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› Strongway 3-Ton Long Ram Hydraulic Jack (Model NT30306) - Instruction Manual

Strongway NT30306

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Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Strongway 3-Ton Long Ram Hydraulic Jack, Model NT30306. Please read and understand all instructions and safety warnings before using this product.

Important Safety Information

Always prioritize safety when operating hydraulic equipment. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Manual:** Ensure you have read and fully understood all instructions and warnings in this manual before operation.
- **Wear Eye Protection:** Always wear ANSI-approved safety goggles during setup, operation, and maintenance.
- **Do Not Exceed Rated Capacity:** Never attempt to lift loads exceeding the 3-ton (6,000 lb) capacity of this jack.
- **Use on Hard, Level Surface:** Operate the jack only on a hard, level, and stable surface capable of supporting the load.
- **Support Lifted Loads:** Always use appropriate jack stands or other suitable supports immediately after lifting a load. Do not rely solely on the hydraulic jack to support a load.
- **Keep Clear:** Ensure all personnel are clear of the load before lifting or lowering.
- **Inspect Before Use:** Before each use, inspect the jack for any signs of damage, leaks, or wear. Do not use if damaged.
- **Proper Maintenance:** Maintain the jack according to the instructions in this manual to ensure safe and reliable operation.

Product Features

- Constructed of high-grade steel for quality and durability.
- Lead-free paint finish for long-lasting protection against rust.
- Paint is oil, grease, and dirt-resistant for easy cleanup.
- 4.52in. x 4.94in. clevis style base provides versatility for various applications.
- Large diameter hydraulic steel cylinder unit for lower oil pressure requirements, reducing wear and extending service life.





Image: The Strongway 3-Ton Long Ram Hydraulic Jack, Model NT30306, in its unextended state, showcasing its robust construction and clevis base.

SETUP

Unpacking and Initial Inspection

1. Carefully remove the hydraulic jack from its packaging.
2. Inspect the jack for any visible damage that may have occurred during shipping. If any damage is found, do not use the jack and contact customer support.
3. Verify that all components are present, including the jack and the operating handle.

Bleeding the Hydraulic System

Air can become trapped in the hydraulic system during shipping or storage, which can affect the jack's performance. Bleeding the system removes this air.

1. Locate the oil filler plug (usually a rubber plug or screw) on the hydraulic cylinder.
2. Remove the oil filler plug.
3. Open the release valve by turning the handle counter-clockwise.
4. Pump the handle several full strokes to force any trapped air out of the system.
5. Close the release valve by turning the handle clockwise.
6. Replace the oil filler plug.
7. Test the jack for proper operation before putting it into service.





Image: The hydraulic jack with its operating handle inserted, ready for use or bleeding procedures.

OPERATING INSTRUCTIONS

Lifting a Load

1. Ensure the jack is placed on a hard, level surface.
2. Position the jack's clevis base securely under the lifting point of the load. Ensure the load is centered

on the jack's lifting point to prevent slippage.

3. Close the release valve firmly by turning the handle clockwise until it is tight. Do not overtighten.
4. Insert the operating handle into the pump socket.
5. Pump the handle with full, steady strokes to raise the load to the desired height.
6. Once the load is lifted, immediately place appropriate jack stands or other suitable supports under the load. The hydraulic jack is designed for lifting, not for prolonged load support.



Image: The hydraulic jack integrated into an engine hoist, demonstrating its application for lifting heavy components like an engine.



Image: A user operating the hydraulic jack's handle to lift an engine, illustrating the pumping action required for lifting.

Lowering a Load

WARNING: Ensure the area around the load is clear before lowering. Remove jack stands only after the load is fully supported by the jack and ready to be lowered.

1. Carefully remove any jack stands or supports from under the load.
2. Slowly turn the release valve counter-clockwise to gradually lower the load. Do not open the valve too quickly, as this can cause the load to drop rapidly.
3. Once the load is fully lowered, open the release valve completely to relieve pressure on the jack.



Image: The hydraulic jack actively lifting an engine, demonstrating the jack's extension during the lifting process.



Image: A detailed view of the hydraulic jack in use, highlighting the interaction between the operator and the jack's handle during a lifting operation.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hydraulic jack.

Hydraulic Fluid Level Check

1. With the jack fully lowered and the ram retracted, place the jack on a level surface.
2. Remove the oil filler plug.
3. The fluid level should be just below the filler hole. If low, add high-quality hydraulic jack oil (ISO VG 22 or equivalent) until the correct level is reached. Do not overfill.
4. Replace the oil filler plug.

Cleaning and Lubrication

- Keep the jack clean and free of dirt, grease, and debris. Wipe down external surfaces regularly.
- Lightly lubricate pivot points and moving parts with general-purpose grease or oil periodically.

Storage

- Store the jack in a clean, dry location with the ram fully retracted and the release valve open to relieve pressure.
- Protect the jack from extreme temperatures and corrosive environments.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Jack does not lift load or lifts slowly.	Low hydraulic fluid level; Air in hydraulic system; Release valve not fully closed; Overload.	Check and refill hydraulic fluid; Bleed the hydraulic system; Ensure release valve is fully closed; Do not exceed rated capacity.
Jack lowers under load.	Release valve not fully closed; Internal seal leakage; Overload.	Ensure release valve is fully closed; Contact qualified service personnel for seal replacement; Do not exceed rated capacity.
Jack does not lower.	Release valve stuck or obstructed; Ram stuck.	Ensure release valve is fully open; Apply light pressure to the ram to initiate lowering; Contact qualified service personnel if issue persists.

SPECIFICATIONS

- **Model:** NT30306
- **Load Capacity:** 3 Tons (6,000 lbs)
- **Material:** High-grade Alloy Steel, Iron
- **Item Weight:** Approximately 23.4 pounds
- **Package Dimensions:** Approximately 28 x 8 x 7 inches
- **Base Type:** Clevis Base (4.52in. x 4.94in.)
- **Paint Finish:** Lead-free, oil, grease, and dirt-resistant

WARRANTY AND CUSTOMER SUPPORT

Strongway products are manufactured to high standards and are backed by a limited warranty against defects in materials and workmanship. For specific warranty details, please refer to the warranty card included with your product or visit the official Strongway website.

If you encounter any issues or require assistance with your Strongway 3-Ton Long Ram Hydraulic Jack, please contact Strongway customer support. Have your model number (NT30306) and purchase information ready when contacting support.

Manufacturer: Strongway