

## LDEXIN FA2-6/1BEK

# LDEXIN FA2-6/1BEK Electric Hand Drill Speed Control Trigger Switch User Manual

Model: FA2-6/1BEK

Brand: LDEXIN

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of the LDEXIN FA2-6/1BEK Lock-on Trigger Switch. This component is designed as a replacement part for electric hand drills and other compatible power tools, enabling speed control and a lock-on function. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

## 2. SAFETY INFORMATION

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Always adhere to the following safety precautions when handling electrical components and power tools:

- **Disconnect Power:** Before attempting any installation, removal, or maintenance, ensure the power tool is completely disconnected from its power source (unplugged).
- **Qualified Personnel:** Installation and replacement should ideally be performed by qualified personnel or individuals with a thorough understanding of electrical components and power tool repair.
- **Inspect Components:** Before installation, inspect the switch for any visible damage. Do not install a damaged switch.
- **Correct Voltage:** Ensure the switch's voltage rating (AC 250V) matches the requirements of your power tool.
- **Secure Connections:** All electrical connections must be secure and properly insulated to prevent short circuits or electrical hazards.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, such as safety glasses and gloves, during installation.

## 3. PACKAGE CONTENTS

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Verify that all items are present and undamaged upon opening the package:

- 1 x LDEXIN FA2-6/1BEK Lock-on Speed Control Trigger Switch (Plastic Shell)



Figure 3.1: Image showing two LDEXIN FA2-6/1BEK trigger switches. Each switch features a black main body with a prominent red trigger button and a smaller red speed control knob. This image illustrates the typical appearance of the product.

## 4. SPECIFICATIONS

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Technical specifications for the FA2-6/1BEK Trigger Switch:

Parameter	Value
Model	FA2-6/1BEK
Action Type	Lock-on
Rated Voltage	AC 250V
Rated Current	6A

Parameter	Value
Electrical Life	5E4 (50,000 cycles)
Contact Type	Normally Open (NO)
Material	Plastic, Metal
Main Color	Black and Red
Dimensions (L x W x H)	42 x 27 x 55mm (1.7" x 1" x 2.2")
Operation Mode	Push Button
Terminal Type	Screw

## 5. INSTALLATION AND SETUP

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This trigger switch is designed for replacement in compatible electric hand drills. Follow these steps carefully:

- Power Disconnection:** Ensure the electric hand drill is unplugged from the power outlet before beginning any work.
- Access the Old Switch:** Depending on your drill model, you may need to open the drill casing to access the existing trigger switch. Refer to your drill's specific service manual if available.
- Note Wiring Configuration:** Before disconnecting the old switch, carefully note or photograph the wiring connections. This is crucial for correct reassembly.
- Remove Old Switch:** Disconnect all wires from the old switch and carefully remove it from its mounting position.
- Install New Switch:** Position the new LDEXIN FA2-6/1BEK switch in the drill casing. Connect the wires to the corresponding terminals on the new switch, ensuring they match the configuration noted in step 3. The terminals are typically screw-type for secure connections.
- Secure Connections:** Double-check that all wire connections are tight and secure. Ensure no bare wires are exposed that could cause a short circuit.
- Reassemble Drill:** Carefully close and secure the drill casing.
- Test Functionality:** Plug the drill back into a power outlet. Briefly test the switch's operation, including the variable speed and lock-on functions, before full use.

## 6. OPERATION

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The FA2-6/1BEK switch provides variable speed control and a lock-on feature for your power tool:

- Variable Speed Control:** The speed of the power tool is controlled by the amount of pressure applied to the trigger button. Pressing the trigger lightly will result in a lower speed, while pressing it fully will achieve maximum speed.
- Lock-on Function:** To maintain continuous operation without holding the trigger, press the trigger fully and then engage the lock-on button (typically a small button on the side or top of the trigger). Release the trigger, and the tool will continue to run. To disengage the lock-on function, press the trigger fully again and then release it.

## 7. MAINTENANCE

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The FA2-6/1BEK switch requires minimal maintenance. Regular inspection and proper handling will ensure its longevity:

- Keep Clean:** Periodically clean the exterior of the switch and the surrounding area within the drill casing to prevent dust and debris buildup, which can affect performance. Use a dry, soft cloth or compressed air.

- **Avoid Liquids:** Do not expose the switch to water or other liquids.
- **Inspect for Damage:** Regularly inspect the switch for any signs of physical damage, loose connections, or excessive wear. If damage is observed, replace the switch immediately.

## 8. TROUBLESHOOTING

If you encounter issues with the trigger switch, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not turn on.	No power to the tool; faulty wiring connection; defective switch.	Check power outlet and tool's power cord. Verify all wire connections to the switch are secure. If connections are good, the switch may be faulty and require replacement.
Tool runs at full speed only, no variable control.	Variable speed electronics in the switch are damaged or malfunctioning.	The switch's internal electronics may be damaged. The switch needs to be replaced.
Lock-on function does not engage or disengage.	Mechanical issue with the lock-on mechanism; internal switch defect.	Inspect the lock-on button for obstruction. If clear, the switch may be faulty and require replacement.
Switch feels stiff or sticky.	Dust or debris accumulation; internal mechanical issue.	Clean the switch exterior. If the issue persists, the switch may need replacement.

**Important:** Always disconnect power before attempting any inspection or repair within the tool casing. If you are unsure about any troubleshooting step, consult a qualified technician.

## 9. WARRANTY AND SUPPORT

LDEXIN is committed to providing high-quality products and customer satisfaction. If you are not satisfied with your purchase, LDEXIN offers a 30-day return service. For any questions or support inquiries regarding the FA2-6/1BEK trigger switch, please contact your retailer or refer to the LDEXIN official support channels.

