

KPREPUBLIC EG Aqua King Water King Linear Switch

Everglide EG Aqua King Linear Switch User Manual

Brand: KPREPUBLIC | Model: EG Aqua King Water King Linear Switch

1. INTRODUCTION

The Everglide EG Aqua King switches are high-performance linear mechanical keyboard switches designed for a smooth and quiet typing experience. Featuring a transparent housing, these switches are ideal for keyboards with RGB lighting, allowing the illumination to shine through vibrantly. This manual provides essential information regarding the setup, operation, maintenance, and specifications of your Aqua King switches.

2. KEY FEATURES

- **Switch Housing Material:** Polycarbonate for clear aesthetics and durability.
- **Stem Material:** Polycarbonate, ensuring smooth linear travel.
- **Lifespan:** Rated for over 50 million actuations, ensuring long-term reliability.
- **Pretravel:** 2.0 (± 0.6 mm), providing a responsive feel.
- **Total Travel:** 4 mm (± 0.3 mm), offering a full keystroke depth.
- **Actuation Force Options:** Available in 55 gf, 62 gf, or 67 gf (± 10 gf) to suit individual preferences.
- **Operating Force:** 15 gf, for light and effortless presses.
- **Bounce Time:** Less than 5 ms (during actuation with 0.4 m/s), for quick signal registration.
- **Spring:** Stainless steel with a gold-plate for consistent performance.
- **Contacts:** Gold alloy, ensuring reliable electrical conductivity.

3. SETUP GUIDE

Installing Everglide EG Aqua King switches into a compatible mechanical keyboard requires careful handling to prevent damage to the switch pins or the keyboard's PCB (Printed Circuit Board).

3.1 Preparation

- Ensure your keyboard is powered off and disconnected from your computer.
- If replacing existing switches, carefully remove the keycaps using a keycap puller, then remove the old switches using a switch puller.
- Inspect the PCB's hot-swap sockets (if applicable) for any debris or bent pins.

3.2 Switch Installation

1. Align the two metal pins on the bottom of the Aqua King switch with the corresponding holes on the keyboard's PCB. Ensure the switch is oriented correctly (usually with the LED slot facing the LED on the PCB, if present).
2. Gently push the switch straight down into the socket until it clicks into place. Do not force the switch if it doesn't go in smoothly; check for bent pins on the switch or misaligned sockets.
3. Repeat for all desired switch locations.
4. Once all switches are installed, reattach your keycaps by aligning them with the switch stems and pressing down firmly.



Figure 1: A single Everglide EG Aqua King switch, highlighting its transparent design.



Figure 2: Multiple Aqua King switches, ready for installation.

4. OPERATING THE SWITCHES

The Everglide EG Aqua King switches are linear switches, meaning they provide a smooth, consistent keystroke from the top to the bottom of the press without any tactile bump or audible click. This characteristic makes them ideal for users who prefer a fluid typing or gaming experience and desire a quieter operation compared to tactile or clicky switches.

4.1 Actuation Force and Feel

These switches are available in three different actuation forces: 55gf, 62gf, and 67gf. The actuation force refers to the amount of pressure required to register a key press. A lower actuation force (e.g., 55gf) results in a lighter, easier press, while a higher actuation force (e.g., 67gf) provides a firmer, more resistant feel. Experimenting with different forces can help you find the most comfortable and efficient typing experience for your needs.

4.2 Sound Profile

As linear switches, Aqua King switches are designed to be quiet. The sound produced is primarily from the keycap bottoming out against the keyboard plate or PCB, and the switch returning to its original position. The transparent polycarbonate housing also contributes to a unique sound profile, often described as smooth and muted.

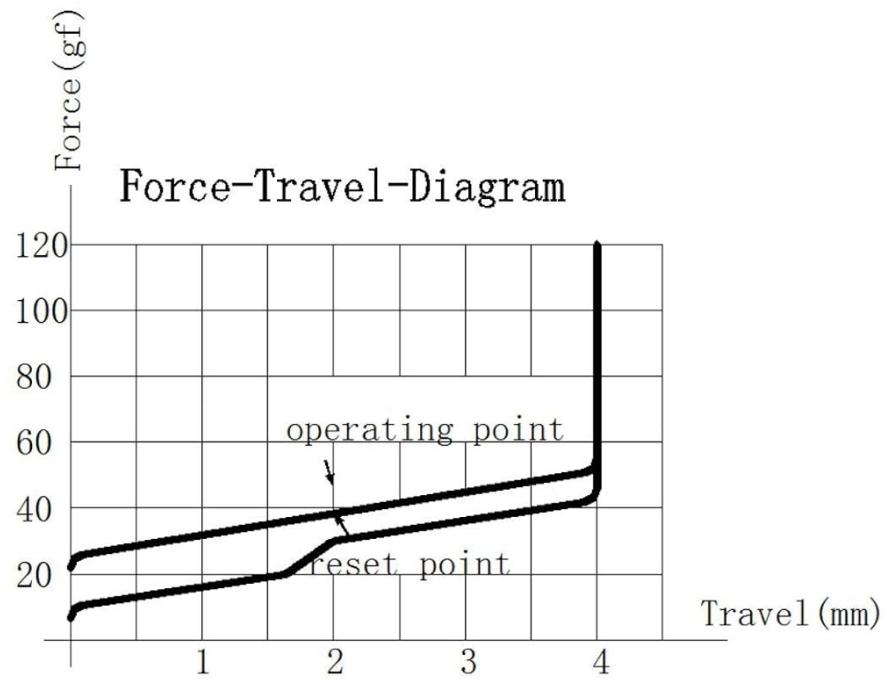


Figure 3: Force-Travel Diagram for 55gf Aqua King Switch. This graph illustrates the force required at different points of the switch's travel, showing the smooth linear progression.

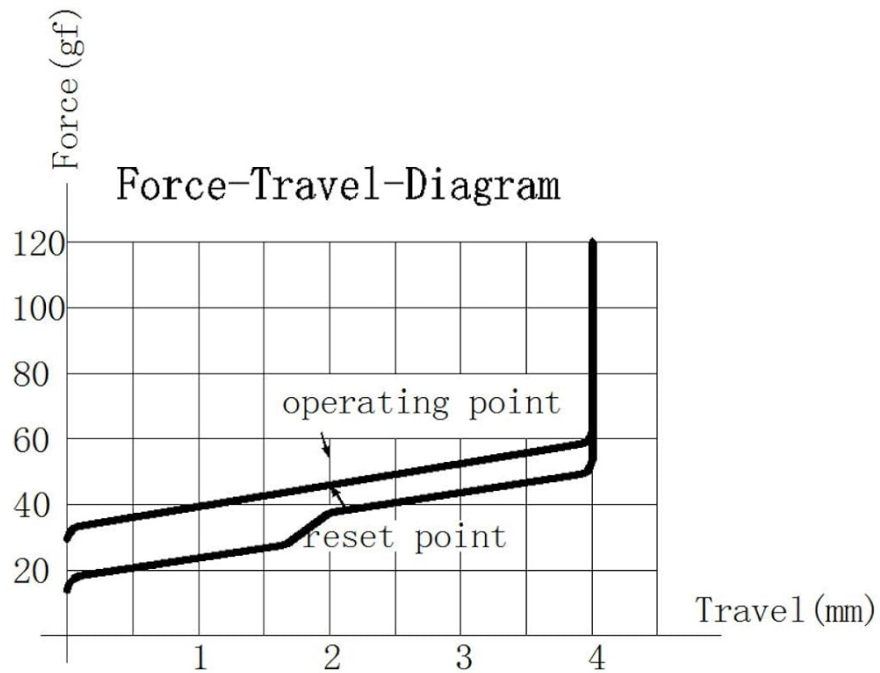


Figure 4: Force-Travel Diagram for 62gf Aqua King Switch. Similar to the 55gf variant, this diagram shows the force curve, with a slightly higher force requirement for actuation.

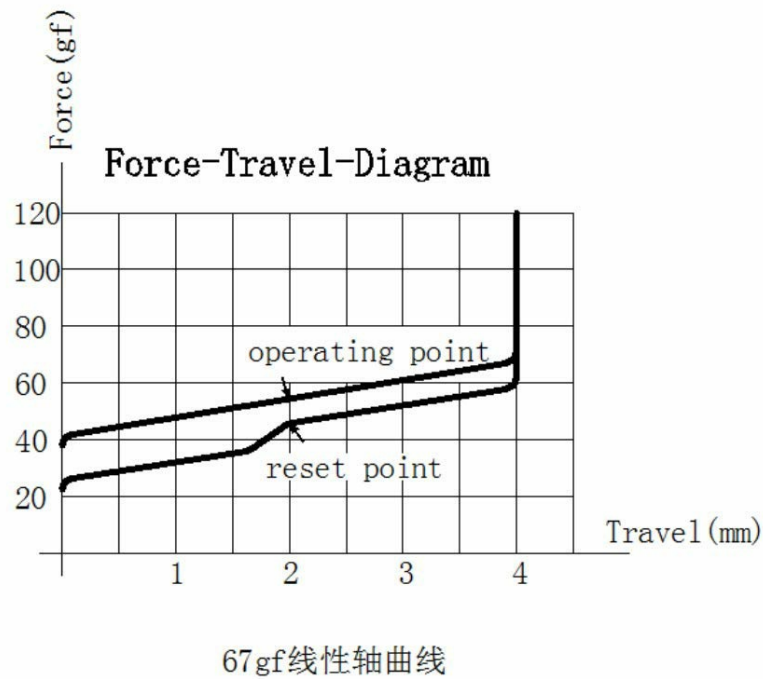


Figure 5: Force-Travel Diagram for 67gf Aqua King Switch. This graph demonstrates the force curve for the heaviest variant, indicating a more substantial feel during key presses.

5. MAINTENANCE

Proper maintenance can extend the lifespan and ensure optimal performance of your Everglide EG Aqua King switches.

5.1 Cleaning

- Regularly remove keycaps and use compressed air to clear dust and debris from around the switches.
- For deeper cleaning, gently wipe the switch housing with a microfiber cloth dampened with a small amount of isopropyl alcohol. Avoid excessive moisture.

5.2 Storage and Environment

- **Storage Temperature:** 41°F – 104°F (5°C – 40°C). Store switches in a cool, dry place away from direct sunlight and extreme temperatures.
- **Operating Temperature:** -40°F – 158°F (-40°C – 70°C). While designed for a wide range, avoid operating in extreme conditions to ensure longevity.
- Keep switches away from liquids and corrosive substances.

6. TROUBLESHOOTING

If you encounter issues with your Everglide EG Aqua King switches, consider the following common troubleshooting steps:

6.1 Key Not Registering

- **Check Switch Seating:** Ensure the switch is fully seated in its hot-swap socket. Gently press down on the keycap or the switch itself to confirm it's flush with the plate.
- **Inspect Pins:** Carefully remove the switch and inspect its metal pins. If any are bent, gently straighten them with fine-nose pliers. Reinsert the switch.

- **Test Another Switch:** If possible, swap the problematic switch with a known working switch from another key on your keyboard. If the issue moves with the switch, the switch itself may be faulty. If the issue remains in the same key location, the keyboard's PCB socket might be the problem.

6.2 Inconsistent Feel or Sound

- **Check for Debris:** Remove the keycap and inspect for any foreign objects or dust inside the switch housing or around the stem. Use compressed air to clear.
- **Lubrication (Advanced):** If you are experienced with switch modification, inconsistent feel can sometimes be resolved by carefully lubricating the switch components. This should only be attempted by users comfortable with disassembling and reassembling switches.

7. SPECIFICATIONS

Specification	Value
Item Model Number	EG Aqua King Water King Linear Switch
Date First Available	March 15, 2021
Manufacturer	KPREPUBLIC
ASIN	B08YXGJ2QD
Operation Mode	Mechanical
Operating Voltage	12 Volts
Contact Type	Normally Open
Connector Type	Pin Header
Terminal	Physical
Circuit Type	1-way
Actuator Type	Plunger
Contact Material	Gold Alloy
International Protection Rating	IP54

8. WARRANTY AND SUPPORT

KPREPUBLIC offers a 30-day return policy for refund or replacement on the Everglide EG Aqua King switches. For any product-related inquiries, technical support, or warranty claims, please contact KPREPUBLIC directly through their official support channels or the retailer from whom the product was purchased.

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.

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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