BOYI GMK98

BOYI GMK98 Barebones Mechanical Keyboard Instruction Manual

Model: GMK98

1. Introduction

The BOYI GMK98 is a 96% layout barebones mechanical keyboard kit designed for customization. It features tri-mode connectivity (Bluetooth 5.0, 2.4GHz wireless, and USB Type-C wired), QMK/VIA programmability, a gasket-mounted design, hot-swappable PCB, south-facing RGB LEDs, and a customizable TFT-LCD screen. This manual provides instructions for setting up, operating, maintaining, and troubleshooting your GMK98 keyboard kit.

2. Package Contents

Before you begin, please ensure all items are present in your package:

- GMK98 Barebones Keyboard Kit
- Keycap Puller
- USB Cable (Type-C)
- 2.4G Receiver
- User Manual (this document)

3. Setup Guide

3.1 Installing Switches and Keycaps

The GMK98 is a barebones kit, meaning switches and keycaps are not pre-installed. The PCB supports 3-pin and 5-pin hot-swappable mechanical switches, allowing for easy installation without soldering.

1. **Switch Installation:** Align the pins of your desired mechanical switch with the holes on the PCB. Gently press the switch until it clicks into place. Ensure the pins are straight to avoid bending.
2. **Keycap Installation:** Place the keycaps onto the installed switches, ensuring they are firmly seated. Use the provided keycap puller for easy removal if needed.



Image: An assembled BOYI GMK98 keyboard with pink keycaps, demonstrating a customized build.

3.2 Initial Charging

Before first use, connect the keyboard to a USB power source using the provided Type-C cable to fully charge the internal 4000mAh battery. The TFT-LCD screen will indicate charging status.

3.3 Connectivity Modes

The GMK98 supports three connection methods: Bluetooth 5.0, 2.4GHz wireless, and wired USB Type-C.



Image: A close-up of the barebones keyboard highlighting the three connection methods: wired, 2.4G wireless, and Bluetooth.

- **Wired Mode:** Connect the keyboard directly to your computer using the USB Type-C cable. The keyboard will automatically switch to wired mode.
- **2.4GHz Wireless Mode:** Insert the 2.4G receiver into a USB port on your computer. Press **FN + R** on the keyboard to switch to 2.4GHz mode. The keyboard will attempt to connect to the receiver.
- **Bluetooth Mode:** The keyboard supports up to three Bluetooth devices. Press **FN + Q**, **FN + W**, or **FN + E** to select a Bluetooth channel. For first-time pairing, hold the selected FN key combination until the indicator light flashes, then search for 'GMK98' on your device's Bluetooth settings and connect.

4. Operating Instructions

4.1 TFT-LCD Screen Functions

The integrated TFT-LCD screen displays important information such as connection method, battery level, and time. It also supports custom images or GIF animations.



Image: A detailed view of the keyboard's customizable LED screen, showing connection status, battery, and time display.

4.2 QMK/VIA Programmability

The GMK98 keyboard is fully programmable via QMK/VIA software, allowing you to remap keys, create macros, and customize lighting effects. This feature is compatible with both Windows and macOS environments.

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



Image: A visual representation of the VIA software interface used for programming the GMK98 keyboard, shown above a barebones keyboard.

4.3 RGB Backlighting

The keyboard features south-facing RGB backlighting. You can cycle through various lighting effects by pressing **FN +** | (backslash key).



Image: A close-up view of the keyboard's PCB with switches installed, showcasing the vibrant RGB backlighting.

4.4 Multimedia and Function Keys

The GMK98 includes a full set of function keys (F1-F12) and a Numpad. Press **FN + (F1~F12)** to quickly activate multimedia functions or other pre-programmed actions.

5. Maintenance

5.1 Cleaning the Keyboard

- 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 provided keycap puller and use compressed air to clear debris from between switches.
- Avoid using harsh chemicals or abrasive materials that could damage the keyboard's finish or components.

5.2 Replacing Switches and Keycaps

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

- Use a switch puller (not included, but often comes with switches) to carefully remove switches.
- Use the provided keycap puller to remove keycaps.
- Install new switches and keycaps as described in Section 3.1.

6. Troubleshooting

6.1 Keyboard Not Responding

- **Wired Mode:** Ensure the USB Type-C cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.
- **2.4GHz Wireless Mode:** Verify the 2.4G receiver is properly inserted and the keyboard is set to 2.4GHz mode (FN+R). Try re-pairing by pressing FN+R.
- **Bluetooth Mode:** Check if the keyboard is paired correctly (FN+Q/W/E). Ensure Bluetooth is enabled on your device. Try re-pairing the keyboard.
- **Battery:** Ensure the keyboard has sufficient charge. Connect it to a power source.

6.2 RGB Backlight Not Working

- Press **FN +** | to cycle through lighting effects.
- Check VIA software settings to ensure RGB is enabled and configured correctly.

6.3 Keys Not Registering

- Ensure switches are fully seated in the PCB.
- If a specific key is not working, try swapping its switch with a known working switch to determine if the issue is with the switch or the PCB socket.
- Check VIA software for any accidental key remappings.

7. Specifications

Model	GMK98
Layout	96% (98 Keys with Numpad)
Connectivity	Bluetooth 5.0, 2.4GHz Wireless, USB Type-C Wired
Battery Capacity	4000mAh
Programmability	QMK/VIA Compatible

Switch Compatibility	3-pin/5-pin Hot-Swappable
LEDs	South-Facing RGB
Special Features	TFT-LCD Screen, Gasket Mounted Design, Anti-Ghosting
Compatible OS	Windows, macOS
Product Dimensions	15.9"L x 5.7"W x 1.2"H
Item Weight	1 pound

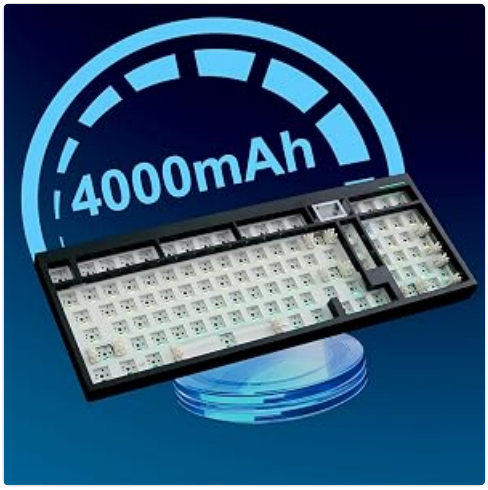


Image: A diagram illustrating the dimensions of the BOYI GMK98 barebones keyboard.

8. Warranty and Support

For warranty information and technical support, please refer to the official BOYI website or contact your retailer. Keep your purchase receipt for warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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