

EPOMAKER TH80-X

EPOMAKER TH80-X Gasket Mechanical Keyboard User Manual

Model: TH80-X

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1. INTRODUCTION

This manual provides detailed instructions for the EPOMAKER TH80-X Gasket Mechanical Keyboard. Please read this manual thoroughly before using the product to ensure proper operation and to maximize your user experience. The TH80-X is a 75% layout mechanical keyboard featuring triple-mode connectivity, hot-swappable switches, a customizable LCD screen, and dynamic RGB lighting.

Video Description: An overview of the EPOMAKER TH80-X keyboard, showcasing its design, RGB lighting, and key features. This video highlights the aesthetic appeal and functionality of the keyboard.

2. WHAT'S IN THE BOX

Upon unboxing your EPOMAKER TH80-X keyboard, please ensure all the following items are present:

- EPOMAKER TH80-X Mechanical Keyboard
- USB Cable (Type-C)
- Keycap Puller
- Switch Puller
- User Manual

Keyboard Structure

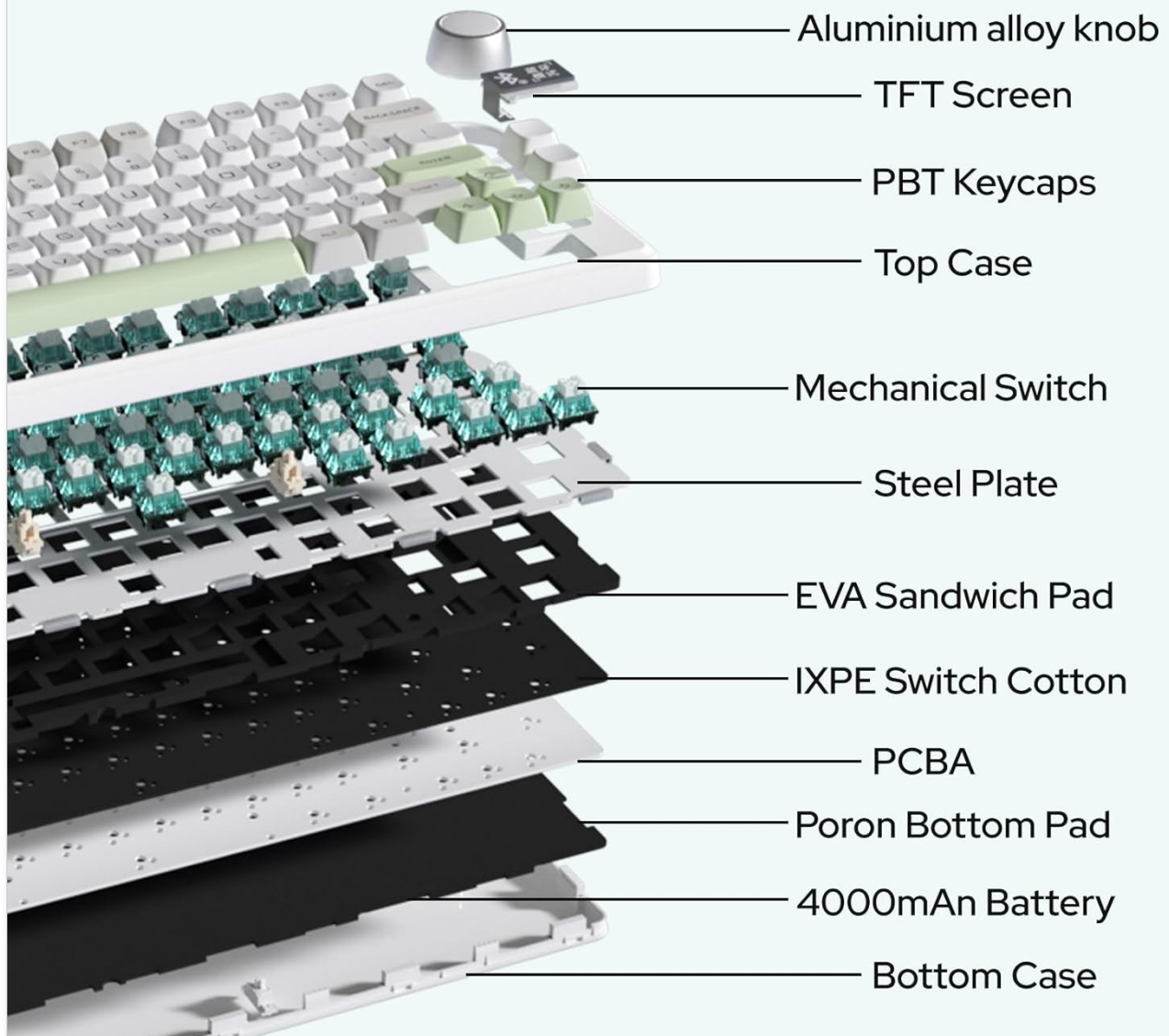


Image Description: A flat lay image showing the EPOMAKER TH80-X keyboard, a coiled USB-C cable, a keycap puller, a switch puller, and a small instruction booklet, all neatly arranged on a white surface.

3. KEY FEATURES

- **75% Layout (79-Key):** Optimized for functionality and compactness, providing essential keys while saving desk space.
- **Triple Mode Connectivity:** Supports 2.4GHz wireless, Bluetooth 5.0, and USB-C wired connections for versatile use across multiple devices.
- **Customizable LCD Screen:** A built-in display screen allows for custom animations, logos, or images, reflecting personal style.
- **Multi-function Rotary Knob:** Conveniently located for easy adjustment of volume, RGB lighting effects, OS mode, and layer switching.
- **Gasket-Mount Design:** Features an EVA sandwich layer and bottom case pad for a soft, smooth typing experience with reduced noise and enhanced stability.
- **Hot-Swappable Switches:** Compatible with 3/5-pin mechanical switches, allowing for easy customization and replacement without soldering.

- **RGB Backlighting:** Per-key RGB lighting with various effects and customizable colors.
- **4000mAh Battery:** High-capacity battery for extended wireless usage.
- **NKRO (N-Key Rollover):** Ensures every keystroke is registered accurately, even during rapid typing or complex key combinations.



Image Description: An image highlighting the multi-function rotary knob and LCD screen on the EPOMAKER TH80-X keyboard, detailing its various functions such as volume control, RGB hotkey, OS mode, and connection mode display.



Image Description: An exploded diagram illustrating the internal structure of the EPOMAKER TH80-X keyboard, showing components like the aluminum alloy knob, TFT screen, PBT keycaps, top case, mechanical switches, steel plate, EVA sandwich pad, IXPE switch cotton, PCBA, Poron bottom pad, 4000mAh battery, and bottom case.

4. SETUP

4.1 Initial Charging

Before first use, it is recommended to fully charge the keyboard using the provided USB-C cable. Connect the cable to the keyboard's USB-C port and a power source (e.g., computer USB port, USB wall adapter).

4.2 Connectivity Modes

The TH80-X supports three connection modes:

- **Wired Mode (USB-C):** Connect the keyboard directly to your device using the USB-C cable.
- **2.4GHz Wireless Mode:** Plug the 2.4GHz USB dongle into your device. The keyboard will automatically connect.

- **Bluetooth Mode (BT 5.0):**

1. Turn on the keyboard's Bluetooth.
2. On your device, search for Bluetooth devices and select "EPOMAKER TH80-X".
3. Pairing is complete when the connection indicator on the LCD screen confirms.



Image Description: An image illustrating the three connectivity modes of the EPOMAKER TH80-X keyboard: 2.4GHz wireless (FN+4), Bluetooth (FN+1/2/3), and wired (Type-C interface). It also shows the initial pairing process for wireless connections.

4.3 Software Installation

For advanced customization of RGB lighting, key remapping, macros, and LCD screen content, download the official EPOMAKER driver software from the [EPOMAKER website](#).



Image Description: A screenshot of the EPOMAKER Driver software interface, showing options for Main, Lighting, Macro, Sketchpad, Share, Share Pictures, Personal, and Support, indicating its comprehensive customization capabilities.

5. OPERATING INSTRUCTIONS

5.1 Basic Key Functions

The TH80-X features a standard 75% layout. Refer to the keycap legends for primary functions. Secondary functions are typically accessed using the **Fn** key in combination with other keys.

5.2 Using the Rotary Knob

The rotary knob offers multiple functions:

- **Volume Control:** Rotate to adjust volume (default function). Press to mute/unmute.
- **RGB Hotkey Function:** Rotate to cycle through RGB effects. Press to change RGB color.
- **OS Mode:** Rotate to switch between Windows and Mac modes.
- **Custom Layer:** Rotate to check custom layers.
- **Connection Mode:** Rotate to check the current connection mode.

To switch between knob functions, press **Fn + Knob**. Rotate the knob to select the desired function displayed on the LCD screen. Press the knob again to confirm or exit the menu.

Video Description: A demonstration of how to use the TH80-X keyboard, focusing on the rotary knob's functions for volume control, switching between preset photos/GIFs on the LCD screen, and selecting different RGB lighting effects and colors.

5.3 RGB Lighting Control

The keyboard features customizable RGB lighting. Use the rotary knob or specific Fn key combinations to adjust:

- **Brightness:** Fn + ↑ / ↓
- **Speed:** Fn + ← / →
- **Lighting Effects:** Fn + Backspace
- **Color:** Fn + \|
- **RGB Mode:** Fn + P



Image Description: A visual guide to the RGB lighting control shortcuts on the EPOMAKER TH80-X keyboard, showing Fn key combinations for adjusting brightness, speed, lighting effects, color, and RGB mode.

5.4 LCD Screen Customization

The LCD screen can display custom images or GIFs. Use the EPOMAKER driver software to upload and manage content for the screen. The software allows you to create and display custom animations, logos, or images.

Video Description: A demonstration of the TH80-X's LCD screen display, showing how custom images and GIFs can be uploaded and displayed on the small screen next to the rotary knob.



Image Description: A screenshot of the Sketchpad feature within the EPOMAKER Driver software, demonstrating how users can create or upload custom images and GIFs to be displayed on the keyboard's LCD screen.

5.5 OS Mode Switching

The keyboard supports both Windows and Mac operating systems. Switch between modes using the rotary knob function or specific Fn key combinations as detailed in the software.










Image Description: An image showing the EPOMAKER TH80-X keyboard compatible with Windows, Mac, and Android operating systems, indicated by respective logos.

5.6 Macro Programming & Key Remapping

Utilize the EPOMAKER driver software to remap keys and program macros. This allows you to customize the keyboard layout and create complex command sequences for enhanced productivity or gaming.

MECHANICAL KEYBOARD WITH INTERACTIVE LCD SCREEN

-  2.4GHZ MODE (FN+4)
-  BT MODE (FN+1/2/3)
-  WIRED MODE (TYPE-C INTERFACE)

First Time: Long pressing FN+1/2/3/4 until screen shows[Pairing] then plug dongle or connect Bluetooth.
Paired Device: Short press FN+1/2/3/4

Image Description: A screenshot of the Remap and Macro section within the EPOMAKER Driver software, showing options for key

6. MAINTENANCE

6.1 Cleaning

To clean your keyboard, first disconnect it from all power sources. Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution. Avoid harsh chemicals or abrasive materials. For cleaning between keycaps, use a can of compressed air or a small brush.

6.2 Switch and Keycap Replacement

The TH80-X features hot-swappable switches, allowing for easy replacement without soldering. Use the provided keycap puller to remove keycaps and the switch puller to carefully extract switches. Insert new switches by aligning the pins with the sockets and pressing gently until they click into place. Ensure the pins are not bent during insertion.

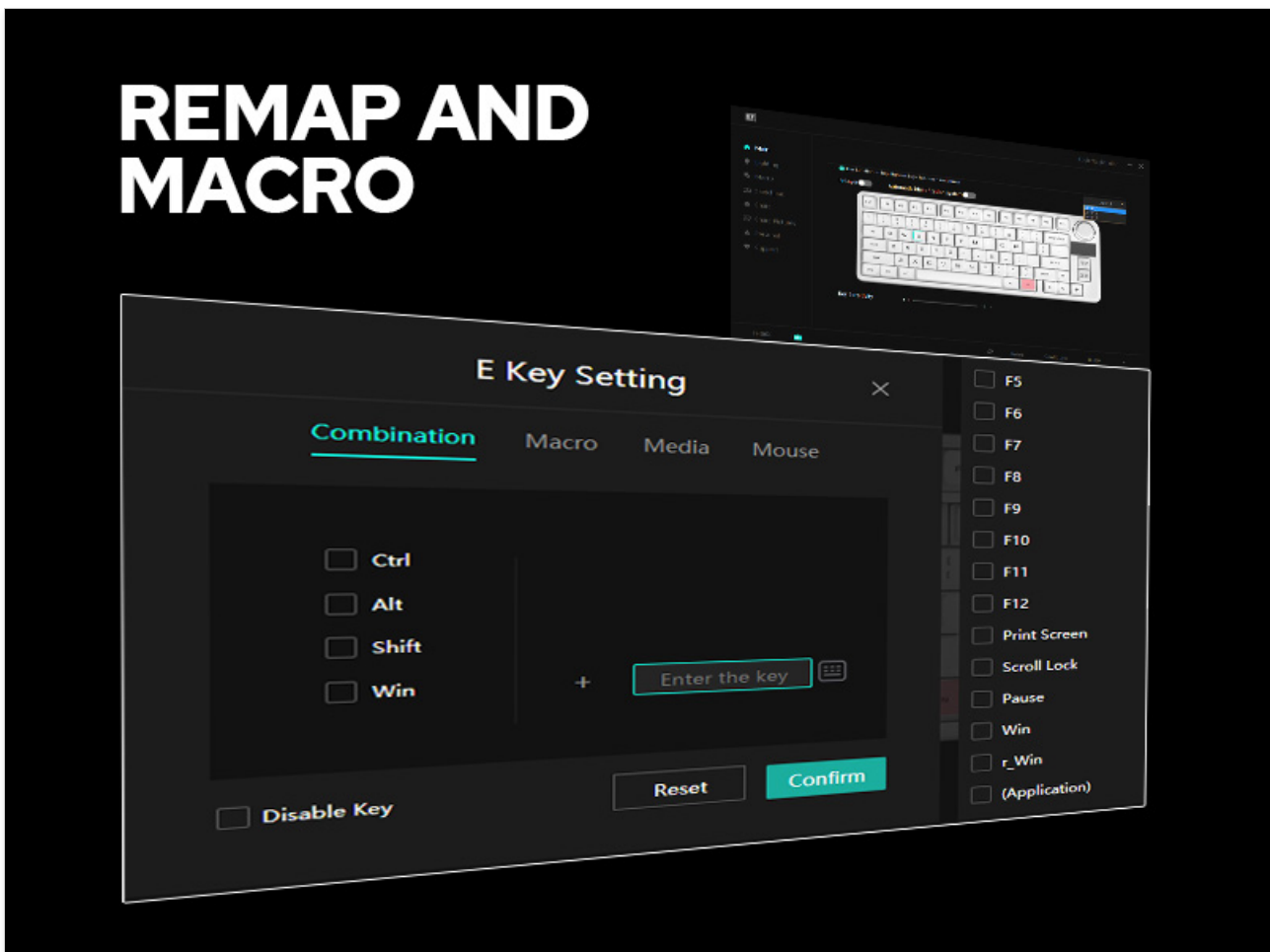


Image Description: A close-up view of the EPOMAKER TH80-X keyboard demonstrating its hot-swappable switch sockets, with a switch being inserted or removed, highlighting compatibility with 3/5-pin mechanical switches.

7. TROUBLESHOOTING

- **Keyboard not responding:** Ensure the keyboard is charged and properly connected (wired, 2.4GHz dongle, or Bluetooth paired). Try restarting the keyboard or your device.
- **Wireless connectivity issues:** Ensure the 2.4GHz dongle is securely plugged in or Bluetooth is enabled and paired. Move the keyboard closer to the receiver to reduce interference.
- **RGB lighting not working/incorrect:** Check the RGB settings via the rotary knob or the EPOMAKER software. Ensure the brightness is not set to zero.

- **Keys not registering:** If specific keys are not working, try replacing the switch for that key, as the TH80-X is hot-swappable. Ensure the switch is fully seated.
- **Software not detecting keyboard:** Ensure the keyboard is connected via USB-C when attempting to use the software. Restart the software and keyboard.

8. SPECIFICATIONS

Feature	Detail
Brand	EPOMAKER
Model Name	TH80-X
Layout	75% (79 Keys)
Connectivity	2.4g Wireless, Bluetooth 5.0, USB-C Wired
Battery Capacity	4000mAh
Special Features	Backlit, Customizable Display Keys (LCD), Ergonomic, Hot-Swappable, Programmable Keys
Switch Type	Linear (Epomaker Flamingo Switch)
Keyboard Backlighting	RGB
Product Dimensions	13.39"L x 5.43"W x 1.5"H
Material	Plastic

9. WARRANTY & SUPPORT

9.1 Warranty Information

The EPOMAKER TH80-X keyboard comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2 Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact EPOMAKER customer support through their official website or the retailer where the product was purchased. Please have your proof of purchase and product model number ready when contacting support.

Official Website: www.epomaker.com