**EPOMAKER TH80**

# EPOMAKER TH80 Pro 75% Mechanical Gaming Keyboard User Manual

Model: TH80 Pro

## 1. INTRODUCTION

The EPOMAKER TH80 Pro is a high-performance 75% layout mechanical gaming keyboard designed for versatility and customization. It features a compact design, hot-swappable switches, tri-mode connectivity (Bluetooth 5.0, 2.4GHz wireless, and USB-C wired), PBT keycaps, and vibrant RGB backlighting. This manual provides instructions for setting up, operating, maintaining, and troubleshooting your TH80 Pro keyboard.

Image: The EPOMAKER TH80 Pro keyboard showcasing its 75% layout and key features like hot-swappable design, tri-mode connectivity, and RGB backlighting.

## 2. PACKAGE CONTENTS

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

- EPOMAKER TH80 Pro Mechanical Keyboard
- USB-C to USB-A Cable
- Keycap Puller
- Switch Puller
- Extra Switches (quantity may vary)
- 2.4GHz USB Receiver (stored in the keyboard)
- User Manual (this document)

Image: Contents of the EPOMAKER TH80 Pro package, including the keyboard, USB cable, keycap puller, and user manual.

## 3. SETUP AND CONNECTIVITY

### 3.1 Powering On and Charging

Locate the power switch on the underside of the keyboard. Slide it to the 'ON' position to power on the device. To charge the keyboard, connect the provided USB-C cable to the keyboard's USB-C port and the other end to a USB power source. The keyboard features a 4000mAh battery for extended use.

Image: Underside of the EPOMAKER TH80 Pro keyboard, showing the power switch and the storage slot for the 2.4GHz USB receiver.

## 3.2 Connectivity Modes

The TH80 Pro supports three connectivity modes:

- **USB-C Wired Mode:** Connect the keyboard directly to your device using the USB-C cable. This mode also charges the keyboard.
- **2.4GHz Wireless Mode:** Insert the 2.4GHz USB receiver into an available USB port on your computer. The keyboard will automatically connect. The polling rate can reach up to 1000Hz in this mode.
- **Bluetooth 5.0 Mode:** The keyboard can connect to up to three Bluetooth devices.

Image: Diagram illustrating the tri-mode connectivity options of the EPOMAKER TH80 Pro, including USB-C wired, Bluetooth, and 2.4GHz wireless, connecting to various devices like PC, laptop, tablet, and smartphone.

### Bluetooth Pairing Instructions:

1. Ensure the keyboard is powered on.
2. Press **Fn + 1**, **Fn + 2**, or **Fn + 3** to select a Bluetooth channel. The corresponding key will flash rapidly, indicating pairing mode.
3. On your device, search for Bluetooth devices and select "TH80 Pro" to connect.
4. Once connected, the key will stop flashing and remain steadily lit.

## 4. OPERATING THE KEYBOARD

### 4.1 Basic Key Functions

The TH80 Pro features a 75% layout, providing essential keys while maintaining a compact form factor. Standard alphanumeric keys, function row (F1-F12), navigation keys (Page Up, Page Down, Home, End via Fn combinations), and arrow keys are present.

## 4.2 RGB Backlighting Control

The keyboard features customizable RGB backlighting. Use the following shortcuts to control the lighting effects:

- **Fn + Backspace:** Turn on/off backlighting.
- **Fn + |\:** Toggle through different RGB lighting effects.
- **Fn + P:** Toggle through different RGB lighting colors.



Image: The EPOMAKER TH80 Pro keyboard displaying its vibrant RGB backlighting, with an overlay showing key combinations for controlling backlight functions.

## 4.3 Knob Control

The rotary knob located on the top right of the keyboard serves multiple functions:

- **Rotate:** Adjusts system volume.
- **Press:** Mutes/unmutes audio.

## 4.4 Programmable Software

The TH80 Pro is compatible with dedicated software for advanced customization. This software allows you to:

- Edit macros.
- Customize RGB lighting effects.
- Remap keys.
- Redefine knob functions.

The software is compatible with Windows and Mac OS. Please visit the official EPOMAKER website to download the latest version.
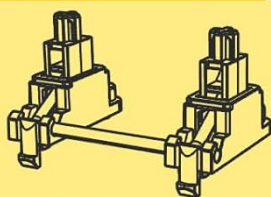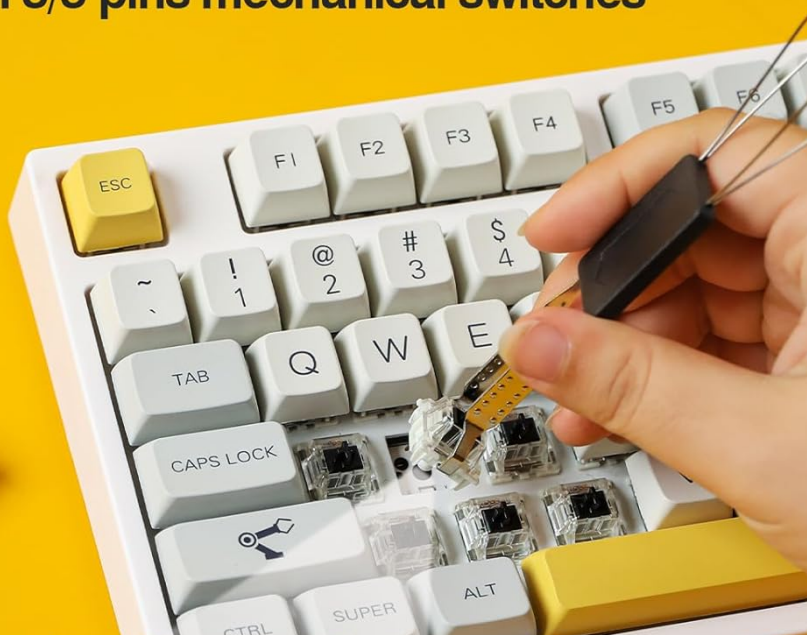


Image: Screenshot of the EPOMAKER TH80 Pro's programmable software interface, showing options for macro editing, RGB effects, key remapping, and knob redefinition.

## 4.5 Hot-Swappable Switches

The TH80 Pro features a hot-swappable PCB, allowing you to change mechanical switches without soldering. It supports most 3-pin or 5-pin mechanical switches. Use the included switch puller to carefully remove switches and insert new ones.

Image: Close-up view of the EPOMAKER TH80 Pro keyboard demonstrating the hot-swappable switch feature, showing a switch being removed with a switch puller and the underlying hot-swap socket.

## 5. MAINTENANCE

### 5.1 Cleaning the Keyboard

To maintain optimal performance and appearance, regularly clean your keyboard:

- Disconnect the keyboard from all power sources.
- Use a soft, lint-free cloth dampened with a small amount of water or a mild cleaning solution to wipe the keycaps and chassis.
- For deeper cleaning, use the included keycap puller to remove keycaps and clean underneath with compressed air or a small brush.
- Ensure the keyboard is completely dry before reconnecting it.

### 5.2 Keycap and Switch Replacement

The PBT keycaps are durable and oil-resistant. If you wish to replace them or the switches:

- Use the keycap puller to gently remove keycaps by hooking it onto the sides of the keycap and pulling upwards.
- Use the switch puller to remove switches by compressing the clips on the top and bottom of the switch and pulling upwards.
- Align new switches carefully with the PCB sockets and press down firmly until they click into place.
- Place new keycaps onto the switch stems and press down until secure.

## 6. TROUBLESHOOTING

If you encounter issues with your EPOMAKER TH80 Pro, refer to the following common solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Keyboard not responding (Wired) | Loose cable connection, faulty USB port, keyboard off. | Ensure USB-C cable is securely connected. Try a different USB port or cable. Check if the power switch is ON. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Keyboard not responding (2.4GHz Wireless) | Receiver not connected, low battery, keyboard off, interference. | Ensure 2.4GHz receiver is plugged in. Charge the keyboard. Check if the power switch is ON. Move closer to the receiver or reduce interference. |
| Keyboard not responding (Bluetooth) | Not paired, low battery, out of range, incorrect channel selected. | Re-pair the keyboard (Fn+1/2/3). Charge the keyboard. Ensure device Bluetooth is on. Select the correct Bluetooth channel. |
| RGB backlighting not working | Backlight turned off, software issue. | Press Fn + Backspace to toggle backlight. Check software settings. |
| Keys double-typing or not registering | Faulty switch, debris under keycap. | Remove keycap and clean. Replace the faulty switch using the switch puller. |

## 7. SPECIFICATIONS

Key technical specifications for the EPOMAKER TH80 Pro keyboard:

| Feature | Detail |
|---|---|
| Model | TH80 Pro |
| Layout | 75% Compact |
| Connectivity | Bluetooth 5.0, 2.4GHz Wireless, USB-C Wired |
| Battery Capacity | 4000mAh |
| Keycaps | PBT, MDA Profile, Dye-sub Technique |
| Switches | Hot-swappable (3/5-pin compatible) |
| Backlighting | RGB |
| Compatible OS | Windows, Mac OS, PS5, PS4, Xbox, Android, iOS |
| Product Dimensions | 12.91"L x 5.59"W x 1.57"H (32.8cm x 14.2cm x 4cm) |
| Item Weight | 2.99 pounds (1.36 kg) |

## 8. WARRANTY AND SUPPORT

EPOMAKER products are covered by a limited warranty against manufacturing defects. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EPOMAKER website. If you require technical assistance or have questions not covered in this manual, please contact EPOMAKER customer support through their official website or the retailer where you purchased the product.