

BOYI GMK104

BOYI GMK104 Barebones Mechanical Keyboard Kit User Manual

Model: GMK104

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your BOYI GMK104 Barebones Mechanical Keyboard Kit. The GMK104 is a full-size (104-key) customizable keyboard kit featuring tri-mode connectivity (Bluetooth 5.0, 2.4GHz wireless, and USB Type-C wired), a gasket-mounted design, hot-swappable PCB, south-facing RGB backlighting, a smart display screen, and a multi-functional knob. It supports QMK/VIA for advanced customization.

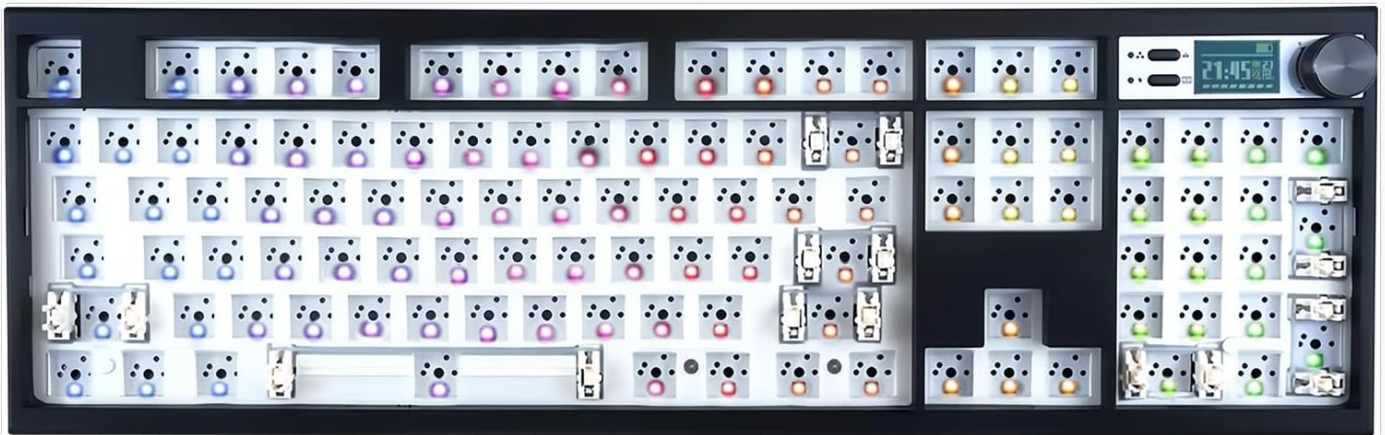


Image: The GMK104 barebones keyboard kit, showcasing its layout and hot-swappable sockets.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- GMK104 Barebones Keyboard Kit (104-key PCB, case, plate, dampening materials)
- USB Type-C Cable
- 2.4GHz Wireless Receiver
- Keycap Puller



Image: A keycap puller, an essential tool for installing and removing keycaps.

3. SETUP INSTRUCTIONS

3.1 Installing Switches and Keycaps

1. **Prepare Switches:** Ensure your mechanical switches are 3-pin or 5-pin compatible. Align the pins carefully.
2. **Insert Switches:** Gently push each switch into the hot-swap socket on the PCB until it clicks into place. Ensure pins are straight to avoid bending.
3. **Install Keycaps:** Place the desired keycaps onto the installed switches. Use the included keycap puller for easier installation and removal.



Image: A close-up view of the keyboard's PCB with hot-swappable sockets and pre-lubricated stabilizers, ready for switch installation.

3.2 Connectivity Modes

The GMK104 supports three connection modes:

- **Wired (USB Type-C):** Connect the keyboard to your computer using the provided USB-C cable. The keyboard will automatically switch to wired mode and begin charging.
- **2.4GHz Wireless:** Insert the 2.4GHz receiver into a USB port on your computer. Switch the keyboard to 2.4GHz mode using the switch on the back or side of the keyboard (refer to specific model for exact location).
- **Bluetooth 5.0:** The keyboard supports up to three Bluetooth devices.

1. Switch the keyboard to Bluetooth mode.
2. Press **FN + Q**, **FN + W**, or **FN + E** to select a Bluetooth channel. The corresponding key will flash, indicating pairing mode.

3. On your device, search for "GMK104" in the Bluetooth settings and connect. The key will stop flashing once connected.

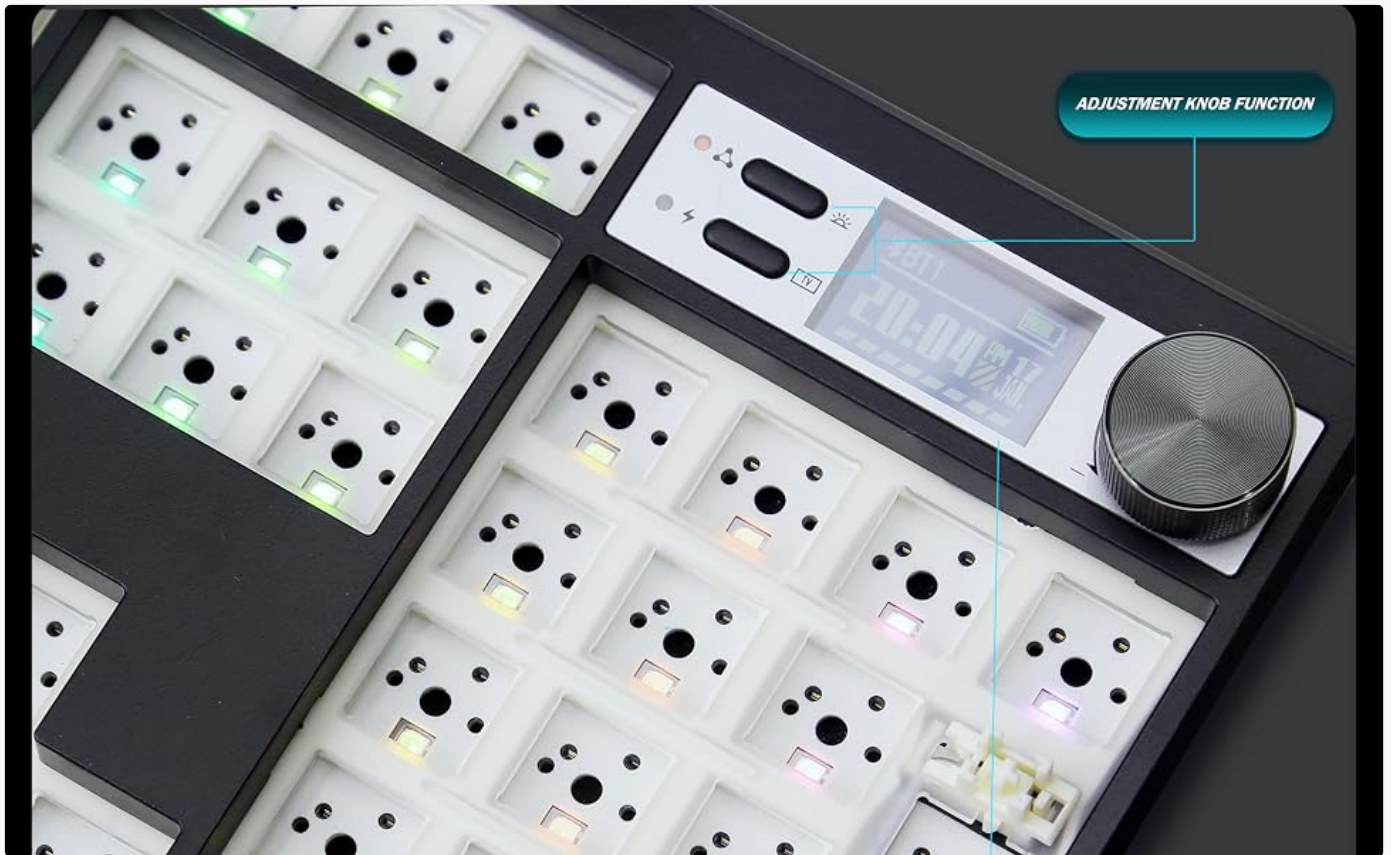


Image: Visual representation of the keyboard's tri-mode connectivity, including USB-C, 2.4GHz wireless, and Bluetooth, connecting to various devices like laptops, tablets, and smartphones.

4. OPERATING INSTRUCTIONS

4.1 Smart Display and Knob Functions

The keyboard features a smart display screen and a multi-functional knob located in the upper right corner.

- **Display Screen:** Shows time, date, battery status, and connection mode. It can also display custom images or GIFs.
- **Knob:** By default, rotates to adjust system volume. Pressing the knob typically mutes/unmutes audio.
- **Multimedia Buttons:** Two buttons adjacent to the screen control backlight effects and screen display options.



Image: A detailed view of the integrated smart display screen showing time and battery, alongside the textured multi-functional knob and two control buttons.

4.2 RGB Backlighting

The keyboard features south-facing RGB backlighting with various effects.

- Press **FN + ** to cycle through different RGB lighting effects.
- Use the dedicated multimedia button next to the screen to adjust backlight brightness or toggle effects.

4.3 QMK/VIA Programming

The GMK104 is fully programmable using QMK/VIA software, allowing you to remap keys, create macros, and customize lighting effects.

- Download the VIA software from the official website.
- Connect the keyboard in wired mode.
- Use the VIA interface to customize key assignments, layers, and lighting.



Image: A screenshot illustrating the VIA software interface, showing key remapping and customization options for the keyboard layout.

4.4 Battery Management

The keyboard is equipped with a 4000mAh battery for extended wireless use.

- The smart display shows the current battery level.
- Connect the USB-C cable to charge the keyboard. It can be used while charging.
- To conserve battery, the screen can be turned off using the dedicated multimedia button.

5. MAINTENANCE

5.1 Cleaning

- Disconnect the keyboard from all power sources before cleaning.
- Use a soft, dry cloth to wipe the surface of the keyboard.
- For deeper cleaning, remove keycaps using the keycap puller and use compressed air to clear debris from between switches.
- Avoid using harsh chemicals or abrasive materials.

5.2 Switch and Keycap Replacement

Thanks to the hot-swappable PCB, switches and keycaps can be easily replaced without soldering.

- Use the keycap puller to gently remove keycaps.
- Use a switch puller (not included) to carefully remove switches from the PCB.
- Insert new switches and keycaps as described in Section 3.1.

6. TROUBLESHOOTING

- **Keyboard not responding:** Ensure the keyboard is charged and properly connected (wired, 2.4GHz receiver, or Bluetooth paired). Try switching between connection modes.
- **Keys not registering:** Check if switches are fully seated in their sockets. Remove and re-insert the switch if necessary. Ensure switch pins are not bent.
- **Bluetooth connection issues:** Ensure the keyboard is in Bluetooth pairing mode (FN+Q/W/E). Forget the device on your computer/device and re-pair. Ensure no interference from other wireless devices.
- **RGB lighting not working:** Check if the lighting is turned off or set to minimum brightness. Cycle through lighting effects using FN + \ | or the dedicated button.
- **VIA software not detecting keyboard:** Ensure the keyboard is connected via USB-C cable. Restart the VIA software and/or your computer.

7. SPECIFICATIONS

Feature	Detail
Model Number	GMK104
Connectivity	Bluetooth 5.0, 2.4GHz Wireless, USB Type-C Wired
Layout	Full Size (104 Keys)
Mounting Style	Gasket Mounted
Hot-Swappable	Yes (3-pin/5-pin switches)
Backlighting	South-Facing RGB
Programmability	QMK/VIA Compatible
Battery Capacity	4000mAh
Special Features	Smart Display Screen, Multi-functional Knob
Compatible OS	Windows, macOS
Product Dimensions	10"L x 4"W x 1"H (approx.)
Item Weight	1.5 pounds (approx.)

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official BOYI website or contact customer service directly.

Contact Information:

- Email: boyiservice2020@163.com
- Amazon Store: Visit the [BOYI Store on Amazon](#) and click "Ask a question" to contact us.

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Question

Example: How do I reset this device or fix this error?

Details

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

Submit question