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- › [Akko](#) /
- › [Akko V3 Silver Pro Keyboard Switch Instruction Manual](#)

Akko V3 Silver Pro

Akko V3 Silver Pro Keyboard Switch Instruction Manual

Model: V3 Silver Pro

PRODUCT OVERVIEW

The Akko V3 Silver Pro switches are high-performance linear mechanical keyboard switches designed for a smooth and responsive typing and gaming experience. This manual provides essential information for installation, operation, maintenance, and troubleshooting.

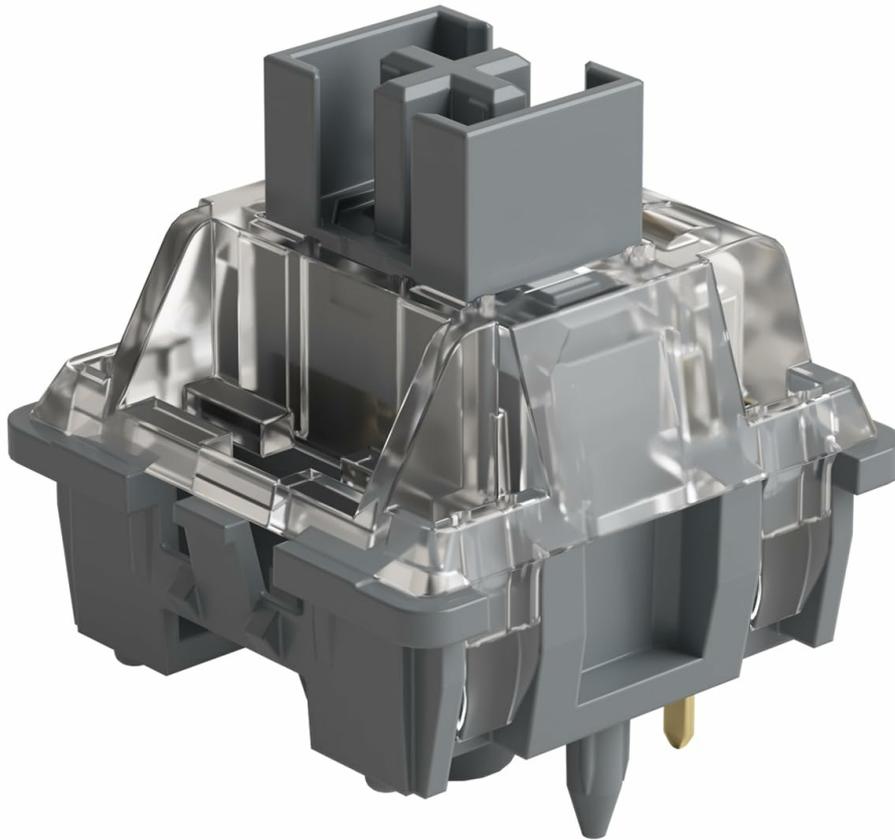


Image: Akko V3 Silver Pro switches, showing the clear top housing and gray stem.

Key Features

- **Enhanced Durability and Stability:** Akko V3 Pro switches feature alloy copper and palladium gold contacts for improved conductivity, stability, and longevity. The dustproof stem and 5-pin design contribute to a more stable typing experience.
- **Optimized for Gaming:** These linear switches have a short pre-travel distance of 1.0mm, making them highly responsive and suitable for gaming. They are pre-lubed on the rails for a smooth out-of-box feel.
- **Broad Compatibility:** Designed with an MX-style structure, Akko switches are compatible with most keycap sets featuring an (X) cross stem.
- **LED Ready:** Equipped with an LED slot, these switches support LED modification and are SMD compatible (LED underneath the switch), allowing for custom keyboard lighting.
- **Long Lifespan:** Engineered for approximately 60 million keystrokes, ensuring long-term performance. Each package contains 45 switches.

INSTALLATION GUIDE

Installing Akko V3 Silver Pro Switches

Follow these steps to properly install your new Akko V3 Silver Pro switches into a compatible mechanical keyboard.

Tools Required:

- Keycap Puller (if replacing existing keycaps)
- Switch Puller (if replacing existing switches)

Procedure:

1. **Remove Keycaps:** If your keyboard has existing keycaps, use a keycap puller to carefully remove them from the keys where you intend to replace switches.
2. **Remove Old Switches:** If replacing existing switches, use a switch puller to gently grasp and pull out the old switches from the keyboard's PCB (Printed Circuit Board).
3. **Align New Switch:** Position the Akko V3 Silver Pro switch over the desired socket on the PCB. Ensure the pins on the bottom of the switch align correctly with the holes on the PCB. The 5-pin design aids in proper alignment.
4. **Insert Switch:** Gently press the new switch straight down into the PCB until it clicks into place. Ensure it is fully seated and stable. Avoid forcing the switch, as this can bend the pins.
5. **Test Functionality:** After installing all desired switches, test each key to ensure proper functionality before reattaching keycaps.
6. **Reattach Keycaps:** Once switches are installed and tested, place the keycaps back onto the new switches.



Image: Step-by-step diagram for replacing keyboard switches, illustrating keycap removal, switch removal, switch placement, and gentle pressing into the PCB.

OPERATING CHARACTERISTICS

Understanding Your Akko V3 Silver Pro Switches

The Akko V3 Silver Pro switches are linear switches, meaning they provide a smooth, consistent keystroke without a tactile bump or audible click. This design is preferred by many gamers and typists for its rapid actuation and fluid feel.

- **Switch Type:** Linear

- **Operating Force:** $40 \pm 5\text{gf}$ (grams-force) - This is the force required to actuate the switch.
- **Pre-Travel:** $1.0 \pm 0.5\text{mm}$ - The distance the switch travels before actuation is registered.
- **Total Travel:** 3.3mm - The maximum distance the switch can be pressed down.



Image: Diagram detailing the specifications of the Akko V3 Silver Pro switch, including type, operating force, pre-travel, and total travel.

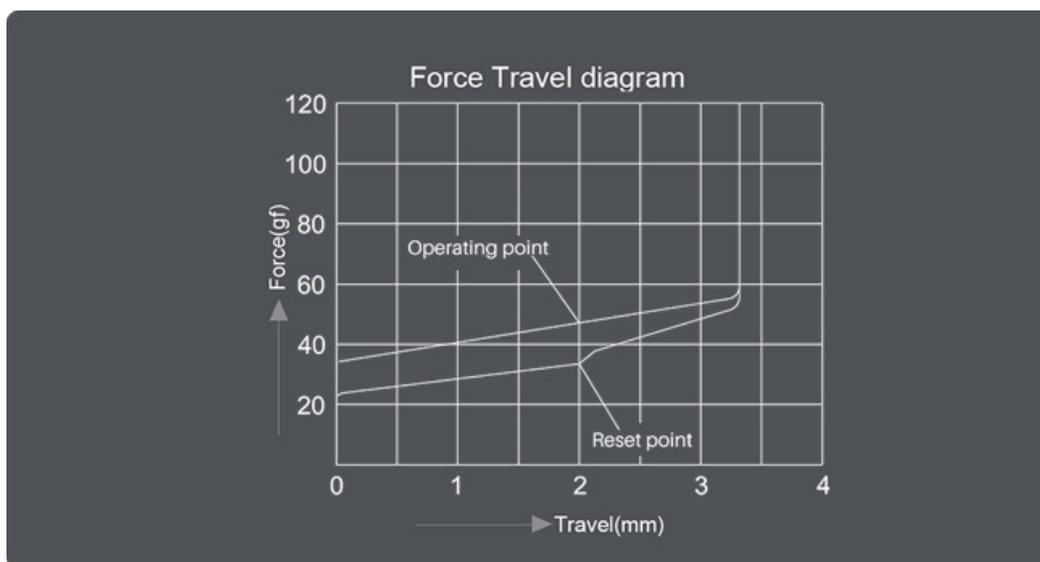


Image: Force Travel diagram illustrating the operating and reset points of the Akko V3 Silver Pro switch.

MAINTENANCE AND CARE

Keeping Your Switches in Optimal Condition

To ensure the longevity and consistent performance of your Akko V3 Silver Pro switches, adhere to the following maintenance guidelines:

- **Regular Cleaning:** Periodically remove keycaps and use compressed air to clear dust and debris from around the switches. A soft brush can also be used for gentle cleaning.
- **Avoid Spills:** Liquid spills can severely damage switches and the keyboard's electronics. If a spill occurs, immediately disconnect the keyboard and allow it to dry completely before reconnecting. For significant spills, professional cleaning may be required.
- **Gentle Handling:** When installing or removing switches, always use appropriate tools (keycap puller, switch

puller) and apply gentle, even pressure to avoid bending pins or damaging the switch housing.

- **Dust Protection:** The dustproof stem design helps protect the internal components, but keeping your keyboard covered when not in use can further minimize dust accumulation.

TROUBLESHOOTING COMMON ISSUES

Addressing Potential Problems

If you encounter issues with your Akko V3 Silver Pro switches, consider the following troubleshooting steps:

- **Switch Not Registering:**
 - Ensure the switch is fully seated in the PCB. Gently press down on the switch to confirm it is clicked into place.
 - Remove the switch and inspect its pins for any bends. Carefully straighten bent pins with fine-nose pliers if necessary, then reinsert the switch.
 - Test the switch in a different socket on the PCB to determine if the issue is with the switch or the PCB socket.
- **Inconsistent Key Press/Feel:**
 - This could be due to debris inside the switch. Follow the cleaning instructions in the Maintenance section.
 - If the switch was recently installed, ensure it was inserted correctly and not at an angle.
- **Bent Pins During Installation:**
 - If a switch pin bends during installation, carefully remove the switch. Use tweezers or small pliers to gently straighten the pin. Reinsert the switch, ensuring proper alignment.

If problems persist after attempting these steps, contact Akko customer support for further assistance.

TECHNICAL SPECIFICATIONS

Feature	Detail
Switch Type	Linear
Operating Force	40 ± 5gf
Pre-Travel	1.0 ± 0.5mm
Total Travel	3.3mm
Durability	Approx. 60 million keystrokes
Pin Configuration	5-Pin
Stem Type	Dustproof MX Style
LED Compatibility	SMD compatible (LED underneath switch)
Included Quantity	45 switches per package

Item Model Number	AKKO02-00006
Item Weight (per package)	8.9 ounces



Image: Diagram illustrating the internal structure of the Akko V3 Silver Pro switch, including top case, dustproof stem, spring, alloy copper leaf, bottom house, 5-pin, and palladium gold contact.

WARRANTY AND CUSTOMER SUPPORT

Akko products are designed for quality and durability. For specific warranty information regarding your Akko V3 Silver Pro switches, please refer to the warranty documentation included with your purchase or visit the official Akko website.

For technical support, troubleshooting assistance, or any product-related inquiries, please contact Akko customer service through their official channels. You can often find support contact information on the Akko brand store page: [Akko Official Store](#).