

USER GUIDE

WARN Works® PullzAll

Part Number: 685006



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installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS PRODUCT INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

▲WARNING signals a hazard that *could* cause serious injury or death, if you do not follow recommendations.

▲CAUTION signals a hazard that *may* cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention

Product Description: WARN Works® PullzAll

The WARN Works® PullzAll is a powerful pulling tool. Powered by a 24 volt, rechargeable battery this compact tool has a pulling capacity of 454 kilos / 1000 pounds.

The unit has a variable speed trigger switch for power in and power out operation, 4.6 m (15 ft) of 0.56 cm (7/32 inch) wire rope and a clasp hook.

Introduction

Thank you for choosing WARN Works® for your material handling needs. All WARN Works® products have been designed and manufactured for many years of problem-free operation. For future reference please record the following information:

Model/Part Number: _____ **Date of Purchase:** _____


Before you begin


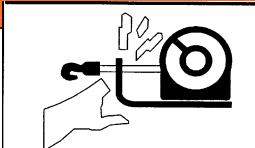



Read the instructions completely to familiarize yourself with proper operation. Review all the notices, cautions and warnings to make sure that you can install and operate the product safely.

Safety Precautions

The following are general safety precautions that every PullzAll operator should know. Taking precedence over any specific rule listed here, however, is the most important rule of all—**USE COMMON SENSE**.

A few minutes spent reading these rules can make an operator aware of dangerous practices to avoid and precautions to take for his/her own safety and the safety of others. Frequent examinations and periodic inspections of the equipment as well as conscientious observance of safety rules may save lives as well as time and money.

WARNING		
		
MOVING PARTS ENTANGLEMENT HAZARD		
<p>Failure to observe these instructions could lead to severe injury or death.</p> <p>To avoid injury to hands or fingers.</p> <ul style="list-style-type: none"> • Always keep hands clear of wire rope, hook loop, hook and fairlead opening during installation, operation and when spooling in or out. • Always use extreme caution when handling hook and wire rope during spooling operations. • Always use supplied hook strap whenever spooling wire rope in or out, during installation or operation to avoid injury to hands or fingers. 		

 WARNING			
			
FALLING OR CRUSHING HAZARD			
<p>Failure to observe these instructions could lead to severe injury or death.</p> <ul style="list-style-type: none"> • Never use to lift or move persons. • Never lift loads over people. 			

Safety Precautions - continued



WARNING



CHEMICAL AND FIRE HAZARD

Failure to observe these instructions could lead to severe injury or death.

- **Never** operate product in an environment containing explosive or combustible material.
- **Always** wear eye protection.
- **Always** insulate and protect all exposed wiring and electrical terminals.
- **Never** allow battery terminals to short circuit. Keep batteries in a safe location away from other metal objects like nails, screws, keys, etc.
- **Never** put batteries into fire or expose to high heat; this may cause batteries to explode.



CAUTION

MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to minor to moderate injury.

General Safety:

- **Always** Know Your Product: Take time to fully read and understand the Operator's guide in order to understand your product and its operation.
- **Never** operate this product when under the influence of drugs, alcohol or medication.
- **Never** exceed product rated capacity.

Installation Safety:

- **Always** choose a support structure and load attaching devices that is sufficiently strong to withstand the maximum pulling capacity of your product.
- **Always** use factory approved batteries, components, accessories, and replacement parts.
- **Always** spool the wire rope onto the drum with the rope coming off the top in line with the fairlead opening.

Operation Safety:

- **Always** inspect rope, hooks, and slings before operating product. Damaged components and rigging must be replaced immediately. Protect all parts from damage.
- **Never** use a product that is malfunctioning, has unusual performance or is damaged.
- **Never** hook wire rope back onto itself. This damages the wire rope. Always use a choker chain, wire choker rope or a tree trunk protector.
- **Always**, before use, remove any element or obstacle that may interfere with safe product operation.
- **Always** take time to use appropriate rigging techniques and that the strap or chain will not slip.
- **Never** touch wire rope or hook while in tension or under load.
- **Always** be aware of stability of load during operation.
- **Never** swing or twist loads.
- **Never** leave suspended load unattended.
- **Never** spool out past length of red painted rope, or the rope could come loose or spool in the opposite direction.
- **Never** touch wire rope or hook while someone else is at the control switch or during operation.
- **Always** stand clear of wire rope and load and keep others away while operating.
- **Always** stand to the side of the product during operation.
- **Always** ensure hook travels in the same direction as directional switch indicates.
- **Always** remove the battery during rigging, when not in use, or during maintenance & cleaning.
- **Never** use the product to tow other vehicles. Shock loads can momentarily exceed capacity of wire rope & product.
- **Never** use the product to secure a load during transport.

Safety Precautions - continued

⚠ CAUTION



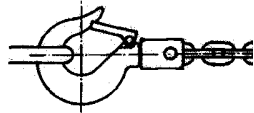
CUT AND BURN HAZARD

Failure to observe these instructions could lead to minor to moderate injury.

To avoid injury to hands and fingers:

- **Always** wear heavy leather gloves when handling a wire rope.
- **Never** let wire rope slip through your hands.
- **Always** be aware of possible hot surface during or after product use.

⚠ CAUTION



MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to minor to moderate injury.

- **Always** use a hook with a latch.
- **Always** insure hook latch is closed and not supporting load.
- **Never** apply load to hook tip or latch. Apply load only to the center of hook.
- **Never** use a hook whose throat opening has increased, or whose tip is bent or twisted.

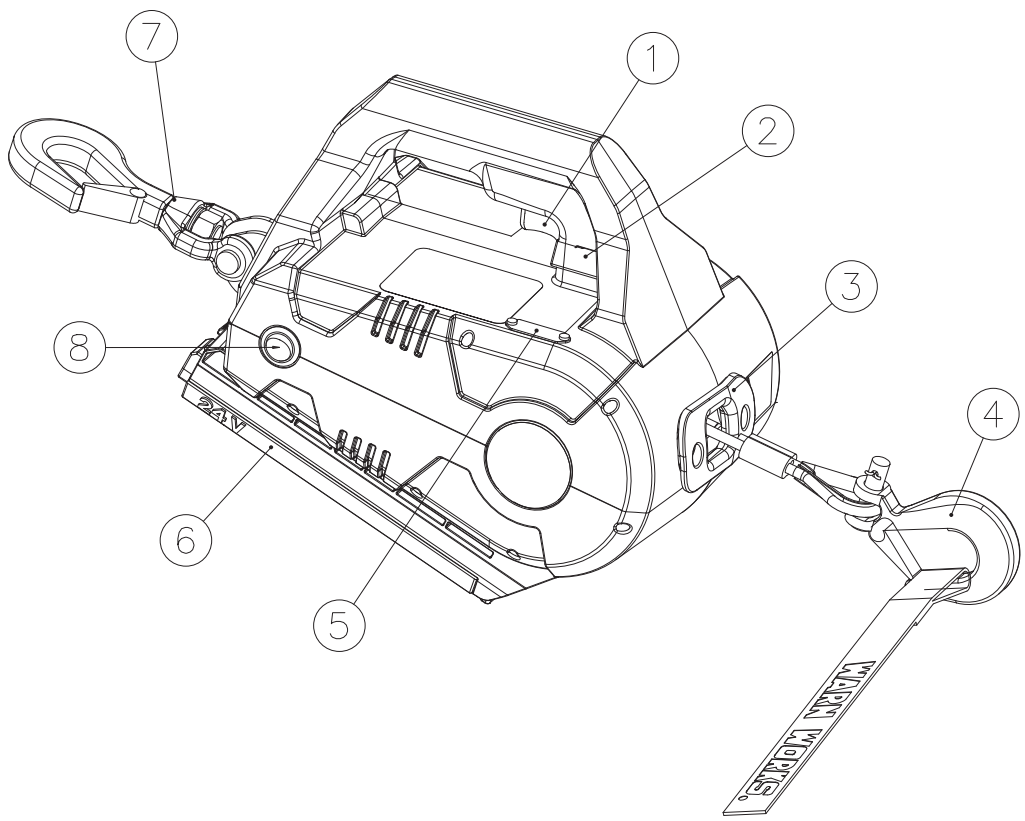
NOTICE

AVOID PRODUCT AND EQUIPMENT DAMAGE

- **Never** use product to tow other vehicles. Shock loads can momentarily exceed capacity of wire rope & product.
- **Never** use product to secure a load during transport.
- **Never** submerge any part of the product in water or use in a wet environment.
- **Always** store product in a protected, clean, dry area.
- **Always** turn power switch off when not in use. Permanent battery damage may occur if the unit is allowed to self-discharge in the ON position.

Features

The WARN Works® PullzAll consists of the following features.



1. Variable Speed Trigger Switch	2. Directional Switch
3. Fairlead	4. Safety Hook with Hook Strap
5. Load Indicator Display	6. Rechargeable battery
7. Swiveling Anchor Hook	8. On / Off Switch

Specification Data for the WARN Works® PullzAll


Max Pulling Capacity	454 kg, (1000 lbs)
Wire Rope Diameter	0.56 cm (7/32 in)
Power Source	24V DC Battery
Power Input	720 W (30 A)

Operating Instructions


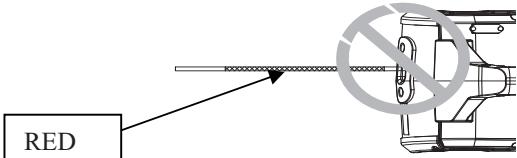
WARNING

SHOCK HAZARD

Failure to observe these instructions could lead to severe injury or death.

- | | |
|---|---|
|  | <ul style="list-style-type: none">• Never operate this product or charge the battery in a wet environment.• Never route electrical cables across sharp edges.• Never route electrical cables through or near moving parts. |
|---|---|

CAUTION

	 <p>RED</p>
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PERSONAL INJURY HAZARD

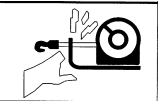

Failure to observe these instructions could lead to minor or moderate injury.

- **Always** wear leather gloves when handling wire rope.
- **Never** spool out past the length of red rope.

WARNING

MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to severe injury or death.

- | | |
|---|---|
|  | <ul style="list-style-type: none">• ALWAYS keep hands clear of the wire rope, hook loop, hook and fairlead opening during installation, operation and when spooling in or out. |
|  | <ul style="list-style-type: none">• ALWAYS use supplied hook strap whenever spooling the wire rope in or out, during installation, or operation to avoid injury to hands or fingers. |

WARNING

	
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CHEMICAL AND FIRE HAZARD

Failure to observe these instructions could lead to severe injury or death.

- **Always** recharge the battery pack using only a Warn specified charger.
- **Always** use a Warn specified battery with the PullzAll.
- **Always** avoid contact with skin and eyes. Battery leakage may occur under extreme usage.
- **Never** allow battery terminals to short circuit. Keep batteries in a safe location away from other metal objects like nails, screws, keys, etc.
- **Never** put batteries into fire or expose to high heat; this may cause batteries to explode.

Operating Instructions - continued

Power Switch

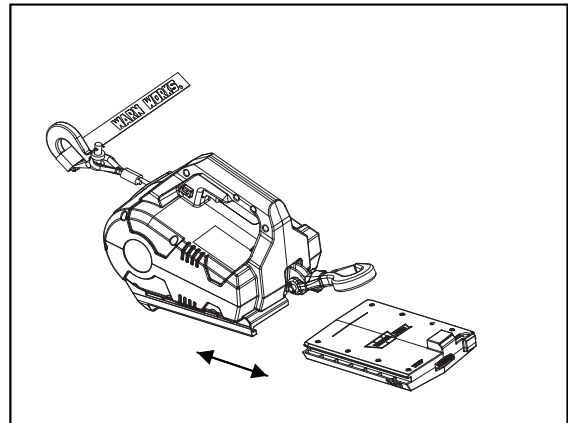
Always turn power switch off when not in use. Permanent battery damage may occur if the unit is allowed to self-discharge in the ON position.

Removing the Battery Pack

Verify the Power Switch is in the OFF position. Push down the release button at the back of the battery and slide the battery away from the PullzAll body.

Installing the Battery Pack

Verify the Power Switch is in the OFF position. Slide the battery pack in to the body, making sure that the latch is fully engaged (*release button in the top position*).



Spooling Rope In and Out

Do the following:

- **Always** take your time to assess your situation and plan your lift/pull carefully.
- **Always**, prior to a lift/pull, inspect mounting structure, the product, slings and/or other accessories for signs of damage. Replace damaged components prior to a lift.
- **Always** know the weight of the load and make sure the rigging, hoist, and mount will carry the weight.
- **Always** verify that the load is directly under or in line with the product, the rope is not tangled or kinked, and that all people are standing clear of the load.
- **Always** take up any slack in the rope slowly. Begin the lift slowly. If there is any evidence of overloading, immediately lower the load and correct the situation.
- **Always** avoid shock loads to the product caused by rapidly lifting or bouncing a load.
- **Always** inspect and carefully rewind rope after each use. Cuts, kinks, or frayed areas reduce the strength of rope. Replace rope if damaged.
- **Always** apply tension to the rope when spooling rope out. If no tension is applied, the rope can ball up inside the product, causing damage.

Avoid the following:

- **Never** use the Load Limiter to stop the travel of the load or to stop the hook against the fairlead.
- **Never** use the load limiting feature to measure the load.
- **Never** spool out rope past the length of red rope.
- **Never** attempt to lift/pull an off-center load of any kind. This can cause the load to swing dangerously. Make sure the load is directly under the product.
- **Never** allow the load to swing or twist.

Overloading & Overheating

Approximate load can be determined from the Load Indicator Display (feature #5), where each bar on the display is approximately 57 kg (125 lbs). When a load greater than 454 kg (1000 lbs) is applied, the product will stop pulling and the last two bars on the display will flash red until the unit can be used again. If this happens, take tension off of the rope and adjust the load to be less than 454 kg; **do not** attempt to apply the same load if the overload sensor has tripped, as this can be harmful to the product.

If the PullzAll will not spool in or out, verify that the Load Indicator Display is no longer flashing and that the battery is still fully engaged and has an adequate charge. If this does not solve the problem, contact the Warn Customer Service department.

The PullzAll is rated for intermittent pulling. If pulling large loads (340-454 kg), do not pull more than 3 m before letting the unit and battery return to room temperature. If repeated high loads or long distances must be applied, a winch or hoist rated for industrial use would be suggested.

Operating Instructions - continued

Variable Speed Trigger Operation

The product is equipped with a variable speed trigger switch. This switch has two general modes of operation:

Variable Speed Mode:

For short distance and fine load positioning.

Full Speed Mode:

For long distance pulling.

Battery & Charger Use

- Before using the battery charger, read all instructions and cautionary markings on the battery charger and battery pack.
- **Always** recharge the battery using only a Warn specified charger. Use of an alternate charger may cause risk of fire. For specific charging instructions, read the user's guide supplied with your charger.
- **Always** use a Warn specified battery with the PullzAll. Use of alternate batteries may cause risk of fire or injury.
- **Always** store battery in a safe location. Keep away from other metal objects like nails, screws, or keys that can contact the terminals, which may cause damage or fire.
- When pulling high loads or long distances, the battery may leak liquid. **Never** contact the battery liquid, as it may cause irritation or burns. If contact occurs, immediately flush with water. If contact occurs with eyes seek medical attention.
- **Always** store the battery in location where temperature is between 0° C (32° F) and 49° C (120° F).
- **Always** allow battery to return to room temperature before attempting to charge.
- **Always** place the charger on a flat, non-flammable surface and away from flammable materials when recharging the battery pack.
- **Never** use or charge a battery that is cracked or otherwise damaged.
- **Never** recharge the battery in a damp or wet environment.

Maintenance & Warranty

MAINTENANCE

Inspect the wire rope and hooks for signs of wear or damage before and after each operation. Worn and damaged parts must be replaced. Do not attempt to lengthen the wire rope or repair a damaged rope.

Examples of rope damage are as follows: Kinks, cuts, knots, mashed or frayed portions, and broken strands.

Examples of hook damage are as follows: Cracks, twisted components, excessive opening, seat wear, loose or unclosed safety gate, and corrosion. Do not attempt to lengthen the wire rope or repair a damaged rope.

Any hook that has twisted components or excessive opening may indicate over-loading of the product. Contact the WARN Industries Customer Service department to inspect all load bearing components for damage.

Keep the rope and hooks free from contaminants. Use a clean towel to remove dirt & debris. Using light oil on the wire rope and hooks can prevent corrosion from forming. Be sure to keep clear of electrical terminals on battery pack while cleaning.

Verify that the battery is not cracked or otherwise damaged.

Always use WARN Industries Replacement Parts when the product needs to be serviced. Contact the Warn Customer Service department to find the proper replacement part numbers (contact information listed in Warranty section).

WARRANTY

see separate sheet packed with product

-or-

If warranty sheet is lost or misplaced contact:

**Warn Industries, Inc.
Customer Service Dept.
12900 SE Capps Rd
Clackamas, OR 97015-8903.**

United States:

Phone: 503.722.1200 or (800) 543-9276 (US only)

Fax: 503.722-3000

International:

Phone: 503.722.3008

Fax: 503.722.3005

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