



5000-Lb. Capacity Electric Trailer Jack

Owner's Manual



! WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item #99503

READ & SAVE THESE INSTRUCTIONS

Thank you very much for choosing an Ultra-Tow™ product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code: _____

Purchase Date: _____

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This trailer jack is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call **1-800-222-5381**.

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Intended Use

The Ultra-Tow 5000-Lb. Capacity Electric Trailer Jack is a 12V motor-driven jack that makes coupling and uncoupling from the hitch on travel trailers and boat trailers an easier operation. New industrial design cover is extremely waterproof. Improved LEDs shine down onto your ball and coupler where light is needed the most.

Packaging Contents

Tools and Components Required

- Three Grade 5, 1in. Long, 3/8in.-16 UNC Bolts and Lock nuts (included)
- Three 3/8in. Flat Washers (included)
- 7/16 in. Wrench (owner supplied, not included)
- Torque Wrench (owner supplied, not included)
- Wire Cutters (owner supplied, not included)
- Wire Strippers (owner supplied, not included)
- Crimpers or Soldering Iron (owner supplied, not included)
- Crimpers or Soldering Iron (owner supplied, not included)

Technical Specifications

Property	Specification
Type	12V DC A-Frame
Lift Capacity (lb.)	5,000
Support Capacity (lb.)	7,500
Clearance: Bracket to Jack Top (in.)	22
Length of Travel (in.)	Full 22-1/2" stroke (18" power plus 4-1/2" manual drop leg extension)
Length Retracted (in.)	9 (Measured from ground to center of mounting point)
Length Extended (in.)	31-1/2 (Measured from ground to center of mounting point)
Jack Tube Size (in.)	2-1/4
Drop Leg Travel (in.)	4-1/2
Crank Type	Includes manual crank handle
Ground Support	Drop Leg
Mount Type	A-frame mounting plate
Construction	Steel
Mount Type	Fits 2 1/4in. mounting holes
Mount Height (in.)	9

Important Safety Information

⚠WARNING

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be

aware of the environment and ensure that the tool is used in a safe and responsible manner.

- Do not allow persons to operate or assemble the jack until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this jack in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the jack was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This jack will be safer and do a better job at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

⚠WARNING

WORK AREA SAFETY

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the jack in confined work areas may put you dangerously close to cutting tools and rotating parts.
- Do not use the jack where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The jack can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the jack to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the jack.

⚠WARNING

PERSONAL SAFETY

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Remove keys or wrenches before connecting the tool to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal

injury.

⚠CAUTION

TRAILER JACK USE AND CARE

- Do not force the trailer jack. Products are safer and do a better job when used in the manner for which they are designed. Plan your work, and use the correct product for the job.
- Check for damaged parts before each use. Carefully check that the trailer jack will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the trailer jack with a damaged part.
- Do not use a trailer jack with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using.
- Disconnect the power/air supply from the trailer jack and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store the trailer jack when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.

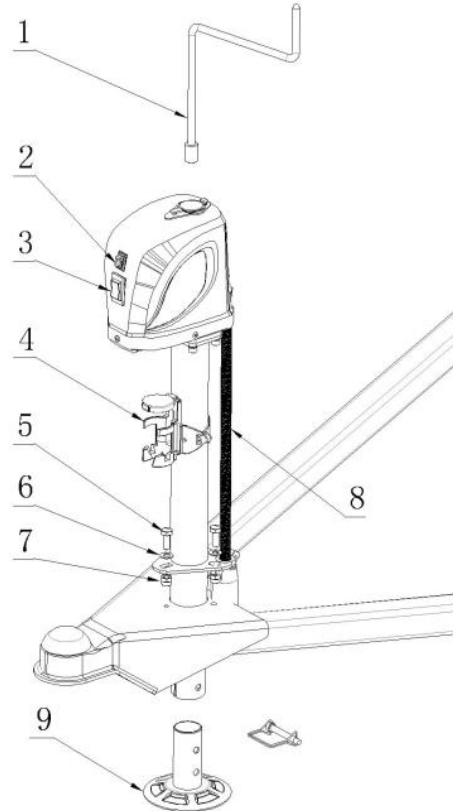
Specific Operation Warnings

⚠WARNING

- To prevent injury or property damage, read and understand owner's manual before operating.
- Do not exceed the rated load capacity.
- The trailer jack is designed for vertical loading. Excessive side forces may cause jack failure.
- Do not use crank while power lift is in use.
- Wear ANSI Z87.1 compliant safety goggles during use.
- For use on flat, level, hard surface capable of supporting load.
- Prevent trailer wheels from moving using wheel chocks while raising or lowering.
- Before towing, fully raise trailer jack and secure properly.
- Keep body parts clear from under jack and tongue when applying and releasing load, or moving trailer.
- Do not use blocks for additional ground clearance.
- To avoid accidental shock and/or damage to the electrical system, disconnect the battery ground cable before installation.

- When using the drop foot or drop leg, make certain the supplied pin is fully inserted through both sides of the inner tube and the drop tube before using the jack.
- If the trailer jack has a drop leg, never attempt to adjust the drop leg when there is any load on the jack.

Main Parts of Trailer Jack



Reference	Subassembly
1	Hand Crank Handle
2	Light Switch
3	Extend / Retract Motor Switch
4	Connector Storage Bracket
5	(3) Graded 5, 1 in. long, 3/8in.-16 UNC Bolts
6	(3) 3/8in. Flat Washers
7	(3) Lock Washers
8	7 Way Plug
9	Drop Leg

Assembly Instructions

⚠WARNING

- Keep hands, feet, and body clear of the jack and trailer to avoid the risk of injury or death!

- Compare the lift capacity of the jack with your trailer to ensure safe operation of the jack.

Before Each Use

⚠WARNING

- Before each use, inspect jack tubes and replace if bent or damaged.
- Compare the lift capacity of the jack with your trailer to ensure safe operation of the jack.
- Retract the jack completely.
- Park the trailer on a level surface, block the tires of the trailer, and support trailer tongue.
- The jack has been designed to attach to the top surface of the A-frame coupler.
- Detach the drop leg of the jack by removing the lock pin and sliding it out.
- Position the drop leg in line with the mounting hole with the foot of the drop leg on the ground.
- Place the jack's outer tube through the A-frame coupler hole and over the drop leg. The dual mounting pattern allows positioning of the jack either facing the two vehicles or for curb-side operation.
- Secure the jack using three (3) 3/8" diameter, 1" long, grade 5 bolts and lock washers. Bolts should be tightened to 15-20 ft. lb.
- Route the black wire lead from the plastic cover along the trailer to the battery. Attach the wire lead to the trailer using cable ties or equivalent.
- Connect the wire lead from the jack directly to the positive (+) terminal of the battery. This unit has a built-in circuit breaker which automatically trips and resets. Reconnect the battery ground cable.

This unit includes a 7-way connector; just simply connect the 7-pin connector to the towing vehicle, no hard wiring required.

Tip: The trailer connector on the vehicle must match the trailer connector on the jack to power it.

Test that the correct terminal is receiving power with a test light. Number 4 on the connector will receive power. Connector number 1 is the neutral ground. Consult a qualified technician on replacing the connector if there is a mismatch between the vehicle and jack connectors.



- Check for proper installation, by pressing the motor switch UP for extending the jack and DOWN for retracting the jack. Also check that the light switch turns on the LED light situated under the top cover of the jack.
- After checking for proper operation, be sure to reattach the drop leg to the inner tube of the jack using the lock pin.

Operating Instructions

WARNING

- Do not exceed the rated load capacity.
- The trailer jack is designed for vertical loading. Excessive side forces may cause jack failure.
- Do not use crank while power lift is in use.
- For use on flat, level, hard surface capable of supporting load.
- Prevent trailer wheels from moving using wheel chocks while raising or lowering.
- Keep body parts clear from under jack and tongue when applying and releasing load, or moving trailer.
- Release the Power Switch when the motor slows, or switches off, to prevent damage to the motor. Wait 15 seconds for the motor to reset before operating the jack again.
- Do not stack blocks under the jack's foot to increase the height. Stacked blocks may become unstable and fall.
- When using the drop foot or drop leg, make certain the supplied pin is fully inserted through both sides of the inner tube and the drop tube before using the jack.
- If the trailer jack has a drop leg, never attempt to adjust the drop leg when there is any load on the jack.

ELECTRICAL OPERATION INSTRUCTIONS

- Park the trailer on a level surface and block the wheels.
Tip: For nighttime hookups, turn the light switch (#28) ON to illuminate your work area.
- Before operating the jack, extend the drop leg (#23) to the appropriate length and secure in place with the 3/8" safety lock pin (#22) provided.
WARNING: Do not stack blocks under the jack's foot to increase the height. Stacked blocks may become unstable and fall.
- Extend the jack by pushing the operating switch (#29) UP.
Note: Under heavy use, the internal circuit breaker may open, causing the motor to switch off. In this case, release the operating switch, and wait 15 seconds for the breaker to reset before resuming operation.
- Retract the jack by pushing the operating switch (#29) DOWN.
Note: If you attempt to extend or retract the jack and it does not respond, it may be at the end of the stroke. If the jack fails to respond, try operating it in the opposite direction. If it will not operate in either direction refer to the troubleshooting guide.
- After hitching the trailer to a tow vehicle, slide the drop leg (#23) fully into the jack tube, secure it with the safety lock pin (#22) and retract the jack tube. You may have to raise the jack tube slightly to release pressure on the safety lock pin.
- Always check ground clearance before driving off.

MANUAL OPERATION INSTRUCTIONS

- If for any reason electric power is lost, disconnect the jack from the power source.

- Remove the rubber access cover on the top of the jack.
- Insert the manual crank handle into the access hole on the top of the jack, engaging the drive screw.
- Rotate the manual crank handle counter-clockwise to extend the jack, and clockwise to retract it.

After Each Use

⚠WARNING

- After use, wipe external surfaces of the jack with a clean cloth.
- Keep all moving parts lightly lubricated to prevent corrosion.

Maintenance

⚠WARNING

- Before each use, inspect jack tubes and replace if bent or damaged.
- If wiring is connected to battery terminal, inspect at least twice each year for corrosion. Clean with a solution of baking soda and water, and then apply a thin coat of grease.
- The motor's ground screw and mounting bolts must be cleaned if a grounding continuity problem occurs.
- Once each year, extend the jack as far as possible and clean the inner tube.

Maintain the product by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures. It is recommended that the general condition of any tool be examined before it is used. Keep your tool in good repair. Keep handles dry, clean, and free from oil and grease. Also refer to the engine manufacturer's instruction manual for additional information about engine maintenance. The following chart is based on a normal operation schedule.

Maintenance Interval	Maintenance Point
Daily before operating	The powered A-frame jack motor is sealed and maintenance-free. Before each use, inspect jack tubes and replace if bent or damaged. Ensure all connections are tight and free of corrosion and that the jack is properly ground with the coupler (metal to metal contact). If necessary, wash with mild soap and water and rinse thoroughly. The motor ground screw and mounting bolts must be cleaned too if a ground continuity problem occurs.
After the first 20 operating hours	Fully extend the jack and clean the inner jack tube.

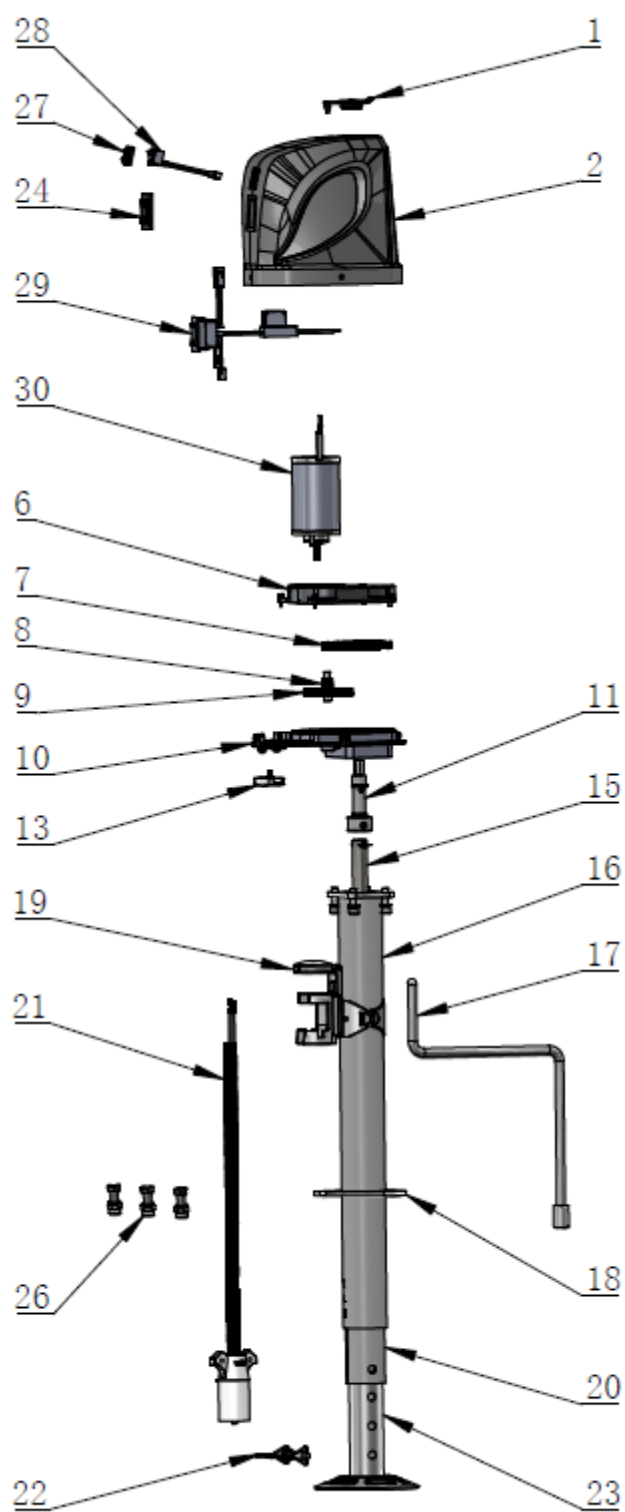
After the first 50 operating hours or every week	Fully extend the jack and clean the inner jack tube.
Every year	Fully extend the jack and clean the inner jack tube once per year. After cleaning, coat the tube with a light grease or silicone spray lubricant.

Troubleshooting

Failure	Possible Cause	Corrective Action
Motor will not operate Or light is OK, but jack will not operate.	No or Low Voltage	Check battery & electrical connections. Must have minimum of 10 VDC. If the battery is low, plug the trailer cable into the tow vehicle, and start the tow vehicle to provide power to the jack.
	The trailer connector on the jack cannot get power from the trailer connector on the vehicle	The trailer connector on the vehicle must match the trailer connector on the jack to power it. Test that the correct terminal is receiving power with a test light. Number 4 on the connector will receive power. Connector number 1 is the neutral ground. Consult a qualified technician on replacing the connector if there is a mismatch between the vehicle and jack connectors.
	Open Internal Circuit Breaker	Wait 15 seconds for breaker to close or replace with thermal overload protector
	Loose Wires on ON/OFF Switch	Secure wire connections
	Loose Wires on the Motor	Secure wire connections
	Motor Faulty	Replace motor or Replace with a brand new jack
	ON/OFF Switch Faulty	Replace switch
Jack can operate but light doesn't work	Loose Wires on Light Switch	Check if the light and/or switch wiring connection is well secured
	Faulty light and/or switch	Replace light and/or switch
Motor Clutch Engages	If jack leg is at fully retracted or extended position	None, but let go of switch when you hear the clutch
	Worn gear	Replace gear
	Dirty Inner Tube	Clean inner tube and coat with light coat of silicone spray
	Bent Inner Tube	Replace inner tube
	Clutch Faulty	Replace motor
	Jack at angle	Secure mounting bolts and ensure a support plate is

		used
	Excessive tongue weights	Determine if jack is adequate for tongue weight

Parts Diagram



Parts List

Part Number	Part Description	Quantity
1	Override Protection Cover	1
2	Plastic Cover	1
6-10	Gear Assembly	1
11	Drive Shaft	1
13	LED Light	1
15	ACME Screw	1
16	Outer Tube	1
17	Crank	1
18	Mounting Plate	1
19	Cord Caddy	1
20	Inner Tube	1
21	7-Way Connector	1
22	Lock Pin	1
23	Drop Leg	1
24	Up/Down Switch Cover	1
26	Hardware Kit	3
27	LED Switch Cover	1
28	LED Light Switch	1
29	Integrated Circuit Board with Up/Down Rocker Switch and Positive Wire in Red and Negative Wire in Black, and 30A In Line Fuse	1
30	Motor	1

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at **1-800-222-5381**.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

Limited Warranty

Northern Tool and Equipment Company, Inc. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Ultra-Tow product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of **one year** from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, Your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

Limitations on the Warranty

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

Obligations of Purchaser

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at 1-800-222-5381, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

Remedy Limits

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

Assumption of Risk

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

Governing Law

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of Minnesota, without regard to rules pertaining to conflicts of law. The state courts located in Dakota County, Minnesota shall have exclusive jurisdiction for any disputes relating to this warranty.



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Northern Tool & Equipment Company, Inc.
Burnsville, Minnesota 55306
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