



ProtoArc XL98 Three Mode Mechanical Gaming Keyboard User Manual

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ProtoArc

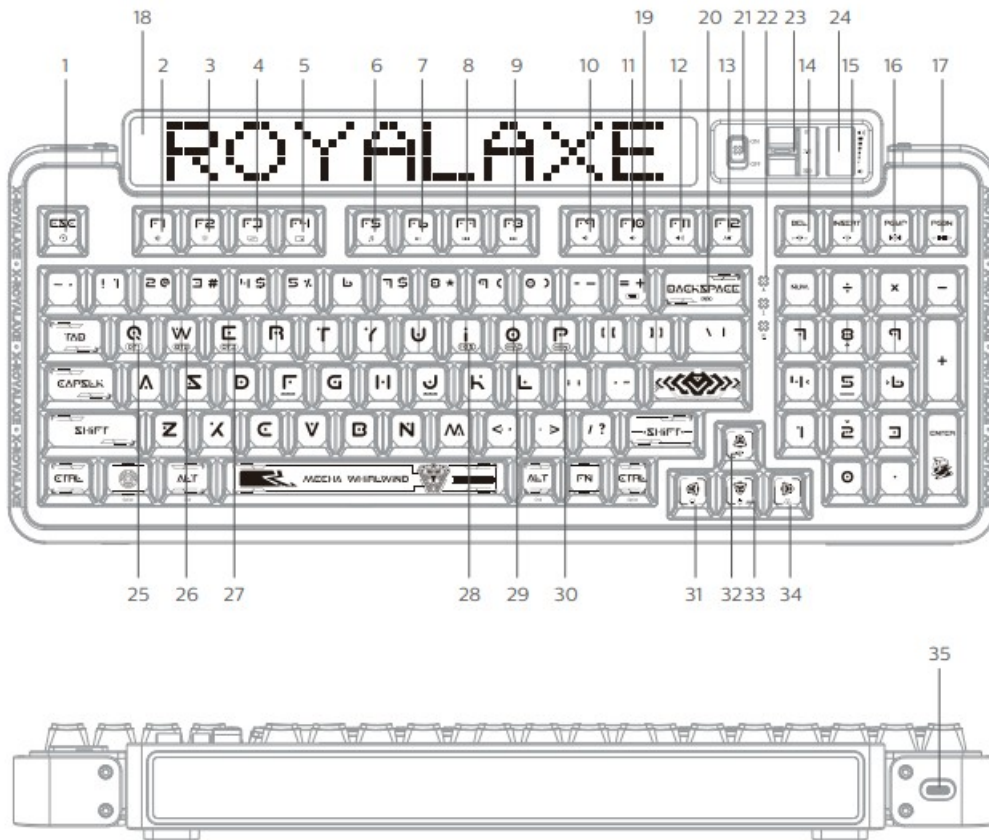
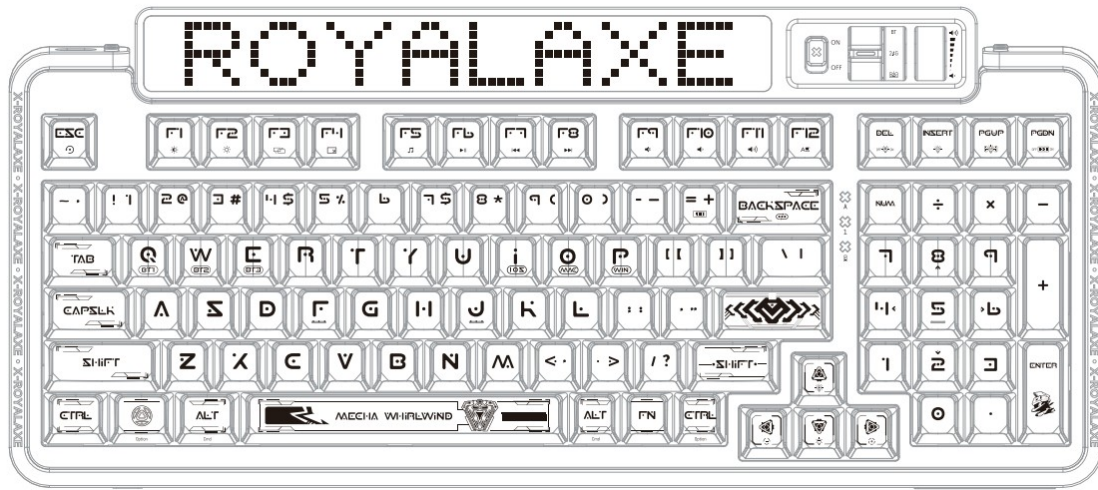


R O Y A L A X E
XL98










**BT 3.0/BT 5.0/2.4G/Wired Three Mode Mechanical Gaming Keyboard
USER MANUAL**























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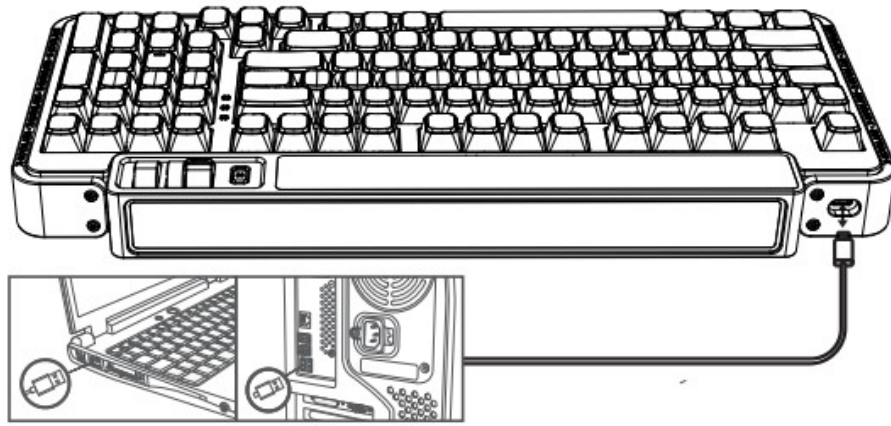
Function overview of the keyboard

1. Fn+  : Reset
2. Fn+  : Screen brightness –
3. Fn+  : Screen brightness +
4. Fn+  : Multi screen display
5. Fn+  : Back to the desktop
6. Fn+  : Media Player
7. Fn+  : Play/Pause
8. Fn+  : Prev song
9. Fn+  : Next song

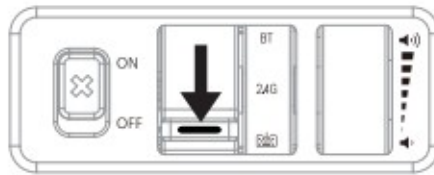
10. Fn+  : Mute
11. Fn+  : Volume –
12. Fn+  : Volume +
13. Fn+  : Input method switching
14. Fn+  : RGB light switch
15. Fn+  : Switch the RGB light mode
16. Fn+  : Switch the LED matrix panel lighting effect
17. Fn+  : LED matrix panel On/Off switch
18. RGB LED matrix panel
19. Fn+  : Battery indicator
20. Fn+  : Monochromatic light switching
21. ON/OFF power switch
22. A :Caps lock indicator
1 :Num lock indicator
 :Low battery indicator
23.  Wired mode
2.4G wireless mode
BT Bluetooth mode
24. Volume wheel
25. Fn+  : Bluetooth mode 1
26. Fn+  : Bluetooth mode 2
27. Fn+  : Bluetooth mode 3
28. Fn+  : Switch to IOS system
29. Fn+  : Switch to MAC system
30. Fn+  : Switch to WIN system
31. Fn+  : Decrease the backlight frequency
32. Fn+  : Increase the backlight brightness
33. Fn+  : Decrease the backlight brightness
34. Fn+  : Increase the backlight frequency
35. Type-C charging/wired interface

Wired connection

- 1.




Insert the TYPE-C interface of the charging cable into the keyboard, and connect the USB interface to your computer.



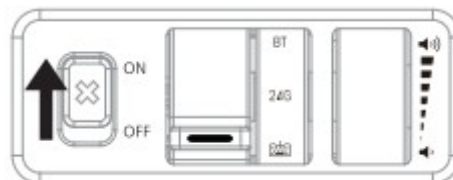
2. Switch to  wired mode



3. LED matrix panel displays "  Connected", indicating a successful connection.

2.4G wireless connection

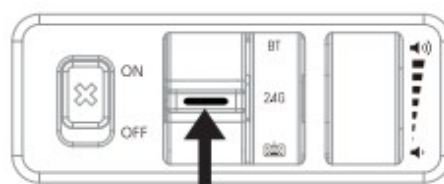
1.



Turn the power switch to ON



2. Take out the dongle and insert the dongle into the USB port of the computer or other devices.



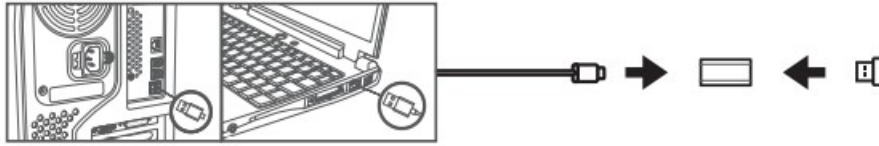
3. Switch to 2.4G mode



4. LED matrix panel displays “2.4G Connected”, indicating a successful connection.

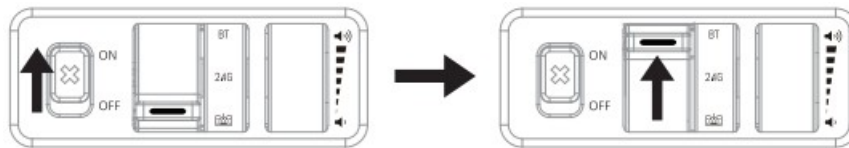
Type – C USB connector using method

During the 2.4GHz usage, there may be latency caused by external signal interference, which can be reduced by using a Type-C to USB adapter to minimize the interference



1. Insert the USB end of the cable into the USB port of the computer
2. Insert the Type-C end of the cable into the Type-C port of the adapter
3. Plug the USB receiver into the USB port of the adapter
4. Place the USB receiver close to the keyboard to minimize interference

Bluetooth connection

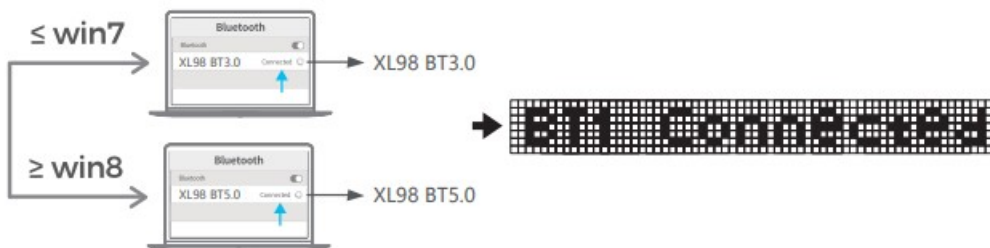


1. Turn the power switch to ON.
2. Switch to BT mode.

Take the connection to BT1 as an example as follows:



2. LED matrix panel displays “BT1 Unlinking”, long press Fn + Q key about 3 to 5 seconds, The indicator light below will flash rapidly, LED matrix panel displays “BT1 Pairing”

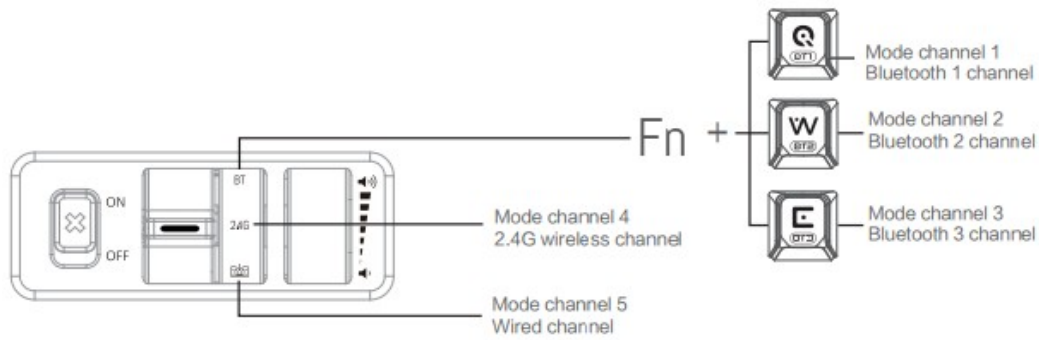


3. Turn on the Bluetooth of your computer or other devices, search and select “XL98 BT3.0” or “XL98 BT5.0” and start Bluetooth pairing. LED matrix panel displays “BT1 Connected”, indicating a successful connection.

Note:

1. Windows 7 and earlier versions of the operating system do not support Bluetooth 5.0;
2. The device number for Bluetooth 3.0 is XL98 BT3.0, while the device number for Bluetooth 5.0 is XL98 BT5.0.

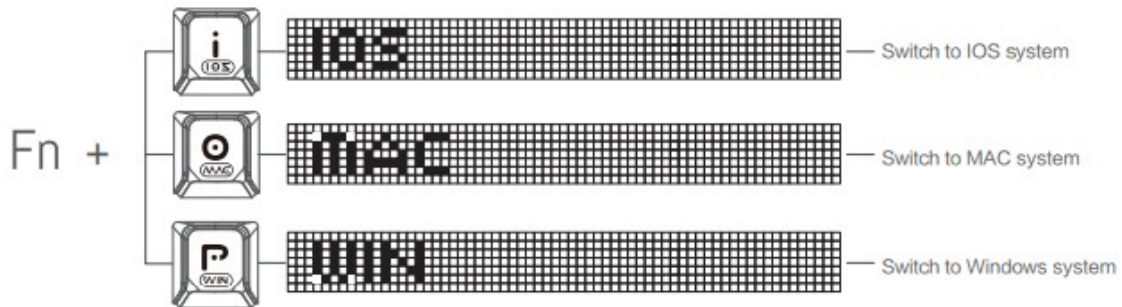
Keyboard Mode Switching



1. Mode channel: The keyboard has 5 channels, BT1, BT2, BT3, 2.4G, wired, and 5 devices can be connected at the same time.
2. Mode rotary knob: Turn the mode rotary knob between Wired/2.4G/BT. Press Fn + Q, W or E to switch between different Bluetooth channels of BT1, BT2 and BT3.

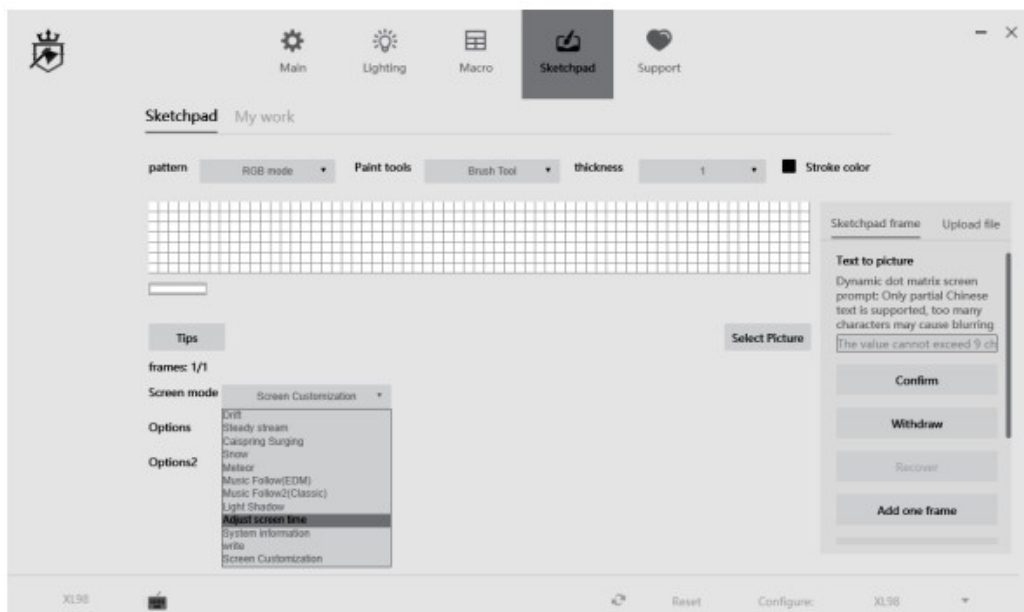
iOS/Mac/Win layout switching

Short press to switch system layout



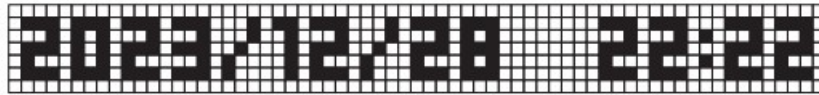
Note: The default setting is Windows layout.

LED Matrix Panel:

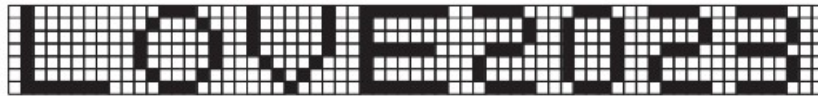


Switch the keyboard mode to wired mode, install the driver, and launch the software. Then, enter the “screen mode” in “Sketchpad” section to choose the LED matrix panel lighting effects or other modes.

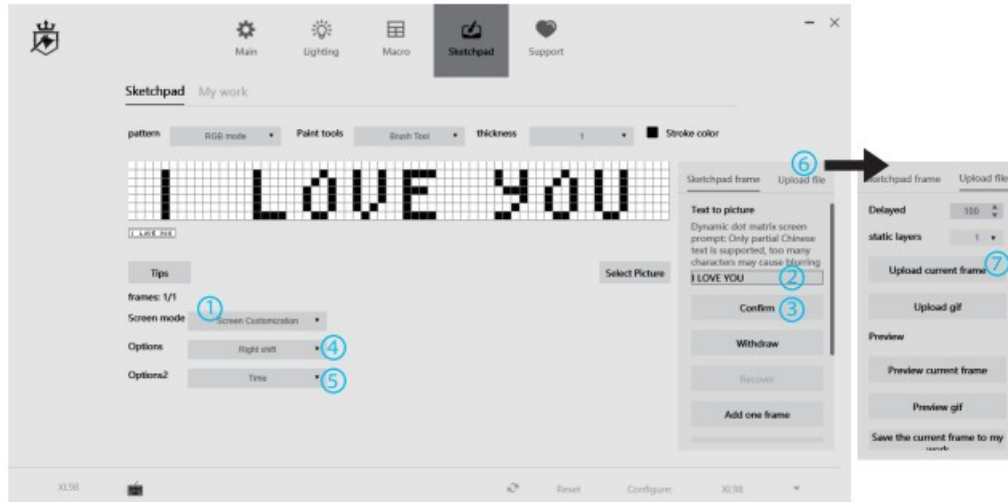
1. Adjust screen time: Display date and time



2. Write: Display the characters(letters or numbers)



Note: Maximum 8 characters



3. Custom animation:

Character animation

1) Select "Screen Customization" in "Screen mode"

2 Input your custom characters, such as "I LOVE YOU". Note: The character count should be within 13 characters

3 Click "Confirm"

4 Select "Right Shift" in Options

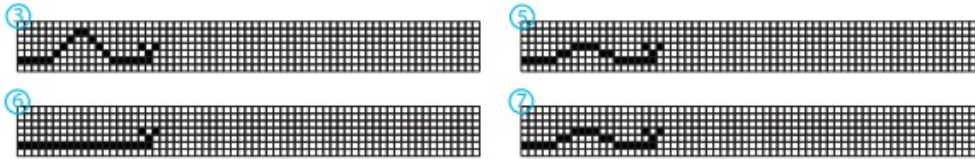
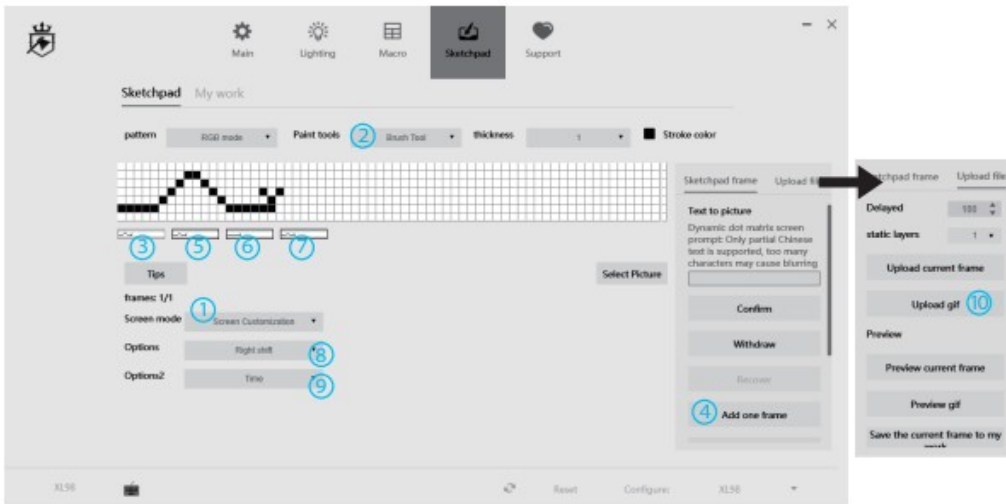
5 Select "Flowing Light" in Options 2

6 "Upload file"

7 "Upload current frame"

Now, the LED matrix panel will display your custom animation.

Switch between Custom Animation and Time Display by pressing FN+Left Ctrl




Self-made Animation

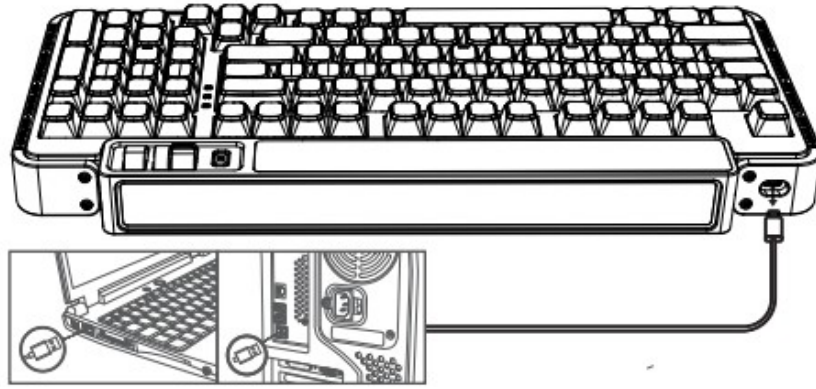
1. Select “Screen Customization” in the Screen Mode
2. Select “Brush Tool” in “Paint tools. Note: The eraser can be used to make changes.
3. Create the first frame of animation using the “Brush Tool.”
4. Click “Add one frame.”
5. Create the second frame of animation.
6. Repeat “Add one frame” to create the third frame of animation.
7. Repeat “Add one frame” to create the fourth frame of animation.
8. Select “Right Shift” in Options.
9. Select “Flowing Light” in Options 2.
10. Click “Upload GIF.”



Now, the LED matrix panel will display your self-made animation.

Charging guide:



1. Low voltage reminder:  The light flashes in red, indicating low voltage.



2. When the charging cable's Type-C interface is plugged into the keyboard and the USB interface is connected to your computer, the charging process begins, and the light  stays red continuously.
3. When the charging is complete, the light  turns green.

Notice:

During the charging process, all modes are not controlled by the "ON/OFF" switch and are directly powered by the charging cable

Custom driver

For custom mode please go to the following URL to download official driver

<https://www.protoarc.com>

Technical specifications

- Connection methods: Wired / 2.4GHz / Bluetooth 3.0 / Bluetooth 5.0
- Wireless range: 2.4GHz(49ft/15 meters), Bluetooth(33ft/10 meters)
- Current and voltage: 5V 500mA(max)
- Keyboard keys: 98
- Keycap material: PBT
- Mechanical switch lifespan: 100 million times
- Lithium battery capacity: 8000mAh
- Keyboard size: 15.6"x 6.8"x 1.4"
- Weight: 3.96lbs

System requirement

1. 1 x USB port
2. Bluetooth 3.0/Bluetooth 5.0
3. Windows® 7, Windows® 8, Windows® 10 or later,
Android 3.2 and above; Mac OS 10.5 or later

Note: Multimedia functions are partially invalid in different OS versions

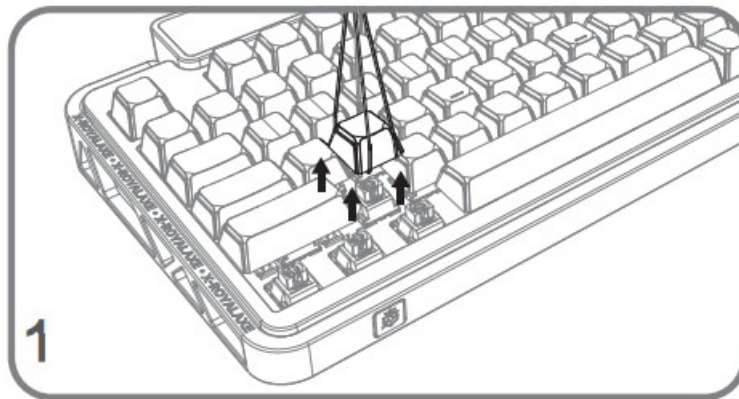
Trouble shooting

1. Ensure that the product's USB wireless receiver is properly inserted into the computer's USB port.
2. Ensure that your computer meets the minimum system requirements.
3. If the product and the wireless receiver are beyond the effective connection distance, please reduce the distance between the product and the receiver.

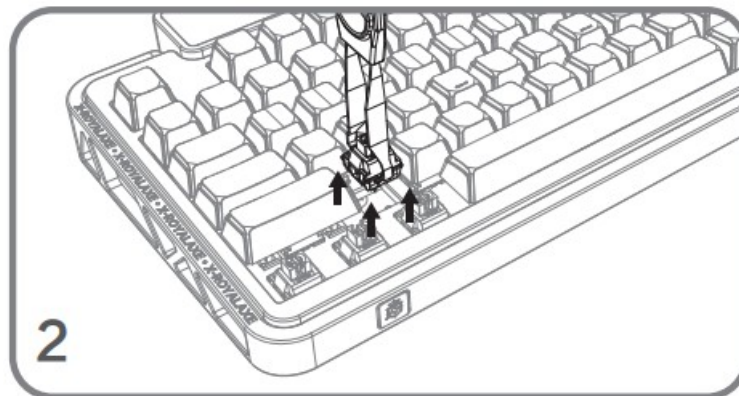
Attention

1. For cleaning, please use dry, soft cotton fabric, etc.
2. Do not fold or bend the product.
3. Do not forcefully disassemble the product.
4. Avoid getting the product wet, exposed to direct sunlight, or near open flames.
5. Do not directly rinse with water.
6. The keyboard is designed to be charged with a rated voltage of 5V based on the USB protocol. Please use the computer's USB interface for charging and avoid using a charger to charge the keyboard.
7. During use, prevent liquids from entering the internal components, as this may cause short circuits and electrical malfunctions.

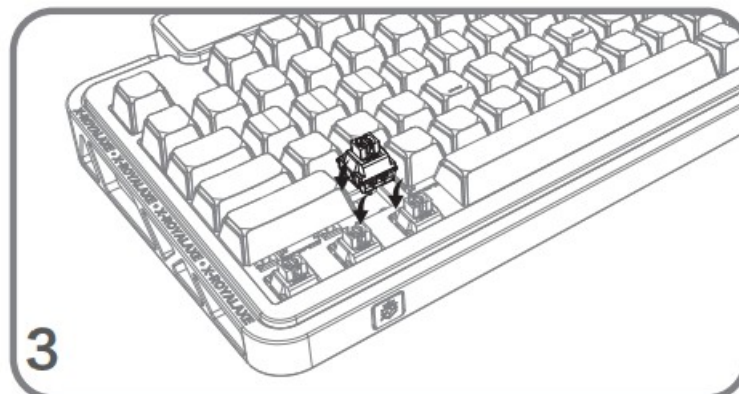
Change the switches



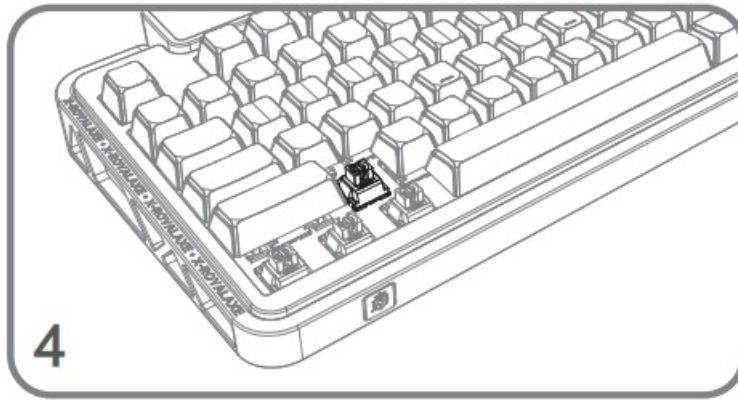
Use the keycap puller(included) to pull out the keycap



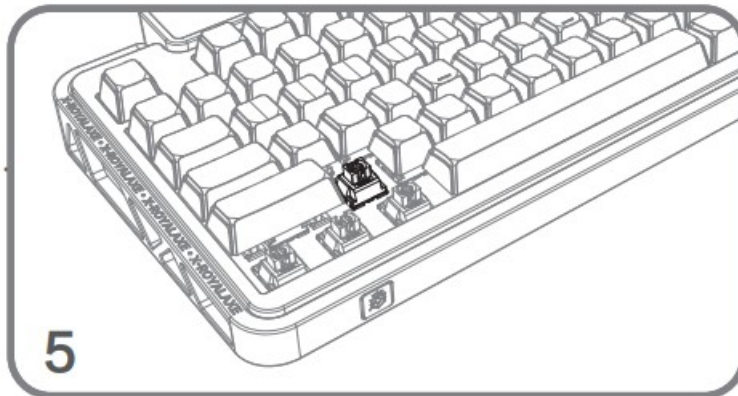
Pull out the switch with the switch puller(included).



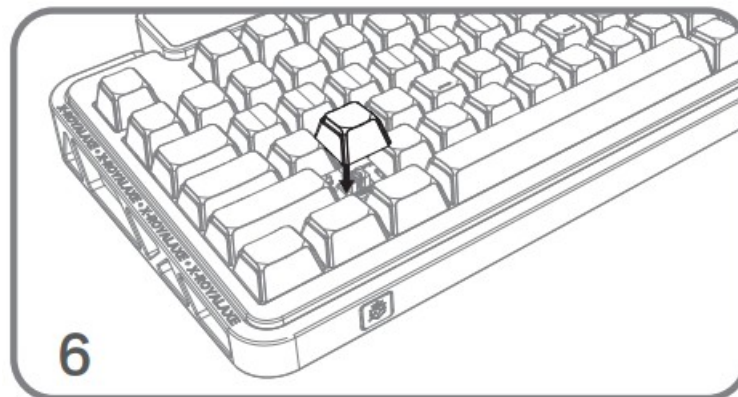
To install the new switch, align it with the corresponding holes on the keyboard.



Place the new switch on the socket.



Gently press the new switch into the socket.



Once the keycap is installed, it can be used normally.

Important safety and compliance information

Disposal of product and packing material
Waste Electrical and Electronic Equipment-WEEE



This symbol on the product or on its packaging indicates that this product must not be disposed of with your household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling or waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resource and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact the local city office, the household waste disposal service or the shop where you purchased the product.

CE Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2014/30/EU), RoHS directive (2011/65/EU) and Radio Equipment Directive (2014/53/EU)(for Radio Equipment)

This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE – CAUSING EQUIPMENT REGULATIONS.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Dear customer,

Thank you for purchasing ROYALAXE x ProtoArc products. To ensure you receive reliable after-sales service, please read the following instructions carefully. The product warranty period is valid for one year from the date of purchase (the date of receipt of the return receipt and the invoice date of the buyer).

The following situations are not covered by the after-sales service:

1. Inability to provide a valid warranty card and invoice (excluding those that can prove the product is within the valid warranty period) or any unauthorized alteration of the warranty.
2. The product model and serial number on the warranty card do not match the physical product or lack the distributor's seal.
3. Alteration, removal, or illegibility of the model number, serial number, or production date code on the product.
4. Defects resulting from excessive use outside the intended purpose, such as non-stop use in a commercial environment.
5. Damage caused by not using the product in accordance with the provided instructions.
6. Damage caused by the use of pirated software or computer viruses during use.
7. Damage caused by accidents, unauthorized repair, or service from unapproved vendors.
8. Damage caused by force majeure.
9. Product malfunction due to accidental disconnection, signal interference, or other influencing factors during use.
10. Normal wear and tear defects or defects in consumable parts by nature.
11. The product not functioning properly because it was not originally designed, manufactured, or approved for use in the country where you use the product, which might occur when you imported the product.

If the product functions you purchased are defective or cannot be used normally, please contact your local retailer. The serial number filled in the form must match the actual product. This certificate is the primary document for after-sales service, so please keep it safe. If you need technical support, please present this warranty card, and we will provide quality and professional services

Commodity Information	Name	
	Place of origin	
	Model No.	
	Serial No.	
User info.	Name	
	Address	
	Tel.	
	Postcode	
Sales info.	Retailer	
	Address	
	Tel.	
	Postcode	
	Sale date	
	Invoice No.	
	Stamp & Signature	
<p>Dear customer. the above information is to be filled in by the seller. Please cooperate with us. Thank you! The following information shall be filled in by the maintenance agency and handed to the OSOMer.</p>		
Maintenance info.	Maintenance company name	
	Address	
	Tel.	
	Postcode	
	Document No.	
	Date	
	Signature	

ProtoArc 
Customer Support:

Email: support@protoarc.com


Co-created by ProtoArc x RoyalAxe

Manufacturer: Dongguan Lingjie Electronics & Technology Co., Ltd

Address: No. 23 Zhenxing North Road, Xiegang Town,
Dongguan, Guangdong, China

Web: <https://www.protoarc.com>

Documents / Resources

	<p>ProtoArc XL98 Three Mode Mechanical Gaming Keyboard [pdf] User Manual XL98 Three Mode Mechanical Gaming Keyboard, XL98, Three Mode Mechanical Gaming Keyboard, Mode Mechanical Gaming Keyboard, Mechanical Gaming Keyboard, Gaming Keyboard, Keyboard</p>
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References

-  [ProtoArc® Better Workspace: Portable & Comfortable & Efficient](#)