

2003 INDIAN® CHIEF® VINTAGE MOTORCYCLE SERVICE MANUAL



INDIAN CHIEF VINTAGE MODELS

FOREWORD

To stay in peak running condition, Indian™ motorcycles require regular maintenance in accordance with the recommendations of Indian Motorcycle Company. This manual describes all the necessary inspection and maintenance procedures that should be performed at specific intervals. It also provides the detailed troubleshooting and repair procedures necessary when problems arise or are uncovered at the recommended service intervals.

Organization and Content

The organization and content of the manual is formed around the following major sections:

GENERAL INFORMATION provides information about the major features and characteristics of the Indian Chief Vintage motorcycle. It also provides general information relating to the maintenance service and repair procedures including an explanation of the types of safety information presented.

TROUBLESHOOTING provides symptom-related diagnostic information and system and component tests. Areas covered include the basic engine, as well as emission control, ignition and fuel systems. In addition, there is coverage for chassis, drive, transmission and chassis electrical.

MAINTENANCE AND REPAIR PROCEDURES are included under the page banner headings for the respective system or component involved, for example, **FRONT SUSPENSION**, **STEERING**, etc. Under each of the respective headings, there are procedures for routine maintenance inspections and adjustments.

Procedures for removal and installation, disassembly, cleaning and inspection of component parts and assembly are included when more extensive repairs or a complete overhaul is required.

SPECIFICATIONS for all systems and components are included in one place near the end of the manual. The section provides assembly clearances and wear limits under **Fits and Tolerances**, as well as fastener torque values and specified sealants for engine, chassis and electrical systems and components.

SCHEMATICS covering chassis wiring and engine ignition and lubrication systems are included here. In addition, there are power flow diagrams for the transmission.

ASSEMBLY DRAWINGS are included for the major engine sub assemblies. These are detailed exploded views showing the relative position of components and the critical fastener torque values.

TOOLS AND EQUIPMENT provides a listing of all special tools and the corresponding tool numbers that are required to perform specific service and repair procedures in a precise, efficient and safe manner. Most of the required tools are readily available from JIMS® Machining. In addition to the tool listing, there are drawings for fabricating or modifying tools for use in servicing the engine.

Finding the Information You Need

The manual includes a Table of Contents and an alphabetical Index as well. Both listings are based on first and second level headings included in the text.



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FEATURES OF THE 2003 INDIAN CHIEF VINTAGE MOTORCYCLE

The Indian Chief motorcycle is a classic design with its heritage going back to the beginning of the twentieth century. Today, the motorcycle carries forth the tradition and craftsmanship with five models.

- Indian Chief (standard)
- Indian Chief Deluxe
- Indian Chief Roadmaster
- Indian Chief Springfield
- Indian Chief Vintage



Figure 1 — Indian Chief Vintage (right side)



Figure 2 — Indian Chief Vintage (left side)