

## SIMPLEX RJ84A

# SIMPLEX RJ84A Steel Mechanical Ratchet Jack User Manual

Model: RJ84A | Capacity: 5 Ton

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use, maintenance, and troubleshooting of your SIMPLEX RJ84A Steel Mechanical Ratchet Jack. Please read this manual thoroughly before operating the jack to ensure proper function and to prevent injury or damage to property. Keep this manual for future reference.

The SIMPLEX RJ84A is a robust mechanical ratchet jack designed for lifting, lowering, and positioning heavy loads up to 5 tons. Its durable steel construction and reliable ratchet mechanism make it suitable for various industrial and heavy-duty applications.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in serious injury or death.**

- Always read and understand the entire instruction manual before operating the jack.
- Do not exceed the rated capacity of 5 tons. Overloading can cause jack failure and severe injury.
- Ensure the jack is placed on a firm, level, and stable surface capable of supporting the load.
- Center the load on the jack's saddle or toe to prevent slipping.
- Never work under a load supported only by a jack. Always use appropriate jack stands or cribbing to secure the load after lifting.
- Keep hands and feet clear of moving parts and the load during operation.
- Inspect the jack for damage, wear, or missing parts before each use. Do not use a damaged jack.
- Use only the specified operating lever or handle. Do not use extensions or cheater bars that could overstress the jack.
- Ensure the lowering mechanism is fully engaged before attempting to lower a load.
- Do not modify the jack in any way.
- Store the jack in a clean, dry place when not in use.

### 3. COMPONENTS AND IDENTIFICATION



Figure 3.1: SIMPLEX RJ84A Steel Mechanical Ratchet Jack

The image above displays the SIMPLEX RJ84A steel mechanical ratchet jack, presented from a three-quarter front view. The jack is finished in a distinctive yellow color, indicating its robust industrial design. Key components visible include a sturdy, broad base for stability, a vertical lifting column, and a top saddle designed to securely cradle loads. On the side, a prominent lever mechanism is integrated, which is used for both lifting and lowering operations. A warning label is clearly affixed to the side of the jack, which, upon closer inspection, indicates 'SIMPLEX 5 TON CAPACITY', reinforcing the jack's maximum load rating and brand identity.

## Key Components:

- **Top Saddle:** The primary lifting point for loads.
- **Lifting Toe:** A lower lifting point for loads with low clearance.
- **Operating Lever Socket:** Where the operating lever is inserted.
- **Ratchet Mechanism:** Internal mechanism that allows incremental lifting and controlled lowering.
- **Base:** Provides stability for the jack during operation.
- **Reversing Lever:** Used to switch between lifting and lowering modes.

## 4. SETUP

1. **Inspect the Jack:** Before each use, visually inspect the jack for any signs of damage, cracks, bends, or excessive wear. Ensure all moving parts operate smoothly. Do not use if damaged.
2. **Prepare the Work Area:** Ensure the work area is well-lit, clear of obstructions, and on a firm, level, and stable surface.
3. **Position the Jack:** Place the jack directly under the load's lifting point. Ensure the load is centered on either the top saddle or the lifting toe, depending on the application.
4. **Insert Operating Lever:** Insert the appropriate operating lever (not included with all models) firmly into the operating lever socket.

## 5. OPERATING INSTRUCTIONS

### 5.1. Lifting a Load

1. Ensure the reversing lever is set to the 'LIFT' position.
2. Operate the lever with smooth, full strokes. Each downward stroke of the lever will raise the load incrementally.
3. Continue operating the lever until the load reaches the desired height.
4. Once the load is lifted, immediately place appropriate jack stands or cribbing under the load for support. Never rely solely on the jack to support a lifted load.

### 5.2. Lowering a Load

1. Ensure the area beneath the load is clear.
2. If jack stands or cribbing were used, carefully remove them once the load is ready to be lowered onto the jack.
3. Set the reversing lever to the 'LOWER' position.
4. Operate the lever with smooth, controlled strokes. Each downward stroke will incrementally lower the load.
5. Lower the load slowly and carefully until it is fully supported by the ground or its intended resting surface.

## 6. MAINTENANCE

- **Lubrication:** Periodically lubricate all moving parts, including the ratchet mechanism, lifting screw (if applicable), and pivot points, with a good quality general-purpose grease or oil.
- **Cleaning:** Keep the jack clean and free of dirt, debris, and corrosive materials. Wipe down the exterior after each use.
- **Inspection:** Regularly inspect the jack for any signs of wear, damage, or loose fasteners. Pay close attention to the lifting points (saddle and toe) and the integrity of the base.
- **Storage:** Store the jack in a dry, protected area to prevent rust and corrosion. Ensure it is in a stable position where it cannot fall.
- **Professional Service:** If any damage or malfunction is detected that cannot be resolved with basic maintenance, do not attempt to repair it yourself. Contact a qualified service technician or the manufacturer for repair.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Jack will not lift load	Overloaded; Reversing lever in wrong position; Lack of lubrication; Damaged mechanism	Reduce load to within capacity; Set lever to 'LIFT'; Lubricate moving parts; Inspect for damage, seek professional service if damaged.
Jack lowers too quickly or uncontrollably	Reversing lever not fully engaged; Damaged mechanism	Ensure lever is fully engaged in 'LOWER' position; Do not use, seek professional service.
Jack is difficult to operate	Lack of lubrication; Dirt/debris in mechanism; Bent or damaged parts	Lubricate all moving parts; Clean mechanism thoroughly; Inspect for damage, seek professional service.

## 8. SPECIFICATIONS

**Model:** RJ84A

**Brand:** SIMPLEX

**Manufacturer:** Simplex

**Load Capacity:** 5 Ton

**Stroke:** 7 inches (implied from product title)

**Color:** Yellow

**Package Dimensions:** 17 x 10 x 7 inches

**Item Weight:** Approximately 28 Pounds  
**ASIN:** B00M3CP09O  
**UPC:** 812761021411  
**First Available:** August 15, 2014

## 9. WARRANTY AND SUPPORT


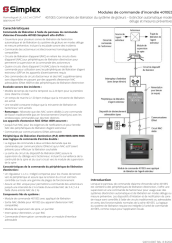

SIMPLEX products are manufactured to high standards and are designed for durability. For specific warranty information regarding your RJ84A Steel Mechanical Ratchet Jack, please refer to the warranty card included with your purchase or visit the official SIMPLEX website. Warranty terms typically cover defects in materials and workmanship under normal use.




For technical support, parts, or service inquiries, please contact SIMPLEX customer service. Have your model number (RJ84A) and purchase date ready when contacting support to facilitate faster assistance.

*Note: This manual is intended as a guide. Always prioritize safety and consult with a qualified professional if you are unsure about any operation or maintenance procedure.*

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### Related Documents - RJ84A

	<p><a href="#">Simplex 4010 Fire Alarm: Installation, Operation, and Programming Guide</a></p> <p>Comprehensive guide for the Simplex 4010 Fire Alarm system, covering installation, operation, and programming instructions. Includes system overview, wiring, configuration, diagnostics, and troubleshooting.</p>
	<p><a href="#">Simplex 4010ES: Systèmes de commande d'extinction automatique pour gicleurs</a></p> <p>Guide technique Simplex 4010ES détaillant les modules de commande pour les systèmes d'extinction automatique par gicleurs, couvrant les modes déluge et préventif, avec spécifications, homologations et schémas de câblage.</p>
	<p><a href="#">Simplex 4010 Fire Alarm: Installation, Operation, and Programming Guide</a></p> <p>Comprehensive guide for installing, operating, and programming the Simplex 4010 Fire Alarm system. Covers system overview, wiring, configuration, diagnostics, and troubleshooting.</p>

 <p>4010ES Fire Alarm System</p> <p>Simplex</p>	<p><a href="#">Simplex 4010ES Fire Alarm System Installation Guide</a></p> <p>This installation guide provides comprehensive instructions for the Simplex 4010ES Fire Alarm System, covering standalone and networked configurations, hardware components, wiring, and system checkout procedures.</p>
 <p>Simplex</p> <p>Catálogo Simplex 2021</p> <p>The cover features a collage of fire alarm components and the Johnson Controls logo.</p>	<p><a href="#">Catálogo Simplex 2021: Soluções Abrangentes em Alarme e Detecção de Incêndio</a></p> <p>Explore o catálogo Simplex 2021 da Johnson Controls, apresentando uma linha completa de unidades de controle de alarme de incêndio, dispositivos de iniciação, aparelhos de notificação e acessórios. Descubra tecnologias inovadoras e confiabilidade para a segurança contra incêndios.</p>
 <p>iFixIT</p> <p>Simplex TrueAlert Disassembly</p> <p>How to disassemble a Simplex TrueAlert alarm.</p> <p>Written By: Alex</p> <p>The image shows a red Simplex TrueAlert alarm unit mounted on a wall.</p>	<p><a href="#">Simplex TrueAlert Disassembly Guide   iFixit</a></p> <p>A step-by-step guide on how to disassemble a Simplex TrueAlert alarm, detailing the removal of cover clips, cover, brightness switch, circuit board clips, circuit board, and strobe tube.</p>