Harley Riders.com can be valuable.

## Benefits of Using a Genuine Service Manual for Your 1987 Harley Davidson FLH

Utilizing an authentic manual offers numerous advantages:

- Accuracy: Ensures procedures adhere to manufacturer standards.
- Safety: Reduces the risk of improper repairs that could cause accidents.
- Longevity: Proper maintenance prolongs the lifespan of your motorcycle.
- Resale Value: Well-maintained bikes with documented service histories are more valuable.
- Knowledge Expansion: Enhances understanding of your motorcycle's mechanics.

## Conclusion

The **harley davidson flh service manual 1987** is an invaluable tool for maintaining the classic Harley Davidson FLH from 1987. Its detailed instructions, specifications, and troubleshooting tips empower owners and mechanics to perform repairs confidently and accurately. Whether you're restoring a vintage bike, performing routine maintenance, or troubleshooting electrical issues, having access to this manual will streamline the process and ensure your motorcycle remains in peak condition.

Remember to seek out authentic copies from reliable sources to ensure you have the most accurate and comprehensive information. Proper use of the service manual not only preserves the integrity of your Harley Davidson but also enhances your riding experience for years to come.

### Harley Davidson FLH Service Manual 1987: A Comprehensive Guide for Enthusiasts and Mechanics

The Harley Davidson FLH series from 1987 remains a significant milestone in the marque's storied history, epitomizing the classic cruiser aesthetic combined with durable engineering. For owners, mechanics, and restoration enthusiasts, the Harley Davidson FLH Service Manual 1987 serves as an indispensable resource, providing detailed instructions, specifications, and troubleshooting

procedures vital for maintaining or restoring these iconic motorcycles. This article delves into the importance of the manual, its contents, key maintenance aspects, and how it continues to serve as a trusted guide decades after its original publication.

## The Significance of the 1987 Harley Davidson FLH Service Manual

The 1987 Harley Davidson FLH, also known as the Electra Glide, marked a pivotal point during a period characterized by technological evolution and increased rider comfort. As with any vintage motorcycle, proper maintenance hinges on access to precise technical information. The service manual for this model is more than just a repair guide; it embodies the manufacturer's official procedures, safety recommendations, and specifications.

Historically, the manual offers:

- Authentic specifications: Engine torque settings, electrical system details, and lubrication points.
- Step-by-step repair procedures: From routine oil changes to complex engine rebuilds.
- Troubleshooting guides: Diagnosing issues with carburetors, electrical faults, or transmission problems.
- Safety protocols: Ensuring repairs are conducted without risking rider or mechanic safety.

For vintage Harley Davidson owners, the manual is also a key to preserving the motorcycle's originality and performance, making it a prized possession in the restoration community.

## Overview of the Harley Davidson FLH 1987 Model

Before diving into the manual's content, understanding the 1987 FLH model itself provides context for its maintenance needs.

Key Features and Specifications:

- Engine: 80 cubic inches (1340cc) V-twin, air-cooled
- Power Output: Approximately 60 horsepower
- Transmission: 4-speed manual
- Fuel System: Constant vacuum carburetor
- Brakes: Drum brakes in the rear, front disc brake
- Electrical System: 12V charging system with battery
- Design: Classic touring cruiser with full fairing, large saddlebags, and comfortable seating

This combination of robust engineering and touring comfort necessitated a detailed manual to keep

the motorcycle performing at its peak.

## Contents of the Harley Davidson FLH Service Manual 1987

The manual is structured to guide both seasoned mechanics and DIY enthusiasts through the maintenance and repair process. Its comprehensive scope typically includes:

- General Information
  
- Motorcycle identification and specifications
- Tools and special equipment needed
- Safety precautions
  
- Engine
  - Disassembly and reassembly procedures
  - Cylinder head and piston servicing
  - Valve adjustment and timing
  - Carburetor cleaning and tuning
  - Lubrication points and oil change procedures
  
- Electrical System
  - Wiring diagrams
  - Battery maintenance
  - Ignition system troubleshooting
  - Lighting and indicator servicing
  
- Transmission and Clutch
  - Gearbox disassembly
  - Clutch adjustment and replacement
  - Shift linkage inspection

- Drive System
  
- Final drive maintenance
- Belt or chain tensioning (if applicable)
  
- Brakes
  
- Brake pad replacement
- Hydraulic fluid bleeding
- Brake drum servicing
  
- Chassis and Suspension
  
- Front fork overhaul
- Rear shock absorber servicing
- Frame inspection
  
- Fuel System
  
- Fuel tank removal and cleaning
- Fuel line inspection
- Carburetor jetting and tuning
  
- Final Checks and Troubleshooting
  
- Common issues and fixes
- Diagnostic procedures
- Preventative maintenance schedules

This detailed structure ensures that all aspects of the motorcycle are covered, allowing for comprehensive servicing.

## Key Maintenance Procedures Detailed in the Manual

### Engine Maintenance and Troubleshooting

The engine, being the heart of any motorcycle, receives meticulous attention in the manual. It provides detailed torque specifications for cylinder heads and crankcases, along with step-by-step instructions for:

- Replacing piston rings
- Servicing valves and timing adjustments
- Checking and adjusting carburetor settings for optimal performance
- Performing compression tests to assess engine health

### Electrical System Diagnostics

The 1987 FLH's electrical system, while relatively straightforward, can develop issues over time. The manual offers:

- Wiring color codes and diagrams
- Testing procedures for the alternator and regulator
- Battery charging and replacement instructions
- Troubleshooting tips for ignition problems, including coil and spark plug testing

### Brake System Servicing

Given the safety importance, the manual emphasizes proper brake maintenance:

- Replacing brake pads and shoes
- Bleeding hydraulic brake lines
- Adjusting brake drum clearance for effective stopping power

### Suspension and Frame Care

To ensure a comfortable ride and structural integrity, the manual covers:

- Fork oil replacement and seal replacement
- Rear shocks inspection and adjustment

- Frame inspection for cracks or rust

### Why the Manual Remains Relevant Today

Despite its age, the Harley Davidson FLH Service Manual 1987 remains highly relevant for several reasons:

- **Authentic Specifications:** Original torque settings, electrical wiring, and component specifications ensure restorations and repairs stay true to factory standards.
- **DIY Maintenance:** Many vintage motorcycle enthusiasts prefer to perform their own repairs, and the manual provides the guidance necessary to do so safely and correctly.
- **Parts Compatibility:** Understanding original component specifications helps in sourcing compatible parts, whether vintage OEM or aftermarket replacements.
- **Restoration Projects:** For collectors restoring a 1987 FLH, the manual is invaluable for returning the motorcycle to its original condition.

Today, digital copies and scanned versions of the manual are often circulated within enthusiast communities, keeping this vintage guide accessible.

### Sourcing the 1987 Harley Davidson FLH Service Manual

Finding a genuine or high-quality reproduction of the manual can be accomplished through:

- **Official Harley Davidson Dealerships:** Some may offer vintage manuals or can direct to authorized sources.
- **Online Marketplaces:** eBay, Amazon, and specialized vintage motorcycle parts sites often list original or reproduction manuals.
- **Motorcycle Clubs and Forums:** Communities such as Harley Davidson enthusiast forums or vintage motorcycle clubs frequently share resources or digitized manuals.
- **Libraries and Archives:** Certain technical libraries or motorcycle museums may hold copies for research purposes.

When acquiring a manual, verifying its authenticity and completeness ensures that the information is reliable and comprehensive.

### The Future of Vintage Harley Davidson Maintenance

As vintage Harley Davidson models like the 1987 FLH grow older, maintaining these machines becomes both a challenge and a passion. The Harley Davidson FLH Service Manual 1987

embodies a bridge between the original engineering and modern restoration techniques.

Owners and mechanics increasingly rely on community knowledge, digitized manuals, and aftermarket resources to keep these classics on the road. Moreover, the preservation of such manuals ensures that future generations can appreciate and maintain these legendary motorcycles.

## Conclusion

The Harley Davidson FLH Service Manual 1987 is more than just a technical document; it is a gateway into the meticulous craftsmanship and engineering that define Harley Davidson's touring heritage. For owners, restorers, and enthusiasts, this manual offers the detailed knowledge necessary to keep the 1987 FLH running smoothly, safely, and in accordance with factory standards. As vintage Harley Davidson motorcycles continue to captivate riders worldwide, the importance of authentic service documentation remains paramount—ensuring these timeless machines endure for generations to come.

**Question** Where can I find the official Harley Davidson FLH 1987 service manual? The official Harley Davidson FLH 1987 service manual can often be found through authorized Harley Davidson dealerships, online marketplaces like eBay, or specialized motorcycle manual retailers. **Answer** What are the key maintenance points covered in the 1987 FLH service manual? The manual includes detailed instructions on engine repair, transmission, electrical system, suspension, brakes, and routine maintenance procedures specific to the 1987 FLH model. Is the 1987 Harley Davidson FLH service manual available in digital format? Yes, digital versions of the 1987 FLH service manual are available from various online sources, including PDF downloads from motorcycle manual websites or forums. How detailed is the 1987 FLH service manual for DIY repairs? The manual provides comprehensive step-by-step instructions, diagrams, and torque specifications, making it suitable for both professional technicians and experienced DIY enthusiasts. Are there common issues addressed in the 1987 FLH service manual? Yes, common issues such as electrical wiring problems, carburetor adjustments, and clutch adjustments are covered, along with troubleshooting tips. Can I use the 1987 FLH service manual for modifications or customizations? While the manual primarily covers standard maintenance and repairs, it can also be useful for understanding the bike's systems when performing modifications or customizations. What tools are recommended when following the 1987 FLH service manual? The manual recommends standard motorcycle repair tools, including socket sets, screwdrivers, torque wrenches, and specialty tools for specific components like the primary drive or clutch. Is it necessary to have prior mechanical experience to use the 1987 FLH service manual? Some mechanical knowledge is helpful, but the manual's detailed diagrams and instructions make it accessible for motivated DIYers with basic mechanical skills. How does the 1987 Harley Davidson FLH service manual compare to later models? The 1987 manual is specific to that year's design and components; later models may have different systems or updates, so always refer to the correct manual for your bike. Are there online communities or forums for 1987 Harley Davidson FLH owners and repair help? Yes, forums like Harley Davidson

Forums, Reddit's r/motorcycles, and dedicated vintage Harley groups often share manuals, tips, and advice for 1987 FLH owners.

**Related keywords:** Harley Davidson, FLH, service manual, 1987, motorcycle repair, touring bike, engine maintenance, electrical system, parts catalog, repair guide

## Workshop manual1987 harley davidson softail

**workshop manual1987 harley davidson softail** is an invaluable resource for Harley-Davidson enthusiasts, mechanics, and vintage motorcycle collectors who own or restore a 1987 Harley Davidson Softail. This comprehensive guide provides detailed instructions, diagrams, and specifications necessary for maintenance, repairs, and restoration of this iconic motorcycle model. Whether you're a seasoned mechanic or a passionate hobbyist, having access to the correct workshop manual ensures that work is performed accurately, efficiently, and safely. In this article, we will explore everything you need to know about the 1987 Harley Davidson Softail workshop manual, including its features, how to use it effectively, common maintenance procedures, troubleshooting tips, and where to find authentic copies.

## Understanding the 1987 Harley Davidson Softail

The 1987 Harley Davidson Softail marked a significant point in Harley's history, combining classic styling with modern engineering. Known for its clean lines and hidden suspension system, the Softail offered riders a smooth and comfortable ride reminiscent of the rigid-frame models but with improved handling.

## Key Features of the 1987 Harley Davidson Softail

- Engine: Evolution V-Twin, 1340cc (80 cubic inches)
- Transmission: 4-speed constant mesh
- Suspension: Hidden rear shock absorbers, giving the appearance of a rigid frame
- Frame: Steel, with a distinctive Softail design
- Brakes: Drum brakes at the front and rear
- Design: Classic Harley styling with modern components for the era
- Production Period: 1984-1990, with 1987 being a notable year for updates and refinements

Understanding these features helps in navigating the workshop manual effectively, as it contains specific information tailored to the 1987 model's components.

## What is Included in the 1987 Harley Davidson Softail Workshop Manual?

The workshop manual for the 1987 Harley Davidson Softail is a detailed document that covers every aspect of the motorcycle's maintenance and repair. It is an essential tool for both professional mechanics and dedicated DIY enthusiasts.

### Major Sections of the Manual

- **General Information:** Specifications, safe working procedures, and general maintenance tips.
- **Engine:** Disassembly, assembly, troubleshooting, and tuning procedures.
- **Transmission:** Repair and adjustment instructions for the gearbox.
- **Electrical System:** Wiring diagrams, lighting, ignition, and charging system details.
- **Chassis and Suspension:** Frame, forks, shocks, and wheel assembly instructions.
- **Brakes and Wheels:** Maintenance, adjustment, and repair procedures.
- **Fuel System:** Carburetor tuning, fuel lines, and related components.
- **Accessories and Optional Equipment:** Additional parts, customization options, and installation guides.

This comprehensive content ensures that every component and system of the 1987 Softail can be maintained or repaired with confidence.

### Benefits of Using the Original Workshop Manual

Using the original workshop manual for your 1987 Harley Davidson Softail offers numerous advantages:

#### Accuracy and Reliability

- Contains factory-recommended procedures and specifications.
- Includes detailed diagrams and illustrations for precise repairs.
- Ensures compatibility with the specific year and model.

#### Cost-Effective Maintenance

- Guides you through troubleshooting, reducing unnecessary parts replacement.
- Helps perform repairs correctly the first time, saving money.

## Enhanced Safety

- Provides safety warnings and precautions to prevent accidents.
- Ensures repairs are performed according to manufacturer standards.

## Preservation of Motorcycle Value

- Maintains the bike's original condition.
- Serves as a valuable document for resale or restoration projects.

## How to Use the 1987 Harley Davidson Softail Workshop Manual Effectively

Maximizing the utility of your workshop manual involves understanding how to navigate and interpret its contents.

### Step-by-Step Approach

- **Identify the Issue:** Clearly define the problem or maintenance task.
- **Consult the Manual:** Use the table of contents or index to locate relevant sections.
- **Gather Tools and Parts:** Prepare all necessary tools and replacement parts as specified.
- **Follow Procedures Step-by-Step:** Adhere to the instructions, diagrams, and safety warnings.
- **Refer to Diagrams and Tables:** Use detailed illustrations for wiring, assembly, and component placement.
- **Double-Check Your Work:** Confirm adjustments and alignments after completing repairs.

### Tips for Effective Use

- Keep the manual clean and protected from damage.
- Highlight or annotate important sections for quick reference.
- Use the manual in conjunction with service tips from experienced Harley mechanics.
- Supplement with online forums and community groups for additional insights.

## Common Maintenance Procedures Covered in the Manual

The 1987 Harley Davidson Softail manual provides step-by-step instructions for routine maintenance tasks, essential for keeping your motorcycle in top condition.

## 1. Oil Change and Lubrication

- Details on draining and refilling engine oil.
- Specifications for oil type and quantity.
- Lubrication points for drive chains, cables, and other moving parts.

## 2. Spark Plug Inspection and Replacement

- Proper gap settings.
- Troubleshooting misfires and poor performance.

## 3. Valve Adjustment

- Procedures for checking and setting valve clearances.
- Tools required and timing specifications.

## 4. Carburetor Tuning

- Correct mixture settings.
- Cleaning procedures and jet replacement.

## 5. Brake System Maintenance

- Adjustments for drum brakes.
- Inspection and replacement of brake shoes.

## 6. Electrical System Checks

- Battery maintenance.
- Troubleshooting wiring issues.

## 7. Tire Inspection and Replacement

- Proper inflation pressures.

- Alignment and balancing tips.

## Troubleshooting Common Issues Using the Manual

The manual is a crucial resource for diagnosing and fixing issues that arise with your 1987 Harley Davidson Softail.

### Engine Problems

- Hard starting or stalling.
- Loss of power.
- Excessive exhaust smoke.

Troubleshooting Steps:

- Check spark plugs and ignition timing.
- Inspect carburetor settings.
- Verify fuel flow and filters.
- Review compression and valve clearances.

### Electrical Faults

- Dead battery or charging issues.
- Lights not functioning.
- Wiring shorts.

Troubleshooting Steps:

- Test alternator output.
- Inspect wiring harnesses.
- Check fuses and relays.

### Suspension and Frame Concerns

- Unusual handling or noise.
- Frame cracks or damage.

### Troubleshooting Steps:

- Examine shocks and mounting points.
- Ensure proper torque on frame bolts.
- Replace worn or damaged components.

## Where to Find Authentic 1987 Harley Davidson Softail Workshop Manuals

For best results, always use authentic or high-quality reproductions of the original workshop manual.

### Sources to Purchase the Manual

- **Harley-Davidson Dealerships:** Authorized outlets may still have original manuals or reproductions.
- **Online Marketplaces:** Websites like eBay, Amazon, and specialized vintage motorcycle parts stores.
- **Harley Davidson Official Website:** Sometimes offers digital copies or reprints.
- **Vintage Motorcycle Forums and Clubs:** Community members often trade or sell manuals.

### Tips for Choosing a Quality Manual

- Verify the publication year and model compatibility.
- Look for manuals with clear diagrams and detailed instructions.
- Prefer printed manuals with durable binding for frequent use.
- Consider digital PDFs for quick searches and convenience.

## Conclusion

The **workshop manual 1987 harley davidson softail** is an essential resource for maintaining, repairing, and restoring this classic motorcycle. Its detailed instructions, diagrams, and specifications empower owners and mechanics to perform high-quality work that preserves the bike's integrity and value. Whether you're undertaking routine maintenance or tackling complex repairs, having the original manual ensures you follow factory standards and safety protocols. Investing in an authentic manual not only makes repairs more straightforward but also enhances your understanding of your Harley Davidson Softail, enabling you to enjoy your vintage motorcycle for years to come. Remember, proper maintenance based on accurate information is key to keeping your 1987 Softail running smoothly and looking great on the road.

## Workshop Manual 1987 Harley Davidson Softail: An In-Depth Investigation

The Harley Davidson Softail lineup has long been a staple of American motorcycle culture, representing a blend of classic design and modern engineering. Among the most iconic models is the 1987 Harley Davidson Softail, a motorcycle that marked a pivotal point in Harley's history, blending vintage aesthetics with innovative features for its time. For owners, restorers, and mechanics alike, understanding the intricacies of this model is essential, hence the significance of the workshop manual 1987 Harley Davidson Softail. This investigative review delves into the manual's content, its accuracy, usability, and overall value, providing a comprehensive guide for enthusiasts and professionals.

### The Significance of the 1987 Harley Davidson Softail

Before examining the workshop manual, it's important to contextualize the 1987 Harley Davidson Softail. Released during a period of significant change for Harley, the 1987 model incorporated advancements in engine design, chassis stability, and maintenance procedures. Its design maintained the vintage "hardtail" look but with refined engineering, making it a favorite among collectors and riders seeking a nostalgic yet reliable motorcycle.

Key features of the 1987 Softail include:

- Engine: Evolution of the Shovelhead V-twin, with improvements in performance and durability.
- Frame: Hidden rear suspension system to mimic the hardtail aesthetic while offering ride comfort.
- Transmission: 4-speed, designed for smooth power delivery.
- Braking System: Drum brakes, standard for the era, with some optional upgrades.

Given its complexity and vintage status, a well-structured workshop manual is invaluable for maintenance, repairs, and restoration projects.

### Overview of the Workshop Manual 1987 Harley Davidson Softail

The workshop manual for the 1987 Harley Davidson Softail serves as a comprehensive technical resource, intended primarily for professional mechanics but also accessible to dedicated enthusiasts. It encompasses detailed diagrams, step-by-step procedures, specifications, troubleshooting guides, and safety instructions.

#### Scope and Content

The manual covers:

- Engine overhaul and maintenance
- Transmission disassembly and repair
- Electrical system diagnostics
- Fuel system servicing
- Chassis and suspension adjustments
- Brake system servicing
- Lubrication points and fluid specifications
- Tools and special equipment needed

The content is organized logically, typically starting with safety instructions, followed by general information, then specific sections on individual systems.

### Format and Usability

The manual employs a combination of:

- Clear, labeled diagrams and exploded views
- Sequential procedural instructions
- Specification tables for torque settings, fluid types, and component measurements

Its layout aims to facilitate quick referencing, with detailed index sections and cross-references.

## Accuracy and Depth of Technical Information

One of the primary expectations of a workshop manual is precision. The 1987 Harley Davidson Softail manual generally meets this standard, but a closer examination reveals both strengths and limitations.

### Strengths

- **Detailed Diagrams:** The manual offers highly detailed exploded views of major assemblies, including engine internals, transmission components, and frame parts, which are crucial for accurate repairs.
- **Step-by-Step Procedures:** Instructions are thorough, with specific torque values and sequence steps that minimize errors.
- **Specifications:** Accurate data on engine tolerances, fluid capacities, and electrical wiring

diagrams aid in precise troubleshooting.

- Maintenance Intervals: Recommended service schedules help in planning preventive care.

### Limitations

- Outdated Technology: Some electrical wiring diagrams are simplified, lacking the detail necessary for modern troubleshooting, especially with aftermarket modifications.
- Component Variations: Slight variations in parts over production years may not be fully depicted, necessitating cross-referencing with parts catalogs.
- Lack of Troubleshooting Flowcharts: While procedural guides are comprehensive, flowcharts that aid in diagnosis are limited, requiring users to interpret symptoms manually.

## Practical Usefulness for Restoration and Maintenance

The manual's practical utility is a key factor in its value. For the 1987 Harley Davidson Softail, it serves multiple roles:

### For Mechanics and Technicians

- Standardized Procedures: Ensures repairs are performed according to manufacturer specifications, preserving value and safety.
- Time Efficiency: Clear instructions and diagrams reduce diagnostic time.
- Component Replacement: Accurate specifications prevent over-tightening or improper assembly.

### For Restorers and Hobbyists

- Authentic Restoration: Guides in authentic parts replacement and assembly, essential for collectors.
- Understanding Original Design: Provides insight into factory-approved methods, preventing 'hack' repairs.
- Troubleshooting: Assists in diagnosing persistent issues, especially in electrical or engine systems.

### Limitations in Practical Use

- Availability of Tools: Some procedures require specialty tools not common in standard garages.

- Component Obsolescence: Certain parts or procedures are outdated, requiring supplementary resources or modern adaptations.
- Digital Accessibility: The manual's original format is print; digital versions, if available, improve accessibility but may vary in quality.

## Comparison with Contemporary Manuals and Resources

When evaluating the workshop manual 1987 Harley Davidson Softail, it's beneficial to compare it with similar resources:

- Factory Service Manuals (FSMs): These remain the gold standard, often more detailed than aftermarket or third-party guides.
- Haynes and Chilton Manuals: Offer more generalized procedures, easier for amateurs but less precise.
- Online Forums and Communities: Provide anecdotal advice and troubleshooting tips, supplementing the manual but not replacing it.
- Digital Resources: Some vintage manuals have been digitized, enhancing searchability and convenience.

Compared to modern manuals, the 1987 Harley Davidson Softail manual might lack some of the integrated troubleshooting flowcharts or diagnostic codes seen in newer editions but compensates with detailed, authentic information.

## Value for Collectors and Enthusiasts

For collectors, owning a factory workshop manual significantly enhances the restoration and maintenance process. The workshop manual 1987 Harley Davidson Softail:

- Preserves authenticity during restorations
- Serves as a historical document reflecting engineering standards of the era
- Adds value to a vintage motorcycle collection

Enthusiasts seeking to learn more about vintage Harley mechanics benefit from the manual's detailed approach, deepening their understanding of classic motorcycle engineering.

## Conclusion: Assessing the Overall Quality and Relevance

The workshop manual 1987 Harley Davidson Softail stands as a vital resource for maintaining and restoring this classic model. Its comprehensive diagrams, detailed procedures, and specifications

uphold Harley Davidson's reputation for quality documentation. While some aspects, like electrical wiring complexity and the need for specialized tools, pose challenges, these are typical for vintage motorcycles.

In terms of relevance, the manual remains a reliable guide, especially when supplemented with modern resources like online forums and updated parts catalogs. Its value extends beyond mere technical reference—it is a bridge connecting enthusiasts to the authentic engineering heritage of Harley Davidson.

Ultimately, the manual's thoroughness and fidelity to the original factory specifications make it an indispensable tool for those committed to preserving the legacy and performance of the 1987 Harley Davidson Softail. Whether for professional mechanics or dedicated hobbyists, this manual offers an authoritative foundation for every repair, restoration, or maintenance project involving this iconic motorcycle.

In Summary:

- The workshop manual 1987 Harley Davidson Softail is a comprehensive, accurate, and detailed resource.
- It is particularly valuable for authentic restorations and precise repairs.
- While some technical details may be outdated or challenging for amateurs, it remains a cornerstone reference.
- Its integration into a broader set of resources ensures the best outcomes for vintage Harley owners and restorers alike.

For vintage Harley enthusiasts, investing in or sourcing this manual ensures that the spirit of 1980s Harley engineering continues to roar on the road.

**Question** Where can I find a workshop manual for the 1987 Harley Davidson Softail? You can find the original 1987 Harley Davidson Softail workshop manual through Harley Davidson dealerships, online auction sites, or specialized motorcycle manual retailers such as Haynes or Clymer. **Answer** Is the 1987 Harley Davidson Softail manual suitable for all Softail models from that year? The 1987 workshop manual primarily covers the Softail models produced that year. However, some parts and procedures are similar across models, so it's best to verify specific sections for your exact model. What are the key maintenance topics covered in the 1987 Harley Davidson Softail manual? The manual covers engine repair, transmission, clutch, electrical systems, suspension, brakes, and detailed troubleshooting procedures for the 1987 Softail models. Are there digital versions of the 1987 Harley Davidson Softail workshop manual available? Yes, digital PDFs of the original manual are available from various online sources, but ensure they are from reputable sellers to avoid counterfeit copies. How difficult is it to perform basic repairs on a 1987 Harley Davidson Softail using

the workshop manual? With the workshop manual, basic repairs such as oil changes, brake adjustments, and minor tune-ups are manageable for DIY enthusiasts. However, more complex tasks may require professional expertise. What tools are recommended when following the 1987 Harley Davidson Softail workshop manual? Common tools include a set of socket and wrench sets, screwdrivers, pliers, torque wrench, and specialty Harley Davidson tools specified in the manual for certain repairs. Is the 1987 Harley Davidson Softail manual useful for restoration projects? Absolutely. The manual provides detailed diagrams and procedures essential for restoring a 1987 Softail to original condition or performing detailed repairs. Can I get technical support or advice after purchasing the 1987 Harley Davidson Softail workshop manual? While the manual provides technical guidance, for further support, you can join Harley Davidson enthusiast forums or local motorcycle clubs for community advice. Are there any common issues with the 1987 Harley Davidson Softail that the workshop manual helps address? Yes, common issues such as clutch slipping, electrical wiring problems, and suspension wear are covered in the manual, providing step-by-step troubleshooting and repair instructions.

**Related keywords:** Harley Davidson Softail, 1987 Harley manual, Softail motorcycle repair, Harley Davidson service manual, Softail bike maintenance, Harley Davidson parts manual, Harley Softail specifications, Harley Davidson restoration, motorcycle workshop guide, Harley Davidson technical manual

## Harley davidson service manuals tour glide 1989

**harley davidson service manuals tour glide 1989** are an essential resource for enthusiasts, mechanics, and owners who seek to maintain, repair, or restore this iconic touring motorcycle. The 1989 Harley Davidson Tour Glide, part of the FLHS series, epitomizes the blend of classic Harley style with touring comfort, making it a sought-after model among vintage bike collectors and riders alike. Having a detailed service manual tailored specifically for this model not only ensures proper maintenance but also empowers owners to perform repairs confidently, saving costs and extending the lifespan of their motorcycle.

In this comprehensive guide, we will delve into the importance of Harley Davidson service manuals for the 1989 Tour Glide, explore the key features of the motorcycle, discuss where to find authentic manuals, and provide maintenance tips. Whether you're a seasoned mechanic or a proud owner, understanding the nuances of the 1989 Tour Glide manual is crucial for keeping your bike in optimal condition.

## Understanding the 1989 Harley Davidson Tour Glide

## Overview of the 1989 Model

The 1989 Harley Davidson Tour Glide represents a significant chapter in Harley's touring lineup. Built with a FLHS (Fat Long Harley Springer) chassis, it features a distinctive fairing, comfortable seating, and a robust V-twin engine. The model was designed to provide long-distance comfort combined with Harley's legendary performance.

Key specifications include:

- Engine: 80 cubic inch (1340cc) Evolution V-twin
- Transmission: 4-speed manual
- Fuel Capacity: Approximately 5 gallons
- Weight: Around 770 pounds (wet)
- Features: Full fairing, hard saddlebags, cruise control options

This model's durability and iconic styling make it a favorite among vintage Harley owners who appreciate the craftsmanship and engineering of late 1980s Harley-Davidson bikes.

## The Importance of Service Manuals for the 1989 Tour Glide

### Why You Need a Genuine Service Manual

Owning a Harley Davidson Tour Glide from 1989 without a proper service manual can be challenging. These manuals serve as comprehensive guides that detail every aspect of the motorcycle's mechanical and electrical systems. They are invaluable for several reasons:

- Accurate Repair Procedures: Step-by-step instructions for diagnostics, repairs, and adjustments.
- Correct Parts Identification: Diagrams and part numbers facilitate ordering the right components.
- Maintenance Schedules: Routine checks and servicing intervals to keep the bike running smoothly.
- Safety and Efficiency: Proper procedures prevent damage and ensure rider safety.

### Benefits of Using an Original or OEM Manual

While aftermarket manuals may be available, original Harley Davidson service manuals are recommended for their accuracy. They are tailored specifically to your model and contain detailed information that generic manuals might lack.

# Where to Find Harley Davidson Service Manuals for 1989 Tour Glide

## Official Harley Davidson Resources

Harley Davidson offers official service manuals through authorized dealerships and their online parts catalog. For vintage models like the 1989 Tour Glide, these manuals can often be ordered in digital PDF format or as printed copies.

## Third-Party and Vintage Manual Providers

Many vintage motorcycle manual publishers and online marketplaces stock original or reproduction manuals, including:

- eBay
- Amazon
- Dedicated motorcycle manual websites such as Helm Publications or Haynes
- Specialty forums and Harley Davidson enthusiast communities

When purchasing, verify that the manual covers the 1989 Tour Glide specifically, as different years and models might have variations.

## Digital vs. Printed Manuals

Digital manuals offer instant access, easy search functions, and convenience. Printed manuals, on the other hand, provide tactile reference and are preferred by some mechanics for hands-on work.

## Key Sections Covered in the 1989 Harley Davidson Service Manual

### Engine and Transmission

Details on engine disassembly, rebuild procedures, carburetor adjustments, and transmission servicing are comprehensively covered. This section helps owners troubleshoot power issues and perform upgrades.

### Electrical System

Includes wiring diagrams, lighting, ignition system, and accessory installation instructions. Given the complexity of Harley's electrical systems, detailed diagrams are essential.

### Chassis and Suspension

Maintenance and repair procedures for the frame, front fork, rear shocks, and wheel alignment help maintain ride quality.

## Body and Cosmetic Parts

Guidance on removing, replacing, and restoring fairings, seats, and other body components.

## Maintenance Tips for the 1989 Harley Davidson Tour Glide

### Regular Inspection and Servicing

Adhering to the schedule outlined in the manual ensures longevity and performance:

- Oil Changes: Use recommended oil grades and change at specified intervals.
- Brake Checks: Inspect pads, fluid levels, and calipers regularly.
- Tire Maintenance: Check for wear and proper inflation.
- Electrical System: Test batteries, wiring, and lighting periodically.
- Lubrication: Properly lubricate drive chains, cables, and moving parts.

### Common Repairs and Troubleshooting

- Starting Issues: Check the battery, starter relay, and ignition switch.
- Engine Overheating: Verify cooling system function and oil levels.
- Electrical Failures: Use wiring diagrams from the manual to trace faults.

### Upgrading and Customization

The manual provides guidance on compatible aftermarket parts, enabling owners to personalize their bikes while maintaining safety and reliability.

## Conclusion

The Harley Davidson service manual for the 1989 Tour Glide is not just a technical document; it is a vital tool that empowers owners and mechanics to keep these vintage motorcycles running at their best. Whether you're restoring a classic or performing routine maintenance, having access to detailed, accurate information ensures that your Tour Glide remains a reliable and iconic machine on the road. Investing in an original or high-quality reproduction manual guarantees that you have all the necessary knowledge to enjoy your Harley Davidson for years to come.

Remember, proper maintenance based on the manual's guidelines can enhance your riding experience, preserve the value of your vintage bike, and uphold Harley Davidson's storied legacy.

## Harley Davidson Service Manuals Tour Glide 1989: An In-Depth Review and Guide

When it comes to maintaining and repairing a vintage Harley Davidson Tour Glide from 1989, owning the right service manual is indispensable. The Harley Davidson Service Manual for the 1989 Tour Glide serves as a comprehensive guide that combines technical precision with ease of understanding, making it an essential resource for both amateur restorers and seasoned mechanics. In this review, we will explore every facet of this manual—from its content scope and usability to its value in keeping your classic Harley running smoothly.

## Overview of the 1989 Harley Davidson Tour Glide Service Manual

The 1989 Harley Davidson Tour Glide, a member of the FLHT series, is renowned for its touring comfort, robust build, and distinctive Harley styling. The official service manual dedicated to this model offers a detailed, factory-level insight into the motorcycle's mechanical and electrical systems. It is designed to facilitate accurate diagnostics, repairs, and routine maintenance.

Key Features of the Manual:

- Comprehensive coverage of the 1989 Tour Glide model
- Factory specifications and tolerances
- Step-by-step repair procedures
- Wiring diagrams and electrical schematics
- Maintenance schedules and troubleshooting guides
- Clear diagrams and illustrations

This manual is typically published by Harley Davidson Motor Company and is often available in both printed and digital formats, making it accessible for different user preferences.

## Content Breakdown of the 1989 Tour Glide Service Manual

A detailed manual is only as good as its content. The 1989 Harley Davidson Tour Glide manual is structured to cover every aspect of the motorcycle, ensuring that owners and technicians can quickly locate the information needed.

### 1. General Information and Specifications

- Model Overview: Introduction to the Tour Glide's design features, revisions specific to 1989, and unique components.
- Technical Specifications: Engine details, transmission specs, wheel sizes, tire pressures, electrical system voltages, and more.
- Tools and Equipment: Recommended tools for repairs, special Harley Davidson tools, and safety precautions.

## 2. Engine and Drivetrain

- Engine Disassembly/Reassembly: Step-by-step procedures for removing and rebuilding the 80 cubic inch (1340cc) Evolution V-twin engine.
- Lubrication and Fluids: Oil types, capacities, and change intervals.
- Fuel System: Carburetor calibration, cleaning, and tuning.
- Clutch and Transmission: Adjustments, replacements, and troubleshooting.

## 3. Electrical System and Wiring Diagrams

- Wiring Schematics: Complete electrical schematics for ignition, lighting, charging, and accessory circuits.
- Component Locations: Diagrams indicating the placement of fuses, relays, switches, and connectors.
- Troubleshooting Electrical Issues: Step-by-step troubleshooting guides for common electrical faults.

## 4. Suspension and Frame

- Front and Rear Suspension Maintenance: Fork oil replacement, shock absorber servicing, and alignment.
- Frame and Body: Frame checks, rust prevention, and cosmetic repairs.

## 5. Brake System

- Hydraulic Brake System: Master cylinder, calipers, rotors, and pads replacement procedures.
- Brake Fluid: Specifications and bleeding procedures.
- Adjustments: Proper brake lever and pedal adjustments.

## 6. Wheels and Tires

- Wheel Removal and Installation: Procedures for hub, rim, and tire changes.
- Balancing and Alignment: Tips for smooth riding and tire longevity.

## 7. Maintenance Schedule and Routine Checks

- Periodic Maintenance Intervals: Oil changes, filter replacements, spark plug checks, etc.
- Pre-Ride Inspections: Safety checks to perform before each ride.

## Usability and Design of the Manual

The manual's usability is one of its most significant advantages. Harley Davidson's official manuals are designed with clarity in mind, combining technical jargon with accessible language.

Highlights include:

- Clear Diagrams and Illustrations: Visual aids make complex procedures easier to understand.
- Step-by-Step Instructions: Logical sequencing helps even less experienced mechanics follow along.
- Indexed Content: Quick navigation through sections and topics.
- Troubleshooting Guides: Symptom-based diagnostics reduce guesswork.

The manual also incorporates safety notes, emphasizing precautions when handling pressurized systems, electrical components, or heavy parts.

## Value for Restoration and Maintenance

The 1989 Tour Glide service manual holds significant value for owners looking to restore or maintain a vintage Harley.

Advantages include:

- Authentic Factory Data: Ensures repairs adhere to original specifications.
- Cost-Effective Repairs: Enables owners to perform maintenance without expensive dealer labor.
- Enhanced Understanding: Deepens knowledge of the bike's systems, leading to better care.
- Long-Term Investment: Proper maintenance extends the lifespan and preserves the value of the motorcycle.

For restorers, having this manual streamlines the process, providing confidence in sourcing parts,

setting correct tolerances, and executing repairs accurately.

## Where to Obtain the 1989 Harley Davidson Tour Glide Service Manual

Finding an authentic manual can be done through multiple channels:

- Official Harley Davidson Dealerships: Sometimes carry vintage manuals or can direct you to sources.
- Online Marketplaces: Websites like eBay, Amazon, or specialized vintage motorcycle manual sellers often have original or reproduction copies.
- Harley Davidson Forums: Community members frequently share resources or sell copies.
- Digital PDFs: Some websites offer downloadable versions, though authenticity and quality vary.

Tip: Always verify the edition and authenticity before purchasing, especially when buying online.

## Final Thoughts and Recommendations

The Harley Davidson Service Manual for the 1989 Tour Glide is more than just a repair guide; it's a vital tool for preserving and enjoying a classic Harley. Its comprehensive content, user-friendly design, and authoritative data make it an essential investment for any owner or mechanic working on this iconic model.

Recommendations for Best Use:

- Keep it accessible: Store the manual in a safe, dry place, ideally near your workspace.
- Use it systematically: Follow the step-by-step procedures for repairs and maintenance.
- Update your knowledge: Combine the manual with online resources or community advice for complex issues.
- Respect safety protocols: Always adhere to safety guidelines outlined in the manual.

In conclusion, owning the correct service manual for your 1989 Harley Davidson Tour Glide not only facilitates effective repairs but also deepens your understanding of this vintage motorcycle's engineering. It ensures you're equipped to keep your classic Harley in top condition, preserving its value and riding pleasure for years to come.

**Question** Where can I find a comprehensive service manual for the 1989 Harley Davidson Tour Glide? **Answer** You can find the official 1989 Harley Davidson Tour Glide service manual through Harley Davidson's authorized dealerships, online marketplaces like eBay, or specialized motorcycle manual retailers such as Haynes or Chilton. What are the key maintenance procedures

covered in the 1989 Harley Davidson Tour Glide service manual? The manual typically covers engine diagnostics, transmission repairs, electrical system troubleshooting, brake maintenance, suspension adjustments, and detailed procedures for routine servicing and repairs. Is the 1989 Harley Davidson Tour Glide manual available in digital format? Yes, digital copies of the 1989 Tour Glide service manual are often available for purchase or download from online sources, including official Harley Davidson archives or third-party manual websites. Are there any common issues addressed in the 1989 Harley Davidson Tour Glide service manual? Yes, the manual addresses common issues such as electrical wiring problems, carburetor tuning, clutch adjustments, and engine oil leaks typical of the 1989 Tour Glide model. Can I perform maintenance on my 1989 Harley Davidson Tour Glide using only the service manual? While the service manual provides detailed instructions, it is recommended to have mechanical experience or consult a professional for complex repairs to ensure safety and proper maintenance. What tools are recommended for servicing a 1989 Harley Davidson Tour Glide as per the manual? The manual suggests using standard motorcycle repair tools such as screwdrivers, socket wrenches, torque wrenches, tire levers, and specialized Harley Davidson tools for certain components. How often should I perform routine maintenance on my 1989 Harley Davidson Tour Glide according to the service manual? The manual recommends regular checks and maintenance every 3,000 to 5,000 miles, including oil changes, brake inspections, tire pressure checks, and electrical system evaluations to keep the bike in optimal condition.

**Related keywords:** Harley Davidson, Service Manual, Tour Glide, 1989, Motorcycle Repair, Harley Davidson Tour Glide, Bike Maintenance, Harley Service Guide, Touring Bike Manual, Harley Davidson Parts

## Harley davidson flstsb service manual

### Introduction to the Harley Davidson FLSTSB Service Manual

**Harley Davidson FLSTSB service manual** is an essential resource for motorcycle enthusiasts, mechanics, and Harley Davidson owners who seek to maintain, repair, and optimize their Softail Slim S models. Whether you are performing routine maintenance, troubleshooting complex issues, or customizing your bike, having access to a comprehensive service manual ensures that you work efficiently and accurately. In this article, we will explore everything you need to know about the Harley Davidson FLSTSB service manual, including its contents, importance, and how to access and utilize it effectively.

### Understanding the Harley Davidson FLSTSB Model

Before diving into the details of the service manual, it's important to understand the Harley Davidson FLSTSB model itself.

## Overview of the Softail Slim S

- The Harley Davidson FLSTSB is a part of the Softail family, known for its classic styling combined with modern performance.
- The "S" in FLSTSB designates the more powerful, performance-oriented version of the Softail Slim, featuring a high-performance Twin Cam 110 B engine.
- Key features include a minimalist design, ape hanger handlebars, and a low-slung profile, making it a favorite among cruiser enthusiasts.

## Common Maintenance Needs for FLSTSB

- Oil changes
- Brake system inspections
- Tire maintenance
- Electrical system checks
- Engine diagnostics
- Suspension adjustments

Having the service manual handy simplifies these tasks and ensures they are performed correctly.

## What Is Included in the Harley Davidson FLSTSB Service Manual?

The Harley Davidson FLSTSB service manual is a detailed guide compiled by Harley Davidson's technical team. It provides step-by-step instructions, specifications, diagrams, and troubleshooting procedures.

## Main Sections of the Service Manual

- General Information
- Model specifications
- Serial numbers
- Technical data and tolerances

- Maintenance Procedures
  
- Routine checks
- Scheduled service intervals
- Fluid and lubricant specifications
  
- Engine Repair and Overhaul
  
- Disassembly and assembly instructions
- Torque specifications
- Troubleshooting engine issues
  
- Electrical System
  
- Wiring diagrams
- Battery maintenance
- Lighting and signal systems
  
- Fuel System
  
- Carburetor / fuel injection details
- Fuel line inspection
- Troubleshooting fuel delivery issues
  
- Suspension and Frame
  
- Fork adjustments
- Shock absorber replacement
- Frame inspection
  
- Braking System

- Brake pad replacement
- Brake fluid bleeding
- Hydraulic system troubleshooting
  
- Wheels and Tires
  
- Tire mounting
- Wheel balancing
- Axle maintenance
  
- Accessories and Customization
  
- Installation guides
- Handling aftermarket parts

## Importance of the Harley Davidson FLSTSB Service Manual

Having a genuine or comprehensive service manual offers numerous benefits:

### Accuracy and Safety

- Ensures repairs are performed correctly, reducing the risk of damage or accidents.
- Provides safety warnings and precautions for complex procedures.

### Cost Savings

- DIY repairs prevent costly visits to the mechanic.
- Helps identify issues early before they escalate into expensive repairs.

### Time Efficiency

- Step-by-step instructions streamline maintenance tasks.
- Access to diagrams and specifications speeds up repairs.

## Enhances Knowledge and Confidence

- Empowers owners to understand their motorcycle's mechanics.
- Facilitates better communication with professional technicians.

## How to Access the Harley Davidson FLSTSB Service Manual

There are several ways to obtain the service manual for your Harley Davidson FLSTSB:

### Official Harley Davidson Resources

- Harley Davidson Dealerships: Many dealerships provide access to official service manuals.
- Harley Davidson's Official Website: The company offers digital manuals for purchase or subscription.
- Harley-Davidson Parts & Service Portal: Registered users can access manuals and technical bulletins.

### Online Marketplaces and Digital Libraries

- Websites like eBay and Amazon often list original or reproduction service manuals.
- Specialized motorcycle manual websites offer downloadable PDFs.

### Third-Party Repair Manual Publishers

- Haynes and Chilton publish comprehensive manuals that include Harley Davidson models.
- These manuals are generally more affordable and user-friendly for DIY enthusiasts.

### Tips for Choosing the Right Manual

- Ensure the manual is specific to the Harley Davidson FLSTSB model and year.
- Opt for official or reputable publishers to guarantee accuracy.
- Consider digital versions for easy access and searchability.

## Using the Harley Davidson FLSTSB Service Manual Effectively

Once you have access to the manual, following these tips will maximize its usefulness:

## **Familiarize Yourself with the Manual Structure**

- Review the table of contents.
- Locate sections relevant to your maintenance or repair task.

## **Gather Necessary Tools and Parts**

- Cross-reference parts lists before starting.
- Prepare all tools specified in the manual to avoid delays.

## **Follow Step-by-Step Instructions**

- Read through procedures thoroughly before beginning.
- Follow torque specifications and safety warnings.

## **Utilize Diagrams and Photos**

- Diagrams help visualize complex components.
- Use images to confirm proper assembly.

## **Keep the Manual Organized**

- Mark sections for future reference.
- Make notes on repairs or adjustments performed.

## **Common Repairs and Maintenance Tasks with the FLSTSB Service Manual**

Below are some typical repairs and maintenance tasks that the manual can guide you through:

### **Oil Change Procedure**

- Drain the old oil safely.
- Replace the oil filter.
- Refill with recommended oil type and quantity.

## Brake System Inspection and Replacement

- Check brake pads for wear.
- Bleed hydraulic brake lines.
- Replace worn components as needed.

## Valve Adjustment

- Remove valve covers.
- Measure valve clearances.
- Adjust according to specifications.

## Carburetor or Fuel Injection Tuning

- Clean or replace fuel filters.
- Adjust mixture screws.
- Synchronize multiple carburetors if applicable.

## Electrical System Troubleshooting

- Check fuses and wiring connections.
- Test battery voltage.
- Replace faulty switches or relays.

## Maintaining Your Harley Davidson FLSTSB for Longevity

Regular maintenance, guided by the service manual, helps extend the lifespan of your motorcycle.

## Scheduled Maintenance Intervals

- Oil and filter changes every 3,000-5,000 miles.
- Brake fluid replacement every 2 years.
- Belt and drive chain inspections every 10,000 miles.
- Tire inspections monthly.

## Important Maintenance Tips

- Always use recommended fluids and parts.
- Keep detailed records of maintenance performed.
- Address issues promptly to prevent further damage.
- Store the motorcycle in a clean, dry environment.

## Conclusion: The Value of a Harley Davidson FLSTSB Service Manual

A comprehensive **Harley Davidson FLSTSB service manual** is a valuable asset for any owner or mechanic dedicated to maintaining the integrity and performance of this iconic motorcycle. It provides clarity, confidence, and cost savings, making it easier to perform repairs and routine maintenance. Whether you choose an official manual, a trusted third-party publication, or digital resources, ensuring you have the right information tailored to your model and year is crucial. Properly utilizing the manual not only preserves your Harley Davidson FLSTSB's value but also enhances your riding experience, safety, and satisfaction.

Remember: Always prioritize safety, follow manufacturer recommendations, and consult professional technicians when necessary. With the right manual and knowledge, you can keep your Harley Davidson FLSTSB running smoothly for miles and years to come.

### Harley Davidson FLSTSB Service Manual: The Ultimate Guide for Maintenance and Repairs

When it comes to maintaining your Harley Davidson FLSTSB, understanding the ins and outs of the Harley Davidson FLSTSB service manual is essential. This comprehensive resource is designed to help owners, mechanics, and enthusiasts alike perform routine maintenance, troubleshoot issues, and execute repairs with confidence. Whether you're a seasoned rider or a newcomer eager to learn, having access to the official service manual ensures your motorcycle remains in peak condition and retains its value over time.

In this guide, we'll explore everything you need to know about the Harley Davidson FLSTSB service manual, from where to get a copy to how to interpret its contents, and practical tips for performing common maintenance tasks.

### What is the Harley Davidson FLSTSB Service Manual?

The Harley Davidson FLSTSB service manual is an official technical document published by Harley Davidson that provides detailed instructions, specifications, diagrams, and troubleshooting guides for the FLSTSB model, commonly known as the Softail Cross Bones. This manual serves as a vital tool for owners and professional mechanics, offering step-by-step procedures for everything from basic oil changes to complex engine repairs.

Key features of the service manual include:

- Detailed wiring diagrams to assist with electrical troubleshooting
- Exploded parts diagrams for easy identification of components
- Maintenance schedules to keep your motorcycle in optimal condition
- Torque specifications to ensure proper assembly and safety
- Troubleshooting guides to diagnose common and uncommon issues

Having the manual on hand not only streamlines repair processes but also minimizes the risk of damage caused by improper procedures.

### Where to Find the Harley Davidson FLSTSB Service Manual

Finding an authentic and comprehensive service manual for your Harley Davidson FLSTSB is crucial. Here are the most reliable sources:

- Harley Davidson Official Website
  - The manufacturer's site offers digital versions of the official service manuals for purchase or download.
  - Available in PDF format, ensuring easy access on tablets or computers.
- Authorized Harley Davidson Dealerships
  - Many dealerships stock physical copies or can order them for you.
  - Purchasing through authorized channels guarantees authenticity and access to the latest updates.
- Online Retailers and Marketplaces
  - Websites like eBay, Amazon, and specialized motorcycle manual providers often sell both new and used copies.
  - Be cautious to verify the edition and compatibility with your motorcycle's year and model.
- Motorcycle Forums and Communities

- Enthusiast forums often share scanned copies or links to where you can access manuals.
- Remember, unofficial copies may be outdated or incomplete, so verify their reliability.

## Understanding the Content of the Service Manual

The Harley Davidson FLSTSB service manual is organized into sections that cover every aspect of the motorcycle's maintenance and repair. Familiarity with its structure helps you quickly locate information you need.

Typical sections include:

- Introduction and safety information
- Specifications and tolerances
- Routine maintenance procedures (oil changes, tire replacements, brake adjustments)
- Engine overhaul and repair
- Transmission and clutch maintenance
- Electrical system and wiring diagrams
- Suspension and frame details
- Troubleshooting guides and fault code explanations

Each section contains detailed step-by-step instructions, accompanied by exploded diagrams, photographs, and torque values. The manual often includes special tools required for specific tasks, which is invaluable for accurate repairs.

## Practical Tips for Using the Harley Davidson FLSTSB Service Manual

- Always verify your motorcycle's model year
- Manuals are often specific to certain production years. Using the correct manual prevents confusion and errors.
- Use the manual as a reference, not a substitute
- While the manual provides detailed instructions, ensure you have the necessary skills and tools before attempting complex repairs. Seek professional help if unsure.

- Keep the manual clean and accessible
- Store it in a dry, organized place. Consider creating a digital backup for easy searching.
- Follow safety precautions at all times
- Disconnect the battery when working on electrical components. Use proper lifting techniques for heavy parts.
- Cross-reference with other resources
- Consult online forums, video tutorials, and professional guides to supplement information from the manual.

### Common Maintenance Tasks with the Harley Davidson FLSTSB Service Manual

The manual simplifies many routine tasks. Here's a breakdown of common maintenance procedures:

#### Oil Change and Lubrication

- Drain the old oil using the specified drain plug.
- Replace the oil filter as per instructions.
- Refill with the recommended oil type and quantity.
- Check for leaks and proper oil level.

#### Brake System Inspection

- Inspect brake pads for wear and replace if necessary.
- Bleed the brake lines to remove air bubbles.
- Check brake fluid levels and top up with specified fluid.

#### Tire and Wheel Maintenance

- Inspect tires for cuts, punctures, and tread wear.
- Ensure proper tire pressure as per specifications.
- Balance wheels if necessary.

## Electrical System Checks

- Use the wiring diagrams to troubleshoot electrical issues.
- Check fuses, relays, and connections.
- Test the battery's voltage and replace if needed.

## Engine Tune-Up

- Replace spark plugs and inspect ignition components.
- Clean or replace air filters.
- Adjust valves if necessary, following the manual's specifications.

## Final Thoughts: Why the Harley Davidson FLSTSB Service Manual Is Indispensable

Owning a Harley Davidson FLSTSB is about more than just enjoying the ride; it's about understanding and maintaining your motorcycle to ensure longevity and performance. The Harley Davidson FLSTSB service manual is the cornerstone of this knowledge. It empowers owners to perform maintenance, repairs, and upgrades confidently, saving money and time while enhancing safety.

Whether you're tackling your first oil change or performing an engine overhaul, having the correct, detailed manual as your guide makes all the difference. Remember, proper maintenance not only preserves your bike's value but also ensures that every ride is safe, smooth, and enjoyable.

Invest in a genuine Harley Davidson service manual today, and take control of your motorcycle's care with confidence and precision.

**Question** Where can I find the official Harley Davidson FLSTSB service manual? The official service manual for the Harley Davidson FLSTSB can be purchased from Harley Davidson's official website or authorized dealers. You may also find digital copies on authorized repair websites or forums. **Answer** What are the key maintenance tasks covered in the FLSTSB service manual? The manual covers engine maintenance, brake system repairs, electrical troubleshooting, suspension adjustments, tire replacement, fluid changes, and detailed procedures for routine inspections. Is the Harley Davidson FLSTSB service manual suitable for DIY repairs? Yes, the manual provides step-by-step instructions and diagrams, making it a valuable resource for DIY enthusiasts and

experienced mechanics alike. How often should I consult the FLSTSB service manual for my motorcycle? It's recommended to consult the manual during regular maintenance intervals, such as every 5,000 miles or as specified in your owner's manual, and whenever you plan to perform repairs or troubleshooting. Does the FLSTSB service manual include electrical wiring diagrams? Yes, the manual contains detailed electrical wiring diagrams to assist with troubleshooting and repairs of the motorcycle's electrical system. Are there troubleshooting guides in the FLSTSB service manual? Absolutely. The manual includes troubleshooting sections that help identify and resolve common issues related to engine performance, brakes, electrical systems, and more. Can I use the FLSTSB service manual to perform engine rebuilds? Yes, the manual provides comprehensive instructions for engine disassembly, inspection, and reassembly, suitable for engine rebuilds if you have the necessary skills. Is there a difference between the Harley Davidson FLSTSB service manual and other Softail models? Yes, each model has specific components and procedures. The FLSTSB manual is tailored for the Softail Slim S, so always ensure you're referencing the correct manual for your model. How can I ensure I am using the latest version of the FLSTSB service manual? Check Harley Davidson's official website or authorized dealers for the most recent editions or updates to the service manual to ensure you have the latest information. Are there online resources or forums where I can get additional help with the FLSTSB service manual? Yes, online Harley Davidson forums, motorcycle repair communities, and YouTube channels offer tutorials, tips, and peer support for working with the FLSTSB and understanding its service manual.

**Related keywords:** Harley Davidson FLSTSB manual, Harley Davidson Softail service guide, FLSTSB maintenance manual, Harley Davidson Softail repair, FLSTSB parts diagram, Harley Davidson motorcycle manual, FLSTSB troubleshooting, Harley Davidson engine manual, FLSTSB electrical schematic, Harley Davidson Softail service instructions

## Harley davidson flat rate manual

**harley davidson flat rate manual** is an essential resource for motorcycle enthusiasts, mechanics, and Harley Davidson owners who want to perform maintenance and repairs efficiently and accurately. This comprehensive manual provides standardized labor times and procedures, enabling technicians to estimate costs, plan workflows, and ensure quality service. Whether you're a professional mechanic or a dedicated Harley Davidson rider, understanding the ins and outs of the flat rate manual can save you time and money, streamline your repair process, and help maintain the longevity of your motorcycle.

## What Is a Harley Davidson Flat Rate Manual?

A Harley Davidson flat rate manual is a technical document that outlines the standard labor times

associated with various repair and maintenance procedures for Harley Davidson motorcycles. The manual assigns specific time estimates?measured in hours or tenths of hours?to different tasks, such as oil changes, brake repairs, engine overhauls, or electrical diagnostics. These standard times are used primarily by service shops, dealerships, and independent mechanics to generate consistent and fair labor charges.

## Purpose and Benefits of the Flat Rate Manual

The primary objectives of the Harley Davidson flat rate manual include:

- **Standardization:** Ensures uniformity in estimating repair times across different shops and technicians.
- **Efficiency:** Helps mechanics plan their work schedules and manage workflow effectively.
- **Cost Estimation:** Provides accurate labor cost estimates for customers, promoting transparency.
- **Training:** Serves as an educational resource for new technicians to learn proper procedures and timeframes.

## Structure of the Harley Davidson Flat Rate Manual

The manual is typically organized into sections based on motorcycle models, components, or repair categories. Each entry includes:

### Standard Procedure Description

- Step-by-step instructions for the repair or maintenance task.

### Labor Time Estimate

- The assigned time to complete the task, expressed in hours or tenths of hours (e.g., 0.5 hours = 30 minutes).

### Additional Notes or Special Instructions

- Tips, warnings, or model-specific considerations to ensure proper execution.

## Common Sections Covered in the Manual

The Harley Davidson flat rate manual encompasses a broad range of maintenance and repair areas, including but not limited to:

- Engine and Transmission
- Electrical System
- Fuel System
- Brakes and Suspension
- Body and Frame
- Accessories and Customization

## How to Use the Harley Davidson Flat Rate Manual Effectively

Proper utilization of the manual enhances efficiency and ensures accurate billing. Here are steps to maximize its benefits:

### 1. Identify the Correct Procedure

- Use the motorcycle's make, model, and year to locate the relevant repair or maintenance task.

### 2. Review the Procedure Details

- Read through the step-by-step instructions to understand the scope of work.

### 3. Note the Assigned Labor Time

- Record the standard time estimate for the task, considering any special notes or precautions.

### 4. Adjust for Complexity or Special Conditions

- Increase or decrease the time estimate based on factors such as custom modifications, access difficulty, or technician experience.

### 5. Calculate Total Labor Cost

- Multiply the time estimate by the shop's labor rate to determine the total charge.

## Benefits of Using the Flat Rate Manual for Harley Davidson Repairs

Utilizing the manual offers several advantages:

- **Accurate Pricing:** Helps in providing precise estimates to customers, avoiding surprises.
- **Time Management:** Enables technicians to allocate appropriate time for each task.
- **Consistency:** Maintains uniformity in service standards across different shops and technicians.
- **Training Tool:** Acts as a reference for new staff to learn proper procedures and timeframes.
- **Improved Profitability:** Optimizes labor billing and operational efficiency.

## Where to Find the Harley Davidson Flat Rate Manual

The manual is generally available through several sources:

### Official Harley Davidson Service Manuals

- Authorized dealerships and service centers often have access to the latest official manuals.

### Online Resources

- Digital versions can be purchased or accessed via subscription services, such as Harley Davidson's official repair portal.

### Third-Party Providers

- Some companies compile and sell repair guides and manuals that include flat rate information.

### Note:

Always ensure you are using the most recent version of the manual applicable to your motorcycle's model year to guarantee accurate procedures and times.

## Limitations and Considerations

While the Harley Davidson flat rate manual is a valuable tool, it's essential to recognize its limitations:

- **Model Specificity:** Labor times may vary depending on the specific model and year.
- **Skill Level:** Experienced technicians may complete tasks faster than the standard estimate.
- **Unforeseen Challenges:** Hidden issues or parts access difficulties can increase repair time.
- **Updates and Revisions:** Manuals are periodically updated; using outdated versions can lead to inaccurate estimates.

It's advisable to use the manual as a guideline rather than an absolute measure, adjusting estimates based on real-world conditions.

## Advantages of Maintaining a Harley Davidson Flat Rate Manual

For motorcycle shops and mechanics, maintaining a current flat rate manual offers several benefits:

- **Enhanced Customer Trust:** Transparent estimates improve customer satisfaction.
- **Streamlined Workflow:** Clear procedures and time estimates facilitate efficient work schedules.
- **Financial Planning:** Accurate labor estimates enable better profit margin calculations.
- **Legal and Warranty Compliance:** Consistent documentation supports warranty claims and service compliance.

## Conclusion

The **harley davidson flat rate manual** is an indispensable tool for anyone involved in Harley Davidson motorcycle maintenance and repair. By providing standardized labor times and detailed procedures, it streamlines the repair process, ensures consistent quality, and enhances customer satisfaction. Whether you're a professional mechanic or a dedicated Harley enthusiast, investing in and familiarizing yourself with this manual can significantly improve your service outcomes and operational efficiency. Always remember to keep your manual updated and adapt its guidelines to the specific conditions of each repair to maximize its benefits.

Keywords: Harley Davidson flat rate manual, Harley Davidson repair guide, motorcycle repair manual, standard labor times Harley Davidson, Harley Davidson maintenance, Harley Davidson service procedures

### Harley Davidson Flat Rate Manual: An In-Depth Review

For Harley Davidson enthusiasts and professional mechanics alike, the Harley Davidson Flat Rate Manual stands as an essential resource that streamlines the process of servicing, repairing, and maintaining these iconic motorcycles. Designed to optimize workflow and ensure consistency across repairs, this manual offers a comprehensive guide tailored specifically for Harley Davidson models. Whether you're a seasoned technician or a dedicated owner interested in performing your own

maintenance, understanding the features, benefits, and limitations of the flat rate manual is crucial for making informed decisions.

## What is the Harley Davidson Flat Rate Manual?

The Harley Davidson Flat Rate Manual is a technical guide used primarily in professional repair shops and authorized service centers. Unlike standard repair manuals that list time-consuming procedures step-by-step, the flat rate manual assigns predetermined labor times to specific repair tasks. This system simplifies billing, enhances efficiency, and provides standardization across service centers.

### Key Features:

- Assigns fixed labor hours to repair and maintenance procedures
- Includes detailed diagnostic and repair procedures
- Covers a broad range of Harley Davidson models and years
- Incorporates troubleshooting guides and wiring diagrams
- Frequently updated to reflect model changes and new technologies

### Purpose and Benefits:

- Standardizes repair procedures across service centers
- Facilitates accurate and consistent billing
- Reduces repair time by providing clear, systematic instructions
- Enhances the quality of repairs through detailed guidance

## Structure and Content of the Manual

The Harley Davidson Flat Rate Manual is organized into logical sections, making it straightforward for technicians to locate information quickly. Understanding its structure helps users navigate efficiently, especially during time-sensitive repairs.

### Sections Included

- General Information: Safety procedures, tools required, and basic troubleshooting
- Engine and Transmission: Disassembly, inspection, repair, and assembly
- Electrical System: Wiring diagrams, component testing, and wiring repairs
- Chassis and Suspension: Frame, front and rear suspension, wheel assemblies

- Body and Cosmetic Components: Fairings, seats, and aesthetic repairs
- Special Procedures: Diagnostics, software updates, and custom modifications

Each section contains:

- Step-by-step procedures with detailed instructions
- Estimated flat rate hours for each task
- Parts lists and technical specifications
- Troubleshooting guides for common issues

## Advantages of Using the Flat Rate Manual

The flat rate manual offers several advantages that appeal to both professional mechanics and dedicated DIY enthusiasts.

### Efficiency and Time Management

- Predefined labor times enable quick estimation of repair durations
- Streamlined procedures reduce guesswork, leading to faster repairs
- Helps maintain consistent workflow in busy repair shops

### Standardization and Quality Assurance

- Uniform procedures ensure repairs meet Harley Davidson standards
- Minimizes errors caused by inconsistent techniques
- Provides a clear reference for new technicians

### Cost and Billing Accuracy

- Fixed labor times facilitate straightforward billing
- Reduces disputes over repair estimates
- Allows for better resource planning and inventory management

### Technical Depth and Detail

- Includes comprehensive wiring diagrams and troubleshooting tips

- Covers a wide array of models, including older and newer Harley Davidson bikes
- Supports complex repairs like engine rebuilds and electronic diagnostics

## Limitations and Challenges

While the Harley Davidson Flat Rate Manual is a powerful tool, it is not without its limitations.

### Learning Curve

- The detailed procedures can be overwhelming for beginners
- Requires familiarity with Harley Davidson models and technical terminology

### Model and Year Coverage

- May not include the very latest models immediately after release
- Some older or less common models might have limited coverage

### Cost of Access

- The manual is typically sold through authorized distributors or subscription services
- Can be expensive for individual owners or small shops

### Rigid Time Estimates

- Flat rate times are estimates; actual repair times may vary
- Some repairs may require more or less time due to unforeseen issues

### Dependence on Accurate Diagnoses

- The manual provides procedures, but correct diagnosis is essential
- Over-reliance without proper diagnostics can lead to unnecessary repairs

## How to Access and Use the Manual

Accessing the Harley Davidson Flat Rate Manual can be achieved through various channels:

- Official Harley Davidson Service Portal: Authorized technicians and shops often subscribe to digital versions
- Printed Manuals: Physical copies are available for purchase, ideal for workshops
- Third-Party Distributors: Some companies sell licensed copies or extracts

Using the Manual Effectively:

- Familiarize yourself with the manual's layout before starting repairs
- Cross-reference wiring diagrams and troubleshooting guides during diagnostics
- Follow procedures step-by-step, paying attention to safety warnings
- Record actual repair times to compare against flat rate estimates for future planning

Comparison with Other Repair Manuals

While the Harley Davidson Flat Rate Manual is specialized for professional use, other manuals cater to different audiences.

| Feature               | Harley Davidson Flat Rate Manual | Factory Service Manual        | Owner's Manual            |
|-----------------------|----------------------------------|-------------------------------|---------------------------|
|                       | -----                            | -----                         | -----                     |
| Audience              | Professional technicians         | Technicians & advanced DIYers | General motorcycle owners |
| Detail Level          | High, technical                  | Moderate to high              | Basic maintenance info    |
| Repair Time Estimates | Yes                              | No                            | No                        |
| Cost                  | Higher                           | Moderate                      | Usually free or low cost  |
| Coverage              | Specific to models & repairs     | Broad, including diagnostics  | Maintenance tips & safety |

The flat rate manual is unmatched in providing efficiency-focused guidance for professional repairs, whereas owner's manuals focus on basic maintenance and riding tips.

Conclusion: Is the Harley Davidson Flat Rate Manual Worth It?

In summary, the Harley Davidson Flat Rate Manual is an indispensable resource for professional repair shops and dedicated Harley Davidson owners willing to invest in detailed, standardized repair procedures. Its strengths lie in streamlining workflow, ensuring repair quality, and facilitating

accurate billing. For those who regularly service Harley Davidson motorcycles, the manual offers invaluable insights that can save time and reduce errors.

However, it requires a certain level of technical knowledge to use effectively and involves costs that might not be justified for casual owners. For hobbyists interested in basic maintenance, a standard factory service manual or owner's manual may suffice. Conversely, for professional mechanics or shops aiming to enhance efficiency and consistency, the flat rate manual is a worthwhile investment.

#### Pros:

- Standardized procedures streamline repairs
- Fixed labor times aid in accurate billing
- Comprehensive coverage of models and systems
- Incorporates troubleshooting and wiring diagrams

#### Cons:

- Can be costly and complex for beginners
- Not always immediately up-to-date with latest models
- Rigid time estimates may not suit all repairs
- Requires familiarity with Harley Davidson systems

Ultimately, the Harley Davidson Flat Rate Manual embodies a blend of technical depth and practical efficiency, making it a cornerstone tool for professional Harley Davidson service and repair. When used correctly, it can significantly enhance the quality and speed of motorcycle maintenance, ensuring that Harley owners continue to enjoy their bikes with confidence and pride.

**Question** What is the purpose of a Harley Davidson flat rate manual? A Harley Davidson flat rate manual provides standardized labor times and procedures for servicing and repairing Harley motorcycles, helping technicians estimate costs and streamline workflow. **Answer** How does the flat rate system benefit Harley Davidson technicians? It allows technicians to complete repairs efficiently by following predetermined time standards, ensuring consistent billing and improving productivity. Where can I access the latest Harley Davidson flat rate manual? The latest manuals are available through authorized Harley Davidson dealerships, official service portals, or subscription-based technical information systems like the Harley Davidson Quick Reference Guide. Are Harley Davidson flat rate manuals applicable to all models? While they cover most standard models, specific procedures and times may vary by model and year, so it's important to use the correct manual for your particular motorcycle. Can I rely solely on the flat rate manual for motorcycle repairs? The flat rate manual is a helpful guide, but complex issues or unique repairs may require

additional diagnostics and expertise beyond standard procedures. How often are Harley Davidson flat rate manuals updated? They are typically updated annually or as needed to reflect new models, service procedures, and repair times, ensuring technicians have the most current information. Is the Harley Davidson flat rate manual useful for DIY enthusiasts? Yes, it provides valuable guidance on repair procedures and time estimates, but DIYers should also have proper tools and mechanical knowledge to safely perform repairs.

**Related keywords:** Harley Davidson service manual, Harley Davidson repair guide, Harley Davidson parts manual, Harley Davidson maintenance manual, Harley Davidson service schedule, Harley Davidson workshop manual, Harley Davidson owner's manual, Harley Davidson repair instructions, Harley Davidson technical manual, Harley Davidson repair manual PDF