

KPREPUBLIC BSun Litchi Switch

KPREPUBLIC BSun Litchi Linear Mechanical Keyboard Switch User Manual

Model: BSun Litchi Switch

1. INTRODUCTION

This manual provides essential information for the KPREPUBLIC BSun Litchi Linear Mechanical Keyboard Switches. It covers product features, installation instructions, usage guidelines, maintenance tips, troubleshooting, and detailed specifications to ensure optimal performance and longevity of your switches.

2. PRODUCT OVERVIEW

The KPREPUBLIC BSun Litchi Switch is a linear mechanical keyboard switch designed for a smooth and consistent keystroke. It features a milky PC housing, a black POM stem, and is factory-lubricated for enhanced performance right out of the box. These switches are suitable for mechanical keyboards that support hot-swappable or soldered switch installations.



Image 1: An angled view of a single KPREPUBLIC BSun Litchi Linear Switch, showcasing its milky white housing and black stem.



Image 2: A collection of KPREPUBLIC BSun Litchi Linear Switches, illustrating the quantity and uniform appearance of the switches.

3. SETUP AND INSTALLATION

Installing your BSun Litchi switches requires careful handling to prevent damage to the switches or your keyboard PCB.

1. **Preparation:** Ensure your keyboard PCB is clean and free of debris. If replacing existing switches, gently remove them using a switch puller.
2. **Alignment:** Align the two metal pins on the bottom of the switch with the corresponding holes on the keyboard PCB. Ensure the central stem and any additional plastic pins (if present) also align with their respective slots.
3. **Insertion:** Gently press the switch into the PCB until it clicks into place. For hot-swappable PCBs, minimal force is required. For soldered PCBs, ensure the switch is fully seated before soldering the pins.
4. **Testing:** After installing a few switches, test them using a key tester or by connecting the keyboard to a computer to ensure each switch registers correctly.

Caution: Applying excessive force during installation can bend or damage the switch pins or the PCB sockets.

4. OPERATING INSTRUCTIONS

The BSun Litchi Switch is a linear switch, meaning it provides a smooth, uninterrupted keystroke from top to bottom without any tactile bump or audible click.

- **Actuation:** The switch actuates at approximately 2.1mm of travel with an operating force of 45gf.
- **Bottom-out:** The switch bottoms out at 3.6mm of total travel with a bottom force of 55gf.

This linear characteristic is preferred by users who desire a fluid typing experience, often favored for gaming or fast typing.



Image 3: A top-down view of the BSun Litchi Switch, showing the cross-stem design for keycap compatibility.

5. MAINTENANCE

Proper maintenance can extend the lifespan and performance of your switches.

- **Cleaning:** Periodically clean your keyboard to prevent dust and debris from entering the switches. Use compressed air to dislodge particles.
- **Lubrication:** These switches are factory-lubricated. Additional lubrication is generally not required unless you prefer a different feel or are performing advanced modifications. If re-lubricating, use lubricants specifically designed for mechanical keyboard switches.
- **Storage:** Store unused switches in a dry, dust-free environment.

6. TROUBLESHOOTING

If you encounter issues with your BSun Litchi switches, consider the following:

- **Switch Not Registering:**
 - Ensure the switch is fully seated in the PCB.
 - Check for bent pins. If a pin is bent, carefully straighten it with tweezers before reinserting.
 - If using a hot-swappable PCB, try swapping the problematic switch with a known working one to isolate if the issue is with the switch or the PCB socket.
- **Inconsistent Feel:**
 - This could be due to uneven factory lubrication or debris inside the switch.
 - If comfortable, you may carefully open the switch (using a switch opener) to inspect for debris or to re-lubricate.
- **Key Chatter (Multiple Inputs):**
 - This is often a PCB issue, but can sometimes be related to a faulty switch. Try replacing the switch.

For persistent issues, contact KPREPUBLIC customer support.

7. SPECIFICATIONS

The following table details the technical specifications of the KPREPUBLIC BSun Litchi Switch:

Feature	Specification
Top Housing Material	PC
Bottom Housing Material	PC
Stem Material	POM
Switch Type	Linear
Spring Specification	Selected Spring
Spring Length	Approximately 15 mm
Operating Force	45 ± 5 gf

Feature	Specification
Bottom Force	55 ± 5 gf
Pretravel	2.1 ± 0.4 mm
Total Travel	3.6 ± 0.2 mm
Operating Life	60 Million Cycles
Factory Lubed	Yes



Image 4: An internal view of the BSun Litchi Switch, illustrating the spring, stem, and housing components.

8. WARRANTY AND SUPPORT

Warranty information for KPREPUBLIC products is typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact KPREPUBLIC customer support directly for details regarding warranty coverage and support services.

For further assistance, visit the official KPREPUBLIC website or contact their support channels.

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