

## KNIPEX 1650145SBA

# Knipex Ratcheting Knife Model 1650145SBA User Manual

Model: 1650145SBA | Brand: KNIPEX

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, setup, operation, and maintenance of your Knipex Ratcheting Knife Model 1650145SBA. Please read this manual thoroughly before using the tool and retain it for future reference.



Figure 1: Knipex Ratcheting Knife Model 1650145SBA, closed position.

## 2. SAFETY INFORMATION

**WARNING: Always exercise extreme caution when handling sharp tools. Failure to follow safety instructions may result in serious injury.**

- Always wear appropriate personal protective equipment, including safety gloves and eye protection, when operating the knife.
- Keep hands and fingers away from the blade during use and when adjusting.
- Ensure the knife is securely closed when not in use.
- Do not use the knife for purposes other than its intended design (cutting and stripping cables).
- Keep out of reach of children.

- Inspect the blade for damage before each use. Replace dull or damaged blades immediately.

### 3. PRODUCT OVERVIEW

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The Knipex Ratcheting Knife 1650145SBA is designed for efficient and precise cutting and stripping of various cable types. Its ratcheting mechanism provides enhanced cutting power with less effort.

#### Key Components:

- **Blade:** Replaceable, sharp cutting edge.
- **Ratcheting Mechanism:** Engages for powerful, controlled cuts.
- **Blade Guard/Lock:** Secures the blade when not in use and during storage.
- **Handle:** Ergonomically designed for comfortable grip.



Figure 2: Knipex Ratcheting Knife with blade partially extended, showing the cutting edge.

### 4. SETUP AND BLADE REPLACEMENT

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The knife comes with a blade pre-installed. If replacement is necessary, follow these steps:

1. Ensure the knife is in a safe, closed position.
2. Locate the blade retention screw (1) and the pivot screw (2) on the side of the knife.
3. Carefully loosen and remove the blade retention screw (1).
4. Gently slide out the old blade assembly (3).
5. Insert the new blade assembly (3) into the slot, ensuring it aligns correctly with the pivot point.
6. Re-insert and tighten the blade retention screw (1) securely. Do not overtighten.



Figure 3: Diagram illustrating blade replacement. (1) Blade retention screw, (2) Pivot screw, (3) Blade assembly.

## 5. OPERATING INSTRUCTIONS

This section details the proper procedure for using the Knipex Ratcheting Knife for cutting and stripping cables.

### 5.1 Preparing for a Cut

- Ensure the cable to be cut is de-energized and secured.
- Unlock the blade guard and extend the blade.

### 5.2 Making a Ratcheting Cut

1. Position the knife around the cable at the desired cutting point.
2. Apply gentle pressure and begin the ratcheting motion by squeezing the handles. The blade will advance through the cable with each squeeze.
3. Continue the ratcheting action until the cable is fully cut.



Figure 4: Demonstrating the ratcheting action for cutting a cable.

### 5.3 Stripping Cable Insulation

For stripping cable insulation, the knife can be used to score the outer jacket.

1. Position the blade to score the insulation without cutting into the conductors.
2. Rotate the knife around the cable to create a circumferential score.
3. Apply a longitudinal cut along the scored line if necessary.
4. Carefully peel back and remove the insulation.



Figure 5: Scoring the outer jacket of a cable with the knife.



Figure 6: Removing the scored cable insulation.

## 6. MAINTENANCE

- **Cleaning:** After each use, wipe the knife clean of any debris or residue using a dry cloth. Avoid using harsh chemicals.
- **Lubrication:** Periodically apply a light machine oil to the pivot points and ratcheting mechanism to ensure smooth operation.
- **Blade Inspection:** Regularly check the blade for sharpness and damage. A dull blade requires more force and increases the risk of injury. Refer to Section 4 for blade replacement.
- **Storage:** Store the knife in a dry, secure location with the blade guard engaged, away from moisture and corrosive materials.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Knife not cutting effectively	Dull or damaged blade	Replace the blade (refer to Section 4).

Problem	Possible Cause	Solution
Ratcheting mechanism is stiff	Lack of lubrication or debris	Clean and lubricate the mechanism (refer to Section 6).
Blade does not retract/extend smoothly	Debris in the blade channel	Clean the blade channel thoroughly.

## 8. SPECIFICATIONS

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- **Model Number:** 1650145SBA
- **Manufacturer:** Knipex
- **Item Weight:** 3.52 ounces
- **Product Dimensions:** 5.75 x 1.18 x 0.1 inches
- **Material:** Alloy Steel, Metal, Plastic
- **Handle Material:** Plastic
- **Usage:** Cutting
- **Color:** Red/Blue

## 9. WARRANTY AND SUPPORT

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Knipex tools are manufactured in Germany and are known for their durability and high performance. For specific warranty details and support inquiries, please refer to the official Knipex website or contact your authorized dealer.

**Online Resources:** [www.knipex.com](http://www.knipex.com)