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› Harley Davidson Softail Motorcycle Service Manual (2015 Model 99482-15)

Harley Davidson Softail

Harley Davidson Softail Motorcycle Service Manual (2015 Model 99482-15)

Comprehensive Service and Repair Instructions

INTRODUCTION

This service manual provides detailed procedures and specifications for the maintenance, repair, and overhaul of 2015 Harley Davidson Softail motorcycles, specifically model 99482-15. It is intended for qualified service technicians and individuals with a thorough understanding of motorcycle mechanics. Adherence to these instructions is crucial for ensuring the safety, reliability, and optimal performance of the motorcycle.

Always refer to the latest version of this manual and any supplementary service bulletins for the most current information.

SAFETY INFORMATION

Before performing any service or repair, read and understand all safety warnings and precautions. Failure to follow these instructions can result in serious injury, death, or damage to the motorcycle.

- **Always wear appropriate personal protective equipment (PPE)**, including safety glasses, gloves, and sturdy footwear.
- **Disconnect the battery** before working on electrical components to prevent accidental starting or electrical shock.
- **Ensure the motorcycle is stable** on a suitable stand or lift before beginning work.
- **Allow engine and exhaust components to cool** before touching them to avoid burns.
- **Use only genuine Harley Davidson parts or approved equivalents** for replacements.
- **Dispose of fluids and hazardous materials properly** according to local regulations.

PREPARATION FOR SERVICE

Proper preparation is essential for efficient and safe service procedures. This section outlines initial steps before commencing specific repairs.

1. **Position the Motorcycle:** Place the motorcycle on a level, stable surface. Use a motorcycle lift or stand to secure it upright.
2. **Clean the Work Area:** Ensure the work area is clean, well-lit, and free of obstructions.
3. **Gather Tools and Materials:** Collect all necessary tools, replacement parts, and fluids as specified for the particular service task. Refer to the relevant section of this manual for specific requirements.
4. **Disconnect Battery (if required):** For electrical work or any procedure where accidental starting is a risk, disconnect the negative battery cable first, then the positive.
5. **Document Initial Conditions:** Take photographs or notes of component routing, wiring, and hose connections before disassembly to aid reassembly.

DIAGNOSTIC PROCEDURES

This section details procedures for diagnosing common issues and verifying system functionality. Accurate diagnosis is critical before attempting repairs.

Engine Diagnostics

- **Check Engine Light (CEL) Codes:** Connect a diagnostic tool to the Data Link Connector (DLC) and retrieve any stored Diagnostic Trouble Codes (DTCs). Refer to the DTC chart for interpretation.
- **Fuel System Pressure Test:** Use a fuel pressure gauge to verify fuel pump output and regulator function. Compare readings to specifications.
- **Ignition System Test:** Inspect spark plugs, ignition coils, and wiring for damage. Perform spark tests as outlined in the electrical section.

Electrical System Checks

- **Battery Voltage Test:** Measure battery voltage with the engine off and running. Check charging system output.
- **Continuity and Resistance Checks:** Use a multimeter to test wiring harnesses and components for opens, shorts, or incorrect resistance.

MAINTENANCE PROCEDURES

Regular maintenance is crucial for the longevity and performance of your Harley Davidson Softail. Follow the recommended service intervals and procedures.

Engine Oil and Filter Change

1. Warm the engine to operating temperature, then shut it off.
2. Place a drain pan beneath the oil drain plug. Remove the drain plug and allow oil to drain completely.
3. Remove the old oil filter. Apply a thin film of new oil to the gasket of the new filter.
4. Install the new oil filter and tighten to specified torque. Reinstall the drain plug with a new O-ring and tighten to specified torque.
5. Fill the engine with the recommended type and quantity of engine oil. Check the oil level using the dipstick.

Primary Chain Adjustment

1. Remove the primary chain inspection cover.
2. With the engine cold, check the primary chain deflection at the tightest point.
3. Adjust the chain tensioner as necessary to achieve the specified deflection.
4. Reinstall the inspection cover with a new gasket.

TROUBLESHOOTING GUIDE

This section provides a guide to common problems and their potential solutions. Always perform basic checks before attempting complex repairs.

Symptom	Possible Cause	Action
Engine Fails to Start	Dead battery Faulty spark plugs No fuel delivery	Check battery charge and connections. Inspect and replace spark plugs. Verify fuel pump operation and fuel level.
Poor Engine Performance	Clogged air filter Dirty fuel injectors Incorrect spark plug gap	Clean or replace air filter. Clean or replace fuel injectors. Adjust spark plug gap or replace.
Brakes Feel Spongy	Air in brake lines Low brake fluid level Worn brake pads	Bleed brake system. Check and top up brake fluid. Inspect and replace brake pads.

TECHNICAL SPECIFICATIONS

This section provides key technical specifications for the 2015 Harley Davidson Softail model 99482-15. Always refer to these values for accurate service and component selection.

Component/Parameter	Specification
Engine Type	Air-cooled, Twin Cam 103B™
Displacement	1690 cc (103 cu in)
Fuel System	Electronic Sequential Port Fuel Injection (ESPFI)
Transmission	6-speed Cruise Drive®
Primary Drive	Chain, 34/46 ratio
Front Tire Size	D408F 130/60B16 67H
Rear Tire Size	D407 180/65B16 81H
Fuel Capacity	18.9 L (5.0 US gal)
Engine Oil Capacity	2.8 L (3.0 US qt)
Spark Plug Gap	0.99 - 1.09 mm (0.039 - 0.043 in)

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