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## KPREPUBLIC Kailh Box Ice Cream Brown Switch

# KPREPUBLIC Kailh Box Ice Cream Brown Switch User Manual

Model: Kailh Box Ice Cream Brown Switch

### INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your KPREPUBLIC Kailh Box Ice Cream Brown Switches. These switches are designed for mechanical keyboards, offering a pre-advanced tactile feel with durable POM housing and stem materials.

### PRODUCT OVERVIEW



A single KPREPUBLIC Kailh Box Ice Cream Brown Switch, showcasing its brown stem and cream-colored housing. This is the primary view of the switch.



A collection of KPREPUBLIC Kailh Box Ice Cream Brown Switches, demonstrating the quantity and consistency of the product.



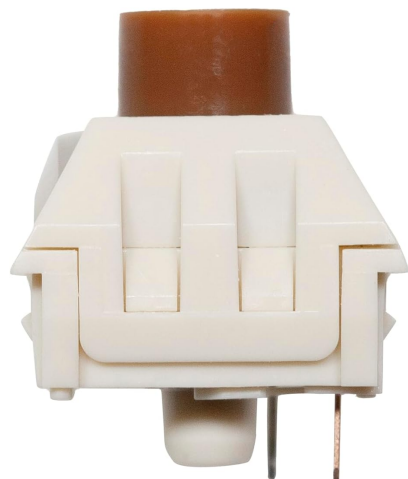
Side profile of the KPREPUBLIC Kailh Box Ice Cream Brown Switch, highlighting the housing design and the stem's position.



Top-down view of the KPREPUBLIC Kailh Box Ice Cream Brown Switch, showing the cross-shaped stem compatible with MX-style keycaps.



Bottom view of the KPREPUBLIC Kailh Box Ice Cream Brown Switch, revealing the PCB mount pins and the central pole for stability.



An exploded view of the KPREPUBLIC Kailh Box Ice Cream Brown Switch, illustrating its internal components including the stem, spring, and housing parts.

## SETUP AND INSTALLATION

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These switches are designed for mechanical keyboards that support hot-swappable switches or require soldering for installation. Ensure your keyboard is compatible before proceeding.

### For Hot-Swappable Keyboards:

- 1. Prepare your keyboard:** Ensure your keyboard is powered off and unplugged from your computer.
- 2. Remove existing keycaps:** Use a keycap puller to carefully remove the keycaps from the switches you intend to replace.
- 3. Remove existing switches:** Use a switch puller tool to gently unclip and pull out the old switches from the PCB. Apply even pressure to avoid bending pins.
- 4. Install new switches:** Align the pins of the KPREPUBLIC Kailh Box Ice Cream Brown Switch with the holes on the PCB. Gently push the switch down until it clicks into place. Ensure the pins are straight and not bent.
- 5. Test switches:** Before replacing keycaps, plug in your keyboard and test each new switch to ensure it registers correctly.
- 6. Reattach keycaps:** Once all switches are installed and tested, reattach your keycaps.

### For Soldering Installation:

- 1. Prepare your PCB:** Ensure your keyboard PCB is clean and ready for soldering.
- 2. Position switches:** Insert the KPREPUBLIC Kailh Box Ice Cream Brown Switches into the designated spots on the PCB. Ensure they sit flush.
- 3. Solder pins:** Carefully solder each pin of the switch to the corresponding pad on the PCB. Use appropriate soldering techniques to ensure strong, clean connections.
- 4. Test and assemble:** After soldering, test the switches for functionality. Then, proceed with assembling the keyboard case and attaching keycaps.

## OPERATING PRINCIPLES

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The KPREPUBLIC Kailh Box Ice Cream Brown Switch is **tactile** mechanical switch. This means it provides a noticeable bump during the keypress, indicating actuation, without producing an audible click sound. This tactile feedback is designed to enhance typing accuracy and feel.

- **Actuation:** The switch actuates (sends a signal to the keyboard) when the stem travels approximately 2.0mm.
- **Tactile Bump:** The tactile bump occurs before the actuation point, providing feedback that the keypress has registered.
- **Reset Point:** The switch resets and is ready for another press when the stem returns to its original position.
- **Key Travel:** The total distance the stem can travel is 3.6mm.

## MAINTENANCE AND CARE

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

- **Regular Cleaning:** Periodically remove keycaps and use compressed air to clear dust and debris from around the switches. A soft brush can also be used.

- **Avoid Liquid Spills:** Liquids can damage the internal components of the switches. In case of a spill, immediately unplug the keyboard, remove keycaps, and allow it to dry completely before re-use. For severe spills, professional cleaning or switch replacement may be necessary.
- **Lubrication (Optional):** For advanced users, switches can be carefully disassembled and lubricated with specialized switch lubricants to alter their feel and sound. This should only be attempted by experienced individuals as improper lubrication can degrade performance.
- **Gentle Handling:** When installing or removing switches, always use appropriate tools and apply gentle, even pressure to avoid bending pins or damaging the switch housing.

## TROUBLESHOOTING

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If you encounter issues with your KPREPUBLIC Kailh Box Ice Cream Brown Switches, consider the following:

- **Switch Not Registering:**
  - Ensure the switch is fully seated in the hot-swap socket or properly soldered.
  - Check for bent pins on the switch. If a pin is bent, carefully straighten it with tweezers before reinserting.
  - Test the switch in another socket if possible to rule out a PCB issue.
- **Inconsistent Feel/Sound:**
  - This can sometimes be due to manufacturing variations, but also check for debris inside the switch.
  - Ensure the keycap is properly seated and not rubbing against the switch housing or adjacent keycaps.
  - If you have lubricated the switches, ensure even application.
- **Keycap Wobble:**
  - Some keycap wobble is normal. Excessive wobble might indicate a loose keycap stem or a slightly loose switch stem.
  - Try a different keycap to see if the issue persists.

If problems persist, contact KPREPUBLIC customer support for further assistance.

## SPECIFICATIONS

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Feature	Specification
Brand	KPREPUBLIC
Model	Kailh Box Ice Cream Brown Switch
Switch Type	Pre Advanced Tactile
Top Housing Material	POM
Bottom Housing Material	POM
Stem Material	POM
Spring Length	About 19 mm
Operating Force	37±10gf
Bottom Force	50±10gf

Feature	Specification
Pretravel	2.0±0.4mm
Total Travel	3.6±0.4mm
Operating Life	50 Million Cycles
Operation Mode	Mechanical
Terminal	Through Hole
Mounting Type	PCB Mount
Country of Origin	China

## WARRANTY INFORMATION

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Warranty terms for KPREPUBLIC products are typically provided by the manufacturer or the point of purchase. Please refer to the documentation included with your purchase or visit the official KPREPUBLIC website for detailed warranty information. Keep your proof of purchase for any warranty claims.

## SUPPORT

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For technical support, product inquiries, or assistance with your KPREPUBLIC Kailh Box Ice Cream Brown Switches, please contact KPREPUBLIC directly through their official website or customer service channels. Provide your product model number and any relevant purchase details when seeking support.

**Manufacturer:** KPREPUBLIC

