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Birzman BM19-STUDIO-BOX

Birzman Studio Tool Box User Manual

Model: BM19-STUDIO-BOX

1. INTRODUCTION

The Birzman Studio Tool Box is a comprehensive and professional-grade tool kit designed for bicycle maintenance and repair. This robust and portable solution provides a wide array of high-quality tools, meticulously organized within a durable case, making it ideal for both home mechanics and professional workshops. This manual provides essential information for the proper use, maintenance, and care of your Studio Tool Box and its contents.



Figure 1: The Birzman Studio Tool Box, showcasing its comprehensive set of tools in an open configuration.

2. PRODUCT CONTENTS

Your Birzman Studio Tool Box includes the following specialized tools, designed for various bicycle maintenance tasks:

- **Torx Key Set:** T10, T15, T20, T25, T27, T30, T40
- **Hex Key Set:** 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm
- **Chain Wear Indicator:** For 0.5%, 0.75%, 1% wear
- **Tyre Lever Set**
- **Bladed Spoke Grip**
- **Valve Core Tool:** Compatible with Presta and Schrader valves
- **Socket T30**
- **Shimano Cartridge B.B. Tool**
- **Shimano HG Cassette Tool:** Fits Shimano & SRAM
- **Shimano MF Freewheel Tool**
- **Universal Crank Puller:** For ISIS Drive & Octalink crank arms
- **Cable Cutter**
- **Hollowtech II BB Socket:** For 16 external notches $\text{\O}44\text{mm}$, also fits rotor lock rings and Shimano BB Tool Adaptors TL-FC24 & TL-FC25
- **Socket Wrench:** For 1/2" Drive hex bit sockets
- **Crank Arm Installation Tool:** For 8-notch Hollowtech and 16mm internal hex SRAM crank caps

- **Spoke Wrench:** 12G, 13G, 14G, 15G, Shimano 4.3, 4.4
- **Chain Rivet Extractor:** For 5-12 speed, 1/8" and 3/32", single speed chains
- **Pedal Wrench:** 15mm
- **Chain Whip:** For 7-12 speed
- **Flathead Screwdriver:** 5.5mm
- **Crosshead Screwdriver:** #2
- **Combination Wrench:** 8mm, 10mm
- **File**
- **Link Pliers**
- **Hex Keys:** 14mm, 15mm
- **Shifting Spanner:** 0-33mm
- **Disc Brake Piston Press**
- **Rotor Truing Fork:** For hydraulic brake systems
- **Disc Brake Gap Indicator**
- **Threadless Saw Guide:** 1", 1 1/8", 1 1/4"
- **Threadless Nut Setting Tool:** 1/8"
- **Diagonal Pliers:** 6"
- **Chainring Nut Wrench**
- **Radio Pliers:** 6"
- **Dead Blow Hammer**
- **Tape Measure:** 3m/10ft



Figure 2: Detailed view of the upper tool tray, featuring smaller precision tools.



Figure 3: Detailed view of the lower tool tray, containing larger and specialized tools.



Figure 4: Auxiliary tool tray with additional essential maintenance tools.

3. SETUP AND ORGANIZATION

Upon receiving your Birzman Studio Tool Box, ensure all listed components are present and undamaged. The tools are pre-organized in custom-fit foam trays within the durable case. This organization is designed for quick access and easy identification of each tool.

- **Initial Inspection:** Verify all tools listed in Section 2 are present and in good condition.
- **Storage:** Always return tools to their designated slots after use to maintain organization and prevent loss or damage.
- **Portability:** The robust case is designed for easy transport. Ensure the latches are securely closed before moving the toolbox.

4. OPERATING GUIDELINES

Using the tools effectively and safely is paramount. Always select the correct tool for the task to prevent damage to the bicycle components or the tools themselves.

- **Tool Selection:** Refer to the specific bicycle component's service manual for recommended tools and procedures.
- **Proper Use:** Use tools as intended. For example, do not use a wrench as a hammer, or pliers for tasks requiring a specialized grip.
- **Torque Specifications:** For components requiring specific torque, use a torque wrench (not included) in conjunction with the appropriate socket or bit from this kit.
- **Safety:** Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when performing maintenance.

5. MAINTENANCE AND CARE

Proper maintenance of your tools will extend their lifespan and ensure their continued performance.

- **Cleaning:** After each use, wipe down tools to remove dirt, grease, and grime. A clean cloth and a mild degreaser can be used for stubborn residue.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of tools (e.g., pliers, chain rivet extractor) to prevent rust and ensure smooth operation.
- **Storage:** Store the toolbox in a dry environment, away from extreme temperatures and humidity, to prevent corrosion.
- **Inspection:** Regularly inspect tools for signs of wear, damage, or corrosion. Replace or repair damaged tools as necessary.

6. TROUBLESHOOTING

While the Birzman Studio Tool Box is designed for reliability, here are some common issues and general troubleshooting tips:

- **Stripped Fasteners:** Ensure the correct size and type of tool (e.g., Hex key, Torx key) is used. Apply firm, even pressure. If a fastener is already stripped, specialized extraction tools may be required (not included).
- **Tool Slipping:** Ensure the tool is fully seated on the fastener or component. Clean any grease or dirt from both the tool and the component.
- **Difficulty with Component Removal/Installation:** Verify you are using the correct tool for the specific component. Some components may require significant force or specialized techniques (e.g., heat application, penetrating oil) not directly related to the tool's function.
- **Tool Damage:** If a tool bends, chips, or breaks, discontinue use immediately. Using damaged tools can lead to injury or further damage to components.

7. SPECIFICATIONS



Figure 5: The Birzman Studio Tool Box in its closed, portable state.

Feature	Detail
Item Package Dimensions (L x W x H)	18.5 x 14.96 x 5.12 inches
Item Dimensions (L x W x H)	14.76 x 5.12 x 18.7 inches
Package Weight	8.8 Kilograms
Item Weight	8200 Grams
Brand Name	Birzman
Model Name	Birzman Studio Tool Box
Color	Black
Material	Aluminum, Steel, other
Number of Items	1
Manufacturer	Birzman
Part Number	BM19-STUDIO-BOX
Size	One Size
Sport Type	Cycling
Included Components	Tool Box with Tools

8. WARRANTY AND SUPPORT

The Birzman Studio Tool Box comes with a **Limited Warranty**. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty information provided at the time of purchase or visit the official Birzman website.

For technical support, replacement parts, or further inquiries, please contact Birzman customer service through their official channels. Always provide your product model number (BM19-STUDIO-BOX) and purchase details when seeking support.



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