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> Suzuki LS650 Savage / Boulevard S40 Motorcycle Service Manual (1986-2019)

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Comprehensive Service and Repair Instructions

1. INTRODUCTION

This service manual provides detailed, step-by-step instructions for servicing and rebuilding the Suzuki LS650 Savage and Boulevard S40 motorcycles produced from 1986 to 2019. It includes comprehensive information, black and white photographs, and specifications to assist with various maintenance and repair procedures.

CYCLEPEDIA PRESS LLC

Service Manual

1986 - 2004 Suzuki LS650 Savage
2005 - 2019 Suzuki S40 Boulevard



Image 1.1: Front cover of the service manual, displaying the title and motorcycle models covered.

2. GENERAL INFORMATION

This section covers essential preliminary information for using the manual and working on the motorcycle.

- **Quick Reference:** Essential data and common procedures.
- **Special Materials:** Information on required lubricants, sealants, and other consumables.
- **Special Tools:** Details on specialized tools necessary for specific tasks.

- **Specifications:** Comprehensive technical specifications for various components.
- **Torque Specifications:** Critical torque values for fasteners throughout the motorcycle.
- **Troubleshooting:** General diagnostic procedures for common issues.
- **VIN and Engine Number Location:** Guidance on locating identification numbers.

3. PERIODIC MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your Suzuki LS650 Savage / Boulevard S40. This section outlines routine service tasks.

- Air Filter Servicing
- Automatic Decompression Cable Adjustment
- Brake Fluid Inspection and Replacement
- Brake Inspection
- Clutch Cable Adjustment
- Compression Check
- Drive Belt Inspection
- Engine Idle Speed Adjustment
- Oil and Filter Change
- Periodic Maintenance Chart
- Spark Plug Inspection and Replacement
- Steering and Suspension Inspection
- Throttle Free Play Adjustment
- Tire Inspection and Pressure Check
- Valve Clearance Adjustment

4. EXTERNAL COMPONENTS

This section details the removal, installation, and maintenance of various external parts of the motorcycle.

- Foot Pegs
- Front Fender
- Fuel Tank
- Handlebars
- Headlight Housing
- Instruments
- Rear Fender
- Seat
- Side Covers

5. FUEL SYSTEM

Instructions for servicing the carburetor and related fuel system components.

- Carburetor Assembly
- Carburetor Disassembly

- Carburetor Installation
- Carburetor Removal

6. ENGINE

Detailed procedures for engine repair, disassembly, and reassembly.

- Cam Chain Service
- Camshaft Installation
- Camshaft Removal
- Clutch Service
- Crankcase Bearings
- Crankcase Disassembly
- Crankcase Reassembly
- Crankshaft Service
- Cylinder Head Cover
- Cylinder Head Installation
- Cylinder Head Removal
- Engine Installation
- Engine Removal
- Gearshift Mechanism
- Left Side Engine Components
- Oil Pump Service
- Piston and Cylinder Service
- Right Side Engine Components
- Rocker Arms
- Transmission Assembly
- Transmission Disassembly
- Transmission Shafts
- Valves Service

7. FINAL DRIVE

Maintenance and service procedures for the final drive system.

- Drive Belt Inspection and Replacement
- Front Pulley Service
- Rear Pulley Service

8. EXHAUST SYSTEM

Instructions for the removal and installation of the exhaust system.

- Exhaust Installation
- Exhaust Removal

9. BRAKES

Service procedures for both front and rear braking systems.

Front Brakes

- Brake Caliper Service
- Front Brake Rotor Inspection and Replacement
- Master Cylinder Service

Rear Brakes

- Brake Rod and Pedal Adjustment
- Drum Brake Service

10. SUSPENSION

Maintenance and repair of the motorcycle's suspension components.

Front Suspension

- Fork Disassembly
- Fork Installation
- Fork Reassembly
- Fork Removal

Rear Suspension

- Shock Absorbers Service
- Swing Arm Service

11. STEERING

Procedures for steering system maintenance and repair.

- Steering Bearing Replacement
- Steering Installation
- Steering Removal

12. WHEELS

Service and inspection of the motorcycle's wheels and related components.

- Bearing Replacement
- Front Wheel Service
- Rear Wheel Service
- Wheel and Axle Inspection

13. ELECTRICAL SYSTEM

Detailed information on the electrical components and wiring.

- Battery Maintenance
- Charging System Diagnostics
- Fuse Locations and Replacement
- Headlight Service
- Ignition System
- Starter Motor Service
- Starter System
- Switches (Handlebar, Ignition, etc.)
- Tail and Brake Light Service
- Turn Signals Service
- Wiring Diagrams

14. TROUBLESHOOTING COMMON ISSUES

This section addresses frequently reported problems with the Suzuki LS650 Savage / Boulevard S40, providing guidance for diagnosis.

- **Carburetor Issues:** Problems related to fuel delivery and engine performance.
- **Electrical System:** Diagnostics for electrical malfunctions.
- **Rust and Corrosion:** Prevention and treatment of rust.
- **Starter Clutch Noise:** Identifying and addressing unusual noises from the starter.
- **Oil Leaks:** Locating and repairing oil leaks.
- **Vibration:** Diagnosing sources of excessive vibration.
- **Rear Shock Absorbers:** Issues related to rear suspension performance.

Regular maintenance and prompt attention to any emerging issues are key to a positive ownership experience for your Suzuki LS650 Savage / Boulevard S40.

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Image 14.1: Back cover of the service manual, including ISBN and barcode information.

15. SPECIFICATIONS

Key technical specifications for the Suzuki LS650 Savage / Boulevard S40 service manual.

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16. WARRANTY AND SUPPORT

Information regarding warranty and support for this service manual is not explicitly provided. For inquiries regarding the content or specific procedures, please refer to the publisher, Cyclepedia Press LLC, or consult an authorized Suzuki service center.

This manual is intended for informational and service purposes only. Always exercise caution and follow proper safety procedures when performing maintenance or repairs.