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› Cyclepedia Service Manual for 2004-2006 Harley-Davidson XL883 XL1200 Sportster Motorcycles

Harley-Davidson XL883, XL1200 Sportster

Cyclepedia Service Manual for 2004-2006 Harley-Davidson XL883 XL1200 Sportster Motorcycles

Detailed Repair and Maintenance Instructions

INTRODUCTION

This Cyclepedia Press LLC service manual provides comprehensive, step-by-step procedures for the maintenance, service, and repair of 2004-2006 Harley-Davidson XL883 and XL1200 Sportster motorcycles. It features detailed photographs, wiring diagrams, and specifications to guide users through various tasks.

CYCLEPEDIA PRESS LLC

Service Manual

***2004 - 2006 Harley-Davidson
Sportster 883 / 1200***



Image: Front cover of the Cyclepedia Service Manual, displaying the title and motorcycle models covered.

Applicable Models

- 2004 Harley-Davidson XL883C Sportster Custom
- 2004 Harley-Davidson XL883 Sportster
- 2004 Harley-Davidson XL1200R Sportster Roadster
- 2004 Harley-Davidson XL1200C Sportster Custom
- 2005 Harley-Davidson XL883L Sportster Low Rider
- 2005 Harley-Davidson XL883C Sportster Custom
- 2005 Harley-Davidson XL883 Sportster
- 2005 Harley-Davidson XL1200R Sportster Roadster

- 2005 Harley-Davidson XL1200C Sportster Custom
- 2006 Harley-Davidson XL883R Sportster
- 2006 Harley-Davidson XL883C Sportster Custom
- 2006 Harley-Davidson XL883 Sportster/Low
- 2006 Harley-Davidson XL1200R Sportster Roadster
- 2006 Harley-Davidson XL1200L Sportster Low
- 2006 Harley-Davidson XL1200C Sportster Custom

GENERAL USAGE GUIDELINES

Before attempting any service or repair, carefully read the relevant sections of this manual. Ensure you have the necessary tools and a safe working environment. Always prioritize safety by wearing appropriate protective gear and disconnecting the battery when working on electrical components.

Navigating the Manual

The manual is organized into distinct chapters, each covering a specific system or component of the motorcycle. Use the chapter titles to quickly locate the information you need. Procedures are presented in a step-by-step format, often accompanied by photographs to illustrate each stage.

- **Quick Reference:** Contains essential information such as special tools, specifications, torque values, and VIN/engine number locations.
- **Detailed Procedures:** Chapters like 'Engine', 'Fuel System', and 'Electrical Systems' provide in-depth instructions for disassembly, inspection, repair, and reassembly.
- **Wiring Diagrams:** Located within the 'Electrical Systems' chapter, these diagrams are crucial for diagnosing and repairing electrical issues.

PERIODIC MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Harley-Davidson Sportster. This manual includes a dedicated 'Periodic Maintenance' chapter detailing all routine service tasks. Adhere to the recommended service intervals outlined in this section.

Key Maintenance Tasks Covered:

- Primary Drive Chain Inspection
- Drive Belt Inspection
- Clutch Cable Adjustment
- Throttle Free Play Adjustment
- Engine Idle Speed Adjustment
- Brake Inspection and Fluid Check
- Engine and Transmission Oil Changes
- Spark Plug Inspection and Replacement
- Air Filter Servicing
- Tire Inspection and Pressure Check
- Fork Oil Change
- Compression Test

REPAIR PROCEDURES

This manual provides detailed instructions for repairing various components and systems of your motorcycle. Each procedure is broken down into manageable steps to ensure accuracy and ease of understanding.

Major Systems Covered:

- **Fuel System:** Petcock, Evaporative Emissions Control, Carburetor removal, installation, assembly, and disassembly.
- **External Components:** Handlebars, Jiffy Stand, Side Covers, Belt Guards, Seat, Fuel Tank, Footpegs, Fenders, Exhaust System.
- **Engine:** Cam Gear, Primary Cover, Primary Drive and Clutch, Connecting Rod Bushing, Cylinder Head, Top End, Cylinder and Piston, Oil Tank, Oil Filter Mount, Gearshift, Oil Pump, Engine Removal/Installation, Flywheel Assembly, Starter Motor, Transmission, Crankcase, Valve Tappets, Valve Work.
- **Final Drive:** Drive Chain, Engine Sprocket, Rear Wheel Sprocket.
- **Front Brake:** Front Disc Brake, Caliper, Master Cylinder.
- **Rear Brake:** Rear Caliper, Brake Disc, Master Cylinder, Brake Rod and Pedal.
- **Wheels:** Wheel and Axle Inspection, Front Wheel, Rear Wheel, Bearing Replacement.
- **Steering:** Removal and Installation.
- **Front Suspension:** Fork Assembly, Disassembly, Removal, Installation, and Inspection.
- **Rear Suspension:** Shock Absorber, Swing Arm.
- **Electrical Systems:** Tail Light, Charging System, Ignition System, Stator and Rotor, Headlight, Electrical Harness Connectors, Fuses and Starter Relay, Electrical Bracket, Instrument Cluster, Turn Signals, Switches, Horn, Wiring Diagram.

TROUBLESHOOTING

While this manual does not contain a dedicated 'Troubleshooting' chapter, the detailed, step-by-step repair instructions for each system are designed to assist in diagnosing and resolving issues. By systematically following the inspection and testing procedures outlined for each component, users can identify the root cause of problems and perform the necessary repairs.

Refer to the 'Electrical Systems' chapter for comprehensive wiring diagrams and diagnostic information related to electrical faults. The 'Quick Reference' section also provides general specifications that can aid in identifying deviations from normal operating parameters.

SPECIFICATIONS

Key specifications for the manual itself are provided below. For motorcycle-specific technical specifications, refer to the 'Quick Reference' chapter within the manual.

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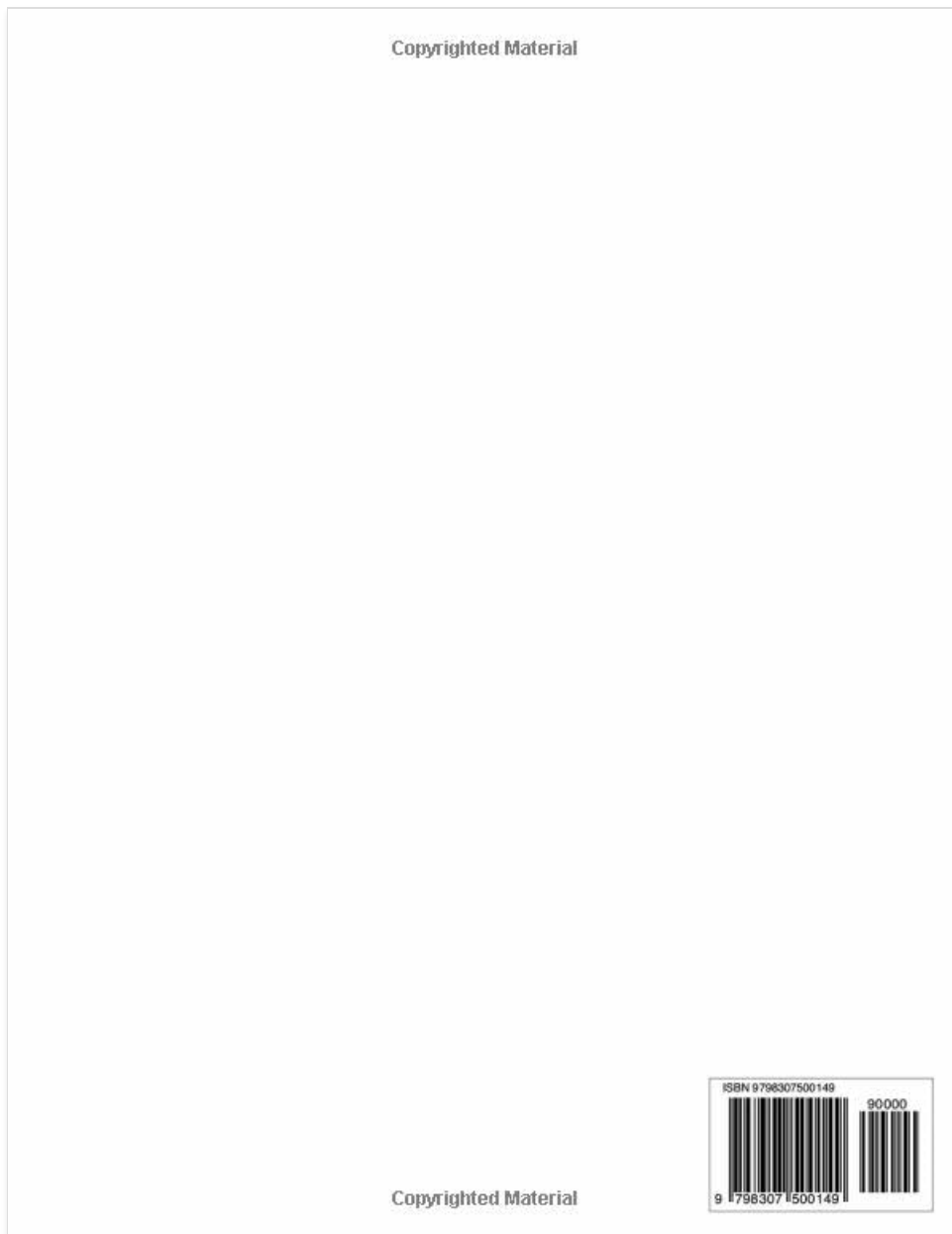


Image: Back cover of the Cyclepedia Service Manual, featuring the ISBN barcode and publication details.

SUPPORT INFORMATION

For inquiries regarding the content or publication of this Cyclepedia service manual, please contact the publisher, Cyclepedia Press LLC. This manual is a reference guide for motorcycle repair and does not include a product warranty for the motorcycle itself. Always consult a certified Harley-Davidson technician for complex repairs or if you are unsure about any procedure.