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Clymer Manuals FLH/FLT Twin Cam 88 & 103 1999-2005

Harley-Davidson FLH/FLT Twin Cam 88 & 103 (1999-2005) Service Manual

Brand: Clymer Manuals

Model Series Covered: FLH/FLT Twin Cam 88 & 103 (1999-2005)

INTRODUCTION

This manual provides comprehensive service, repair, and maintenance information for Harley-Davidson FLH/FLT Twin Cam 88 and 103 models manufactured between 1999 and 2005. It is designed to assist owners and professional mechanics in performing various tasks, from routine maintenance to complex repairs.

Models covered include: FLHT/FLHTI Electra Glide Standard (1999-2005), FLHTC/FLHTCI Electra Glide Classic (1999-2005), FLHTCUI Classic Electra Glide (1999-2005), FLHTCSE2 Screamin' Eagle Electra Glide 2 (2005), FLHR/FLHRI Road King (1999-2005), FLHRCI Road King Classic (1999-2005).

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M430-4



HARLEY-DAVIDSON

FLH/FLT TWIN CAM 88 & 103 • 1999-2005

MAINTENANCE • TROUBLESHOOTING • REPAIR

Figure 1: Front cover of the Clymer Manual for Harley-Davidson FLH/FLT Twin Cam 88 & 103 models (1999-2005). The cover features a silver Harley-Davidson touring motorcycle, highlighting the manual's focus on these specific models and years.

USING YOUR MANUAL

This manual is organized into chapters, each covering a specific system or component of the motorcycle. To effectively use this manual:

- **Familiarize Yourself:** Read the introduction to each chapter to understand its scope.
- **Safety First:** Always refer to the safety precautions section before beginning any work.
- **Tools and Supplies:** Ensure you have all necessary tools and replacement parts before starting a procedure.
- **Step-by-Step:** Follow the instructions sequentially. Do not skip steps.
- **Illustrations:** Refer to the accompanying diagrams and photographs for visual guidance.

NAVIGATING INFORMATION

To quickly locate specific information within this manual, utilize the following methods:

- **Chapter Headings:** Each major system (e.g., Engine, Transmission, Brakes) has its own dedicated chapter.
- **Sub-headings:** Within each chapter, detailed procedures are broken down by sub-headings.
- **Index:** A comprehensive index at the back of the manual allows for quick lookup of specific terms, components, or procedures.

For example, to find information on oil changes, navigate to the 'Maintenance' chapter and look for the 'Engine Oil and Filter' section.

MAINTENANCE PROCEDURES

Regular maintenance is crucial for the longevity and optimal performance of your Harley-Davidson motorcycle. This section outlines common maintenance tasks.

Engine Oil and Filter Change

1. Warm the engine to operating temperature.
2. Place a drain pan beneath the oil drain plug.
3. Remove the drain plug and allow oil to drain completely.
4. Remove the old oil filter.
5. Install a new oil filter, ensuring the gasket is properly seated.
6. Reinstall the drain plug with a new O-ring or crush washer.
7. Fill the engine with the recommended type and quantity of new engine oil.
8. Check oil level and inspect for leaks.

Tire Pressure Check

Maintain correct tire pressure for safety and tire longevity. Refer to your motorcycle's specific tire pressure recommendations, typically found on a sticker on the frame or in the owner's manual.

- Check tire pressure when tires are cold.
- Use a reliable tire pressure gauge.
- Adjust pressure as needed.

TROUBLESHOOTING GUIDE

This section provides common symptoms and potential causes for various motorcycle issues, along with suggested remedies.

Common Motorcycle Issues

Symptom	Possible Cause	Remedy
Engine Fails to Start	Dead battery, fouled spark plugs, no fuel	Check battery charge, inspect/replace spark plugs, verify fuel level and delivery
Brakes Squeal	Worn brake pads, contaminated rotors, improper installation	Inspect pads and rotors, clean components, ensure correct installation
Excessive Vibration	Loose fasteners, unbalanced wheels, engine issues	Check all mounting bolts, balance wheels, diagnose engine for misfires

For detailed diagnostic procedures, refer to the specific system chapters within this manual.

SPECIFICATIONS

This manual covers various specifications for the Harley-Davidson FLH/FLT Twin Cam 88 & 103 models (1999-2005). Key specifications include:

- **Engine Type:** Twin Cam 88 (1450cc) and Twin Cam 103 (1690cc) for specific models/years.
- **Transmission:** 5-speed (and 6-speed for later models/upgrades).
- **Fuel System:** Carbureted or Electronic Fuel Injection (EFI), depending on model year.
- **Brakes:** Disc brakes, front and rear.
- **Electrical System:** 12-volt system.

Detailed torque specifications, fluid capacities, and component dimensions are provided within the relevant chapters of the manual.

SUPPORT AND PUBLISHER INFORMATION

This service manual is published by **Haynes Manuals N. America, Inc.** (also known as Clymer Manuals). For inquiries regarding the manual itself, please refer to the publisher's official contact information, typically found on the manual's copyright page or their official website.

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For technical support related to your Harley-Davidson motorcycle, it is recommended to consult a certified Harley-Davidson dealership or a qualified motorcycle mechanic.

