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› RK ROYAL KLUDGE R65 Wired Mechanical Keyboard User Manual

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RK ROYAL KLUDGE R65 Wired Mechanical Keyboard User Manual

Model: R65

1. INTRODUCTION

The RK ROYAL KLUDGE R65 is a 60% wired mechanical keyboard designed for gaming and typing, featuring a gasket-mounted structure, RGB backlighting, a programmable knob, MDA profile PBT keycaps, and hot-swappable switches. This manual provides detailed instructions for setting up, operating, and maintaining your keyboard.



2. PACKAGE CONTENTS

Verify that all items are present in the package:

- RK R65 Gaming Keyboard (x1)
- USB-C Cable (x1)
- Keycap & Switch Puller (x1)
- Spare Cream Switches (x4)
- User Manual (x1)



Figure 2: Included accessories with the RK R65 keyboard.

3. SETUP

To set up your RK ROYAL KLUDGE R65 keyboard:

1. Connect the provided USB-C cable to the USB-C port on the keyboard.
2. Connect the other end of the USB-C cable to an available USB port on your computer or gaming console.
3. The keyboard will be automatically recognized by your operating system (Windows or macOS) and will be ready for use.

4. OPERATING INSTRUCTIONS

4.1. Volume Knob Functionality

The metal knob located on the top right of the keyboard provides convenient control over audio settings:

- **Rotate Clockwise:** Increases system volume.
- **Rotate Counter-clockwise:** Decreases system volume.
- **Press:** Toggles mute/unmute for system audio.

Quality Aluminum Metal Knob



Clockwise:
volume+



Counterclockwise
volume-



Press
Sound on/off



Figure 3: Detail of the aluminum volume knob.

4.2. RGB Backlight Control

The keyboard features dynamic RGB backlighting with over 20 built-in modes. Specific key combinations (often involving the Fn key) are used to cycle through modes, adjust brightness, and change speed. Refer to the included quick start guide for default key combinations.

Program with QMK/VIA

Highly Customize Your Keyboard



Figure 4: RGB backlighting in action on the keyboard.

4.3. Indicator Lights

Three indicator lights are located near the arrow keys to provide visual feedback on keyboard status:

- **Caps Lock:** Indicates when Caps Lock is active.
- **Win Lock:** Indicates when the Windows key is locked.
- **Mac OS:** Indicates when the keyboard is in macOS mode.



Figure 5: Keyboard indicator lights.

5. CUSTOMIZATION

5.1. Hot-Swappable Switches

The RK R65 features a high-quality PCB board compatible with 3-pin and 5-pin mechanical switches. This allows users to easily change switches without soldering, enabling a high degree of customization for typing feel and sound. The keyboard comes pre-installed with RK's customized pre-lubricated linear cream switches, known for their creamy sound and smooth keystroke.



Figure 6: Hot-swappable switch functionality.

5.2. MDA Profile PBT Keycaps

The keyboard is equipped with MDA profile PBT keycaps. These keycaps are manufactured using double-shot technology, providing a matte surface that resists fading and offers enhanced durability and a longer lifespan. The MDA profile is designed for a comfortable tactile experience and an aesthetically pleasing appearance.



Figure 7: MDA Profile PBT Keycaps.

5.3. QMK/VIA Programmability

The RK R65 supports QMK/VIA programming, an open-source software that allows for extensive customization of keyboard functions. Through VIA software, you can:

- Edit macros to combine multiple shortcuts into one key.
- Customize RGB effects and colors.
- Redefine individual keys for personalized layouts.
- Redefine the knob's functions (e.g., volume adjustment, backlight control).

To utilize QMK/VIA, visit usevia.app and load the layout file for the RK R65. The layout file can typically be found at the address provided in the product documentation or on the manufacturer's website.

RK65 Series



Figure 8: QMK/VIA programming interface.

6. KEY FEATURES OVERVIEW

6.1. Gasket Mount Structure

The RK R65 employs a gasket mount design with five layers of sound-absorbing material, including Poron cotton between the PCB and casing. This construction effectively reduces noise and vibration, optimizing switch acoustics for a comfortable and soft typing experience.

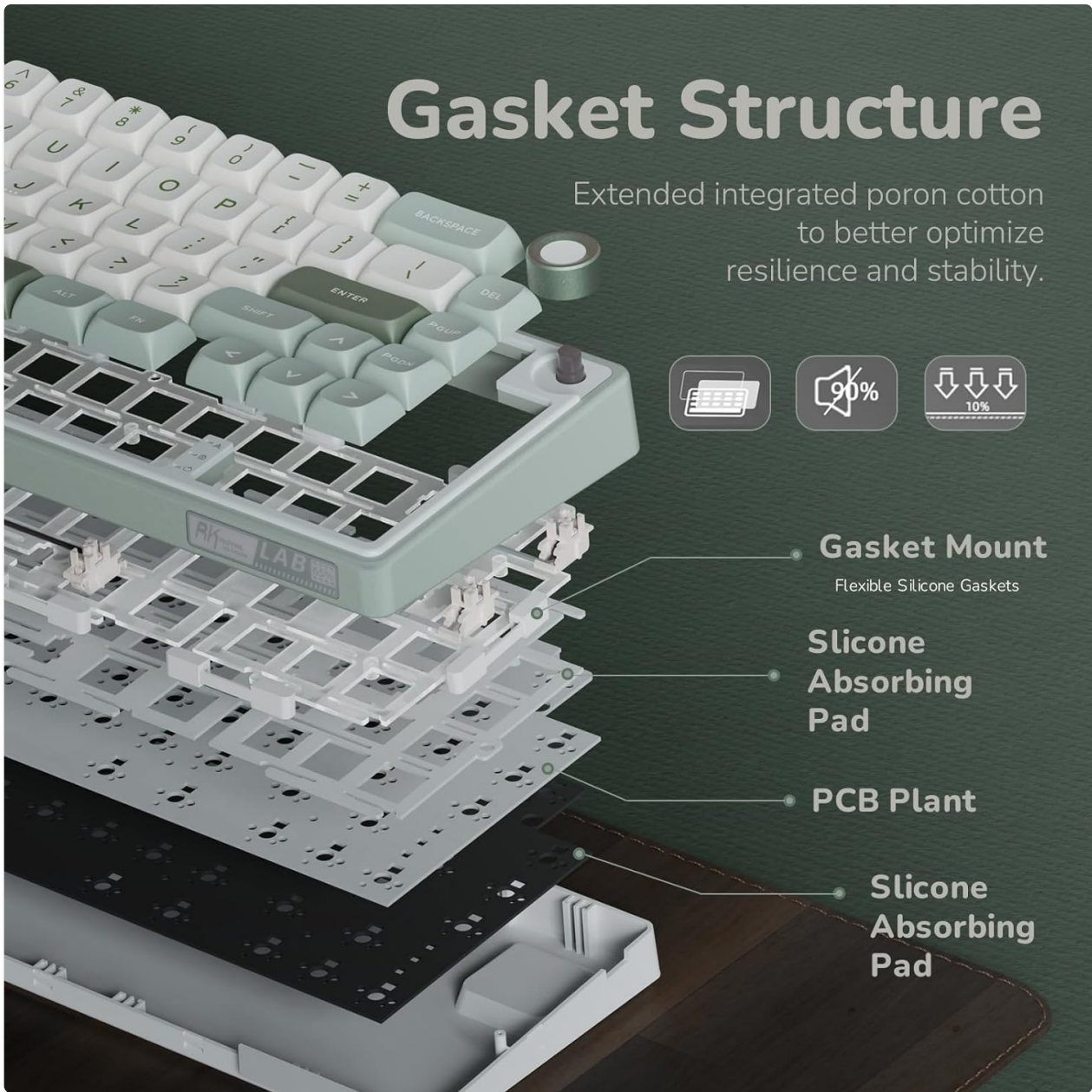


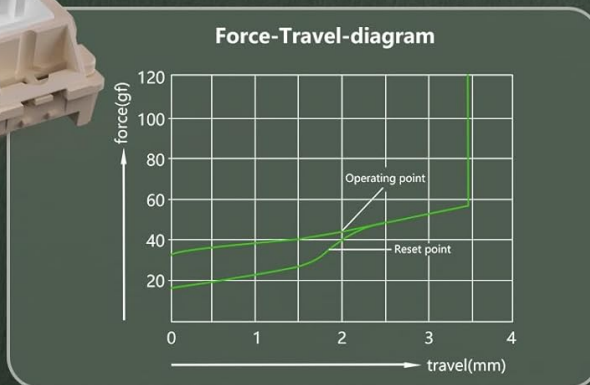
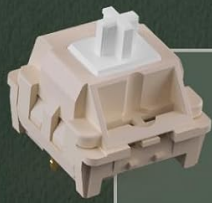
Figure 9: Gasket mount structure diagram.

6.2. Custom Cream Switches

The pre-lubed cream switches are linear switches designed to provide a unique, creamy sound and an excellent smooth keystroke feel. Their specifications include an operating force of $45 \pm 10 \text{gf}$, a conduction stroke of $2.0 \pm 0.4 \text{mm}$, and a total travel of $3.4 \pm 0.4 \text{mm}$, ensuring consistent performance for up to 8 million clicks.

Custom Cream Switch

Linear Feeling, Stable Triggering, 8 Millions Clicks



OPERATING FORCE

45±10gf

CONDUCTION STROKE

2.0±0.4mm

TOTAL TRAVEL

3.4±0.4mm



Figure 10: Cream switch force-travel diagram and specifications.

6.3. Compact 60% Layout

The 60% layout of the RK R65 offers a portable and lightweight design, making it suitable for various setups and travel. Despite its compact size, it integrates essential features like a programmable knob and indicator lights, which are often absent in similar form factors.

Your browser does not support the video tag.

Video 1: An overview of the RK ROYAL KLUDGE R65 RGB Gaming Keyboard, showcasing its design and features.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	12.68 x 4.61 x 1.57 inches (12.6"L x 4.6"W x 1.6"H)
Item Weight	1.41 pounds

Manufacturer	RK ROYAL KLUDGE
Item Model Number	R65
Compatible Devices	Gaming Console, Laptop, PC
Connectivity Technology	USB-C
Keyboard Description	Gaming, Mechanical
Recommended Uses	Gaming, Multimedia, Personal, Student, Typing
Special Features	Backlit, Ergonomic, Hot-Swappable, MDA Profile PBT Keycaps, Volume Knob
Keyboard Backlighting	RGB
Style	Gaming

8. MAINTENANCE

To ensure the longevity and optimal performance of your keyboard, follow these maintenance guidelines:

- **Cleaning Keycaps:** Use a soft, damp cloth to wipe down keycaps. For deeper cleaning, remove keycaps using the provided puller and wash them with mild soap and water. Ensure they are completely dry before reattaching.
- **Cleaning Switches:** Use compressed air to remove dust and debris from between the switches. For hot-swappable switches, you can carefully remove them for cleaning if necessary.
- **General Cleaning:** Keep the keyboard free from dust and spills. Avoid eating or drinking directly over the keyboard.
- **Cable Care:** Avoid sharp bends or excessive pulling on the USB-C cable to prevent damage.

9. TROUBLESHOOTING

If you encounter issues with your RK ROYAL KLUDGE R65 keyboard, refer to the following common troubleshooting steps:

- **Keyboard Not Responding:** Ensure the USB-C cable is securely connected to both the keyboard and your computer. Try connecting to a different USB port or using a different USB-C cable.
- **RGB Backlight Not Working/Incorrect:** Check the keyboard's manual for specific key combinations to reset RGB settings or cycle through modes. Ensure QMK/VIA software settings are correctly configured if custom profiles are in use.
- **Keys Not Registering:** If individual keys are not working, carefully remove the keycap and switch using the provided puller. Inspect the switch for any visible damage or debris. If the switch is faulty, replace it with one of the spare switches or a compatible replacement.
- **Volume Knob Not Functioning:** Verify that the keyboard is properly connected and recognized by your system. If using QMK/VIA, ensure the knob's functions are correctly mapped.
- **Software Issues (QMK/VIA):** Ensure you are using the correct VIA software version and have loaded the appropriate JSON layout file for the RK R65. Restart the software and keyboard if issues persist.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact RK ROYAL KLUDGE directly. You can reach out through the following methods:

- **Amazon Store:** Visit the [RK ROYAL KLUDGE store on Amazon](#) and click "Ask a question" at the top right to contact customer service.
- **Email:** Send an email to support_RK_ROYAL@163.com.