

# Generic 2 Ton Low Profile Transmission Jack Heavy Duty Instruction Manual

Model: Proline435 | Brand: Generic

## 1. INTRODUCTION

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This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your Generic 2 Ton Low Profile Transmission Jack Heavy Duty. Please read this manual thoroughly before assembly, operation, or maintenance to ensure proper use and prevent injury or damage.

## 2. SAFETY INFORMATION

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

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the jack is placed on a hard, level, and stable surface capable of supporting the load.
- Never exceed the rated capacity of 2 tons (4000 lbs).
- Do not use the jack for purposes other than lifting and positioning transmissions or similar components.
- Keep hands and feet clear of moving parts and the load during operation.
- Ensure the vehicle is properly supported on jack stands before working underneath it.
- Always secure the transmission or component to the saddle using chains or appropriate fasteners before lifting or moving.
- Inspect the jack for damage or wear before each use. Do not use if damaged.
- Keep children and unauthorized persons away from the work area.

## 3. COMPONENTS OVERVIEW

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Familiarize yourself with the main components of your transmission jack:



Figure 3.1: Overall view of the 2 Ton Low Profile Transmission Jack, highlighting its capacity and mobile handles.

- **Saddle:** Adjustable platform for supporting the transmission.
- **Chains:** Used to secure the transmission to the saddle.
- **Hydraulic Pump:** Mechanism for lifting the saddle.
- **Release Valve:** Controls the lowering of the saddle.
- **Casters:** Swivel wheels for easy maneuverability.
- **Handles:** For positioning and moving the jack.



Figure 3.2: Detail of the handle for mobility and the 4-inch all-metal swivel caster wheels.



Figure 3.3: Location of the Air Vent Plug and Release Valve on the hydraulic unit.

## 4. SETUP

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1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Assembly:** The jack typically comes pre-assembled. Ensure all bolts and fasteners are tight before first use.
3. **Bleeding the Hydraulic System (if necessary):** If the jack does not lift smoothly or reaches full height, the hydraulic system may need bleeding. Refer to Figure 3.3 for the air vent plug and release valve.
  - Open the release valve by turning it counter-clockwise.
  - Remove the air vent plug.
  - Pump the handle several times to expel any trapped air.
  - Close the release valve and replace the air vent plug. Test the jack's operation.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Preparing for Use

- Ensure the vehicle is securely supported on jack stands and the wheels are chocked.
- Clear the work area of any obstructions.
- Position the transmission jack directly under the component to be lifted.

### 5.2 Lifting a Component

1. Close the release valve by turning it clockwise until it is firm. Do not overtighten.
2. Position the saddle directly under the transmission or component. The saddle dimensions are approximately 16 inches by 12 inches.



Figure 5.1: Saddle dimensions for proper component placement.

3. Pump the handle to raise the saddle. The lift range is from 9 inches (low) to 35 inches (high).



Figure 5.2: The jack's lift range from minimum to maximum height.

4. Once the component is resting on the saddle, use the provided chains to securely fasten it. The saddle also features adjustable corner brackets for better stability.



Figure 5.3: Top view of the saddle with chains for securing the load.

5. The saddle can tilt 10 degrees forward/backward and  $\pm 10$  degrees side-to-side for precise positioning. Adjust as needed.

### 5.3 Lowering a Component

1. Ensure the area below the component is clear.
2. Slowly turn the release valve counter-clockwise to lower the saddle. Control the descent speed by adjusting how much the valve is opened.
3. Once the component is fully lowered and supported by other means (e.g., engine hoist, floor), unfasten the chains and remove the jack.

## 6. MAINTENANCE

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- **Regular Inspection:** Before each use, inspect the jack for any signs of damage, cracks, leaks, or loose parts. Do not use if any issues are found.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and debris.
- **Lubrication:** Periodically lubricate all moving parts, including pivot points and caster wheels, with a light machine oil.
- **Hydraulic Fluid:** Check the hydraulic fluid level periodically. If low, refill with a high-quality hydraulic jack oil. Do not use brake fluid or other non-approved fluids.
- **Storage:** Store the jack in a clean, dry place, preferably in its lowest position to protect the hydraulic cylinder. The folded/storage dimensions are approximately 45" L x 26" W x 12" H.



Figure 6.1: Jack in folded position, suitable for storage.

## 7. TROUBLESHOOTING

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- **Jack does not lift:**
  - Check if the release valve is fully closed.
  - Check hydraulic fluid level and add if necessary.
  - Bleed the hydraulic system to remove air (refer to Section 4).
- **Jack lifts slowly or erratically:**
  - Bleed the hydraulic system.
  - Check for low hydraulic fluid.
- **Jack leaks hydraulic fluid:**
  - Inspect for damaged seals or fittings. Contact customer support for repair or replacement.
- **Jack lowers under load:**
  - Ensure the release valve is fully closed.
  - Do not exceed the rated capacity.
  - If the issue persists, the internal seals may be faulty. Contact customer support.

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	Proline435
Capacity	2 Ton (4000 lbs)
Lift Range	9 inches (low) to 35 inches (high)
Saddle Size Adjustment	12.6" x 7.5" min. / 16.5" x 11.4" max.
Saddle Tilt	10° Forward / Backward, ±10° Side

Caster Size	4" x 1-1/2" All Metal and All Swivel
Material	Metal
Vehicle Service Type	Car
Folded/Storage Dimensions	Approx. 45"L x 26"W x 12"H

## **9. WARRANTY AND SUPPORT**

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For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.