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Baomain C511A

Baomain SPST ON-OFF Toggle Switch User Manual

Model: C511A | Brand: Baomain

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Baomain SPST ON-OFF Toggle Switch. This switch is designed for durability and reliability in various electrical systems, including household appliances, industrial equipment, and electronic projects. Please read this manual thoroughly before installation and operation.



Image 1: Baomain SPST ON-OFF Toggle Switch. This image displays the toggle switch from a front-side angle, showing the metal lever, mounting nut, and the black switch body with 'ON' and 'OFF' markings and electrical ratings.

2. PRODUCT FEATURES

- **Easy Installation:** Features a compact 2-pin SPST (Single Pole Single Throw) ON-OFF design for straightforward wiring.
- **Durable Performance:** Rated for 15A at 250V AC, ensuring stable operation in various applications.
- **Long Electrical Life:** Designed for up to 50,000 cycles, providing consistent switching performance.
- **Wide Temperature Tolerance:** Operates reliably in temperatures ranging from -25°C to 85°C (-13°F to 185°F).
- **Versatile Indoor Use:** Suitable for custom dashboards, DIY electronics projects, and home consoles where moisture exposure is not a concern.

Premium Silver Contacts

Silver-plated contacts improve high-frequency performance and stability of conductors.



2 Terminal Pins

Image 2: Premium Silver Contacts. This image highlights the silver-plated contacts on the underside of the switch, indicating improved high-frequency performance and stability.

Flame-Retardant Casing

High-temperature resistant insulated



Image 3: Flame-Retardant Casing. This image shows multiple toggle switches against a fiery background, illustrating the high-temperature resistant insulated casing material.

3. SPECIFICATIONS

Specification	Detail
Model Number	C511A
Voltage Rating	250 Volts AC
Current Rating	15 Amperes
Switch Type	SPST ON-OFF Toggle
Number of Pins	2

Terminal Type	Spade (1/4" tab)
Mounting Type	Through Hole Mount (12mm diameter)
Material	Copper, Plastic
Operating Temperature	-25°C to 85°C (-13°F to 185°F)
Electrical Life	50,000 cycles
Product Dimensions	2.47 x 1.14 x 0.59 inches; 1.12 ounces

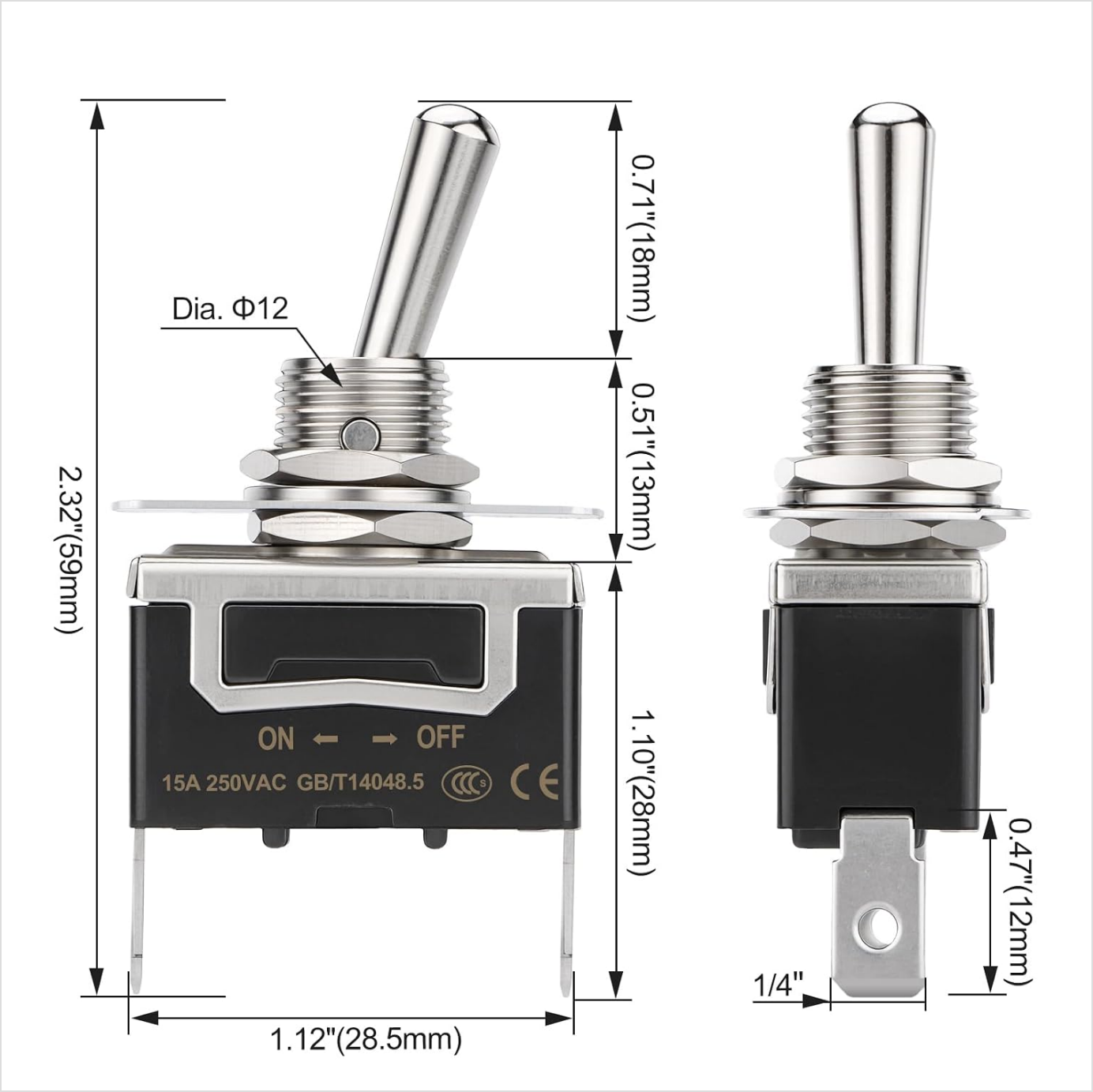


Image 4: Toggle Switch Dimensions. This diagram illustrates the physical dimensions of the toggle switch, including overall height (59mm), body length (28.5mm), mounting hole diameter (12mm), and terminal width (1/4 inch).

4. PACKAGE CONTENTS

- 1 x Baomain SPST ON-OFF Toggle Switch

5. INSTALLATION

Installation should be performed by a qualified individual familiar with electrical wiring and safety procedures. Ensure power is disconnected before beginning installation.

1. **Prepare Mounting Hole:** Drill a 12mm (approximately 0.47 inches) diameter hole in the desired mounting surface.
2. **Insert Switch:** Insert the threaded portion of the toggle switch through the prepared hole.
3. **Secure Switch:** Place the washer and nut onto the threaded portion and tighten securely to hold the switch in place.
4. **Wire Connections:** Connect your electrical wires to the 1/4" tab terminals. Ensure proper polarity and secure connections. This is an SPST (Single Pole Single Throw) switch, meaning it has two terminals for a simple ON-OFF circuit.

Product Structure

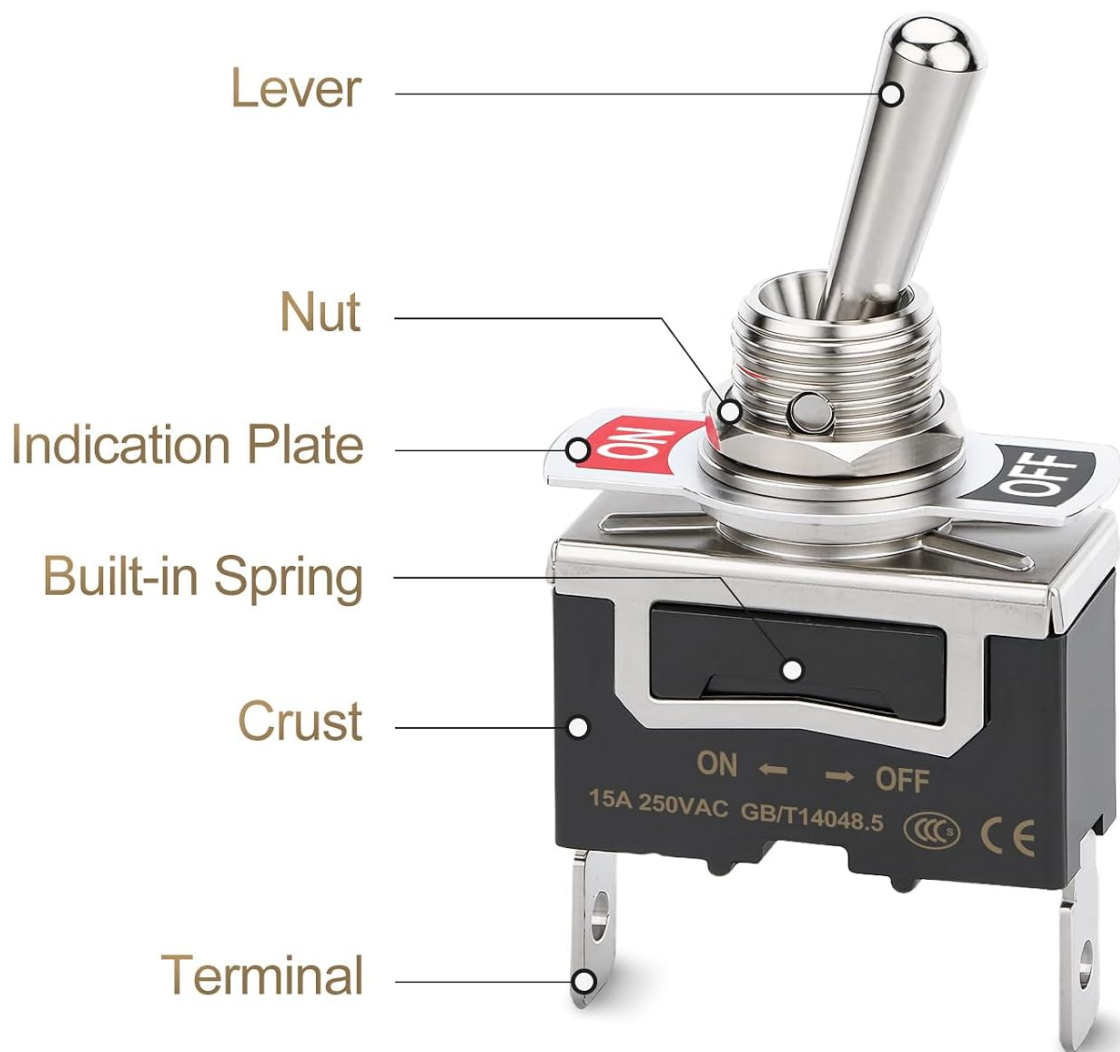


Image 5: Product Structure. This diagram labels the key components of the toggle switch: Lever, Nut, Indication Plate, Built-in Spring, Crust (body), and Terminal.

6. OPERATION

The Baomain SPST Toggle Switch operates with a simple ON-OFF mechanism. To operate:

- Move the lever to the 'ON' position to close the circuit and allow current to flow.
- Move the lever to the 'OFF' position to open the circuit and stop current flow.

STSP 2 Terminal

ON-OFF Rocker Toggle Switch, when you toggle the handle it will stay in both the ON or OFF position.



Image 6: SPST 2 Terminal Operation. This image demonstrates the ON and OFF positions of the toggle switch lever, clarifying its single-pole, single-throw functionality.

7. APPLICATIONS

This toggle switch is suitable for a wide range of applications, including but not limited to:

- Automotive and Marine systems (e.g., controlling lights, pumps)
- Household Appliances
- Industrial Equipment (e.g., control panels, machinery)

- Electronic Projects and DIY setups
- Generators and Mowers

Applications



Boat



Mower



Generator



Instrument



Image 7: Diverse Applications. This image shows examples of the toggle switch being used in a boat, a mower, a generator, and an instrument panel.

Applications

Toggle switches are commonly found in industrial equipment, automobiles, audio systems, and household appliances, where they are used to directly and reliably switch circuits on/off or change settings.



Image 8: Industrial and Audio Applications. This image illustrates the toggle switch's use in a control cabinet, music equipment, a boat dashboard, and CNC machinery.

8. SAFETY INFORMATION

- Always disconnect power to the circuit before installing, wiring, or performing maintenance on the switch.
- Ensure the switch's voltage and current ratings are compatible with your application to prevent damage or hazards.
- Do not use this switch in environments where it may be exposed to moisture or corrosive substances, as it is designed for indoor, dry applications.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- If you are unsure about any aspect of installation or wiring, consult a qualified electrician.

9. MAINTENANCE

The Baomain Toggle Switch is designed for minimal maintenance. Periodically inspect the switch and its connections for any signs of wear, damage, or loose wiring. Clean the exterior of the switch with a dry, soft cloth if necessary. Do not use

liquid cleaners or solvents.

10. TROUBLESHOOTING

- **Switch Not Functioning:**
 - Check all wiring connections for security and proper contact.
 - Verify that power is supplied to the circuit.
 - Ensure the switch's ratings (voltage/current) are not exceeded by the load.
- **Intermittent Operation:**
 - Inspect for loose connections or damaged wires.
 - Check for any physical obstruction preventing the lever from fully engaging.

If issues persist, discontinue use and consult a qualified technician or contact Baomain customer support.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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