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> Yamaha XVS650 V-Star Classic Motorcycle Service Manual (2006-2010)

Yamaha XVS650 V-Star Classic

Yamaha XVS650 V-Star Classic Motorcycle Service Manual

MODELS: 2006-2010

1. Introduction

This service manual, identified by part number LIT-11616-XV-02, is designed to provide comprehensive service, repair, and maintenance information for the Yamaha XVS650 V-Star Classic motorcycles manufactured between 2006 and 2010. It contains detailed procedures, specifications, and diagrams necessary for proper servicing and troubleshooting. This manual is intended for use by qualified technicians and experienced individuals performing maintenance and repair tasks.

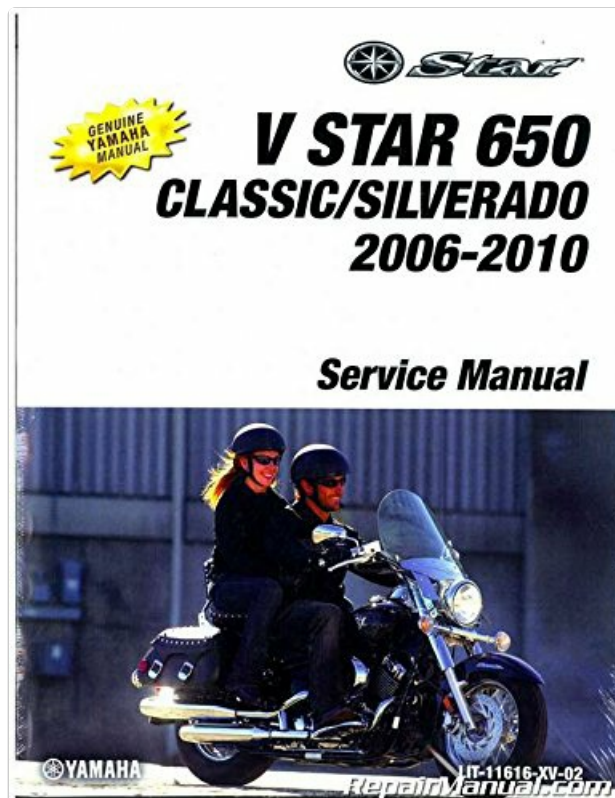


Image 1.1: Cover of the official Yamaha XVS650 V-Star Classic Motorcycle Service Manual. This manual contains all

2. Safety Information

Always prioritize safety when performing any service or maintenance on your motorcycle. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- **Read the Manual:** Thoroughly read and understand all instructions before beginning any procedure.
- **Personal Protective Equipment (PPE):** Always wear appropriate safety gear, including eye protection, gloves, and sturdy footwear.
- **Work Area:** Ensure your work area is well-lit, clean, and free of obstructions. Work on a stable, level surface.
- **Hot Components:** Allow the engine and exhaust system to cool down before working on them to prevent burns.
- **Battery Disconnection:** Disconnect the negative battery terminal before working on the electrical system to prevent accidental shorts.
- **Proper Tools:** Use only the correct tools for each task. Incorrect tools can cause damage or injury.
- **Flammable Liquids:** Handle fuel and other flammable liquids with extreme care in a well-ventilated area, away from open flames or sparks.

3. Using This Manual for Service Procedures

This manual is organized into chapters covering various systems of the motorcycle. Each chapter provides detailed information on inspection, adjustment, removal, installation, and troubleshooting procedures.

- **Chapter Navigation:** Refer to the chapter titles to locate the relevant section for the task you wish to perform.
- **Step-by-Step Instructions:** Follow all instructions sequentially. Do not skip steps.
- **Diagrams and Illustrations:** Utilize the provided diagrams and illustrations to identify components and understand assembly sequences.
- **Torque Specifications:** Always adhere to the specified torque values for fasteners. Overtightening or undertightening can lead to component failure.
- **Special Tools:** Some procedures may require special tools. Ensure you have these tools before starting the task.

4. Routine Maintenance

Regular maintenance is crucial for the longevity and safe operation of your Yamaha XVS650 V-Star Classic. This manual details all recommended service intervals and procedures.

Key maintenance areas covered include:

- Engine oil and filter replacement
- Spark plug inspection and replacement
- Air filter cleaning/replacement
- Brake system inspection and fluid replacement
- Tire pressure and wear inspection
- Drive shaft lubrication and inspection

- Cable and lever lubrication and adjustment
- Suspension inspection and adjustment

Refer to the 'Periodic Maintenance' chapter within the manual for a detailed schedule and specific instructions for each task.

5. Troubleshooting Guide

This manual includes comprehensive troubleshooting charts and procedures to help diagnose common issues. When encountering a problem, follow these general steps:

1. **Identify Symptoms:** Clearly define the problem and any associated symptoms.
2. **Consult Troubleshooting Charts:** Locate the relevant troubleshooting chart in the manual for the specific system (e.g., engine, electrical, brakes).
3. **Perform Checks:** Follow the diagnostic steps outlined in the chart, performing checks and tests as instructed.
4. **Isolate the Cause:** Systematically eliminate potential causes until the root of the problem is identified.
5. **Implement Repair:** Once the cause is found, refer to the appropriate repair section for detailed instructions on how to fix it.
6. **Verify Repair:** After completing the repair, test the motorcycle to ensure the problem is resolved and no new issues have arisen.

6. Technical Specifications

Detailed technical specifications for the Yamaha XVS650 V-Star Classic (2006-2010) are provided within this service manual. These specifications include, but are not limited to:

- Engine specifications (displacement, bore, stroke, compression ratio)
- Chassis specifications (dimensions, weight, suspension travel)
- Electrical system specifications (battery, charging system, ignition)
- Fluid capacities and types (engine oil, brake fluid, final drive oil)
- Torque specifications for all critical fasteners
- Tire sizes and recommended pressures

Always refer to the specific tables and diagrams in the manual for the most accurate and up-to-date technical data relevant to your model year.

7. Warranty and Support

For information regarding your motorcycle's warranty, please consult your original purchase documentation or contact an authorized Yamaha dealer. This service manual is a technical guide for repair and maintenance and does not contain warranty terms.

For additional technical support or inquiries not covered in this manual, it is recommended to visit the official Yamaha Motor website or contact a certified Yamaha service center. They can provide expert assistance and access to the latest service bulletins and updates.

