

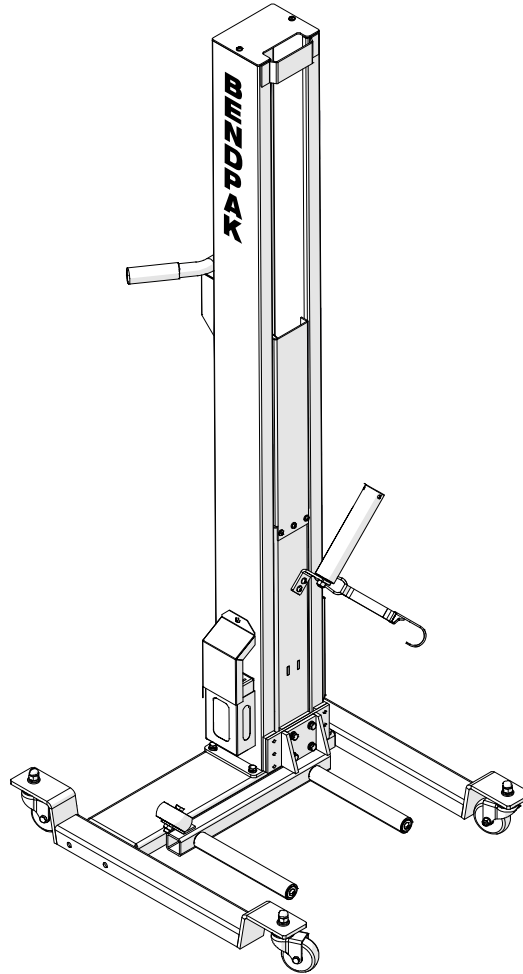
Battery Operated Wheel Lift

Assembly and Operation Manual

Manual P/N 5900234 — Revision A1 — April 2025

Model:

- RWS-200WL



DANGER

Read the *entire contents* of this manual *before* using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. ***By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.***

Manual - *Battery Operated Wheel Lift, Assembly and Operation Manual*, P/N 5900234, revision A1, released April 2025.

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Limitations - Every effort has been made to use complete and accurate instructions in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak/Ranger reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak/Ranger is not responsible for typographical errors in this manual. Feel free to contact us at any time to get the latest information about any product by scanning the QR code or visiting bendpak.com.

Warranty - The BendPak/Ranger warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details, contact your nearest BendPak/Ranger dealer or visit bendpak.com/support/warranty.

Safety - Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on it; **do not use this product unless you can do so safely!**

Owner Responsibility - In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to read and follow these instructions:

- Follow all installation, operation, and maintenance instructions.
- Make sure product installation conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.
- **BendPak** makes no promises, guarantees or assurances that our products meet any state, county, federal or international mandated permit, license, code, standard, certification, or any other mandate other than what is listed or shown on BendPak website(s), or any BendPak or Ranger online or published catalog. Not all BendPak Lift models meet the standards as prescribed by ANSI/ALI ALCTV-(current edition) or ANSI/UL 201. Consult www.autolift.org for a complete list of Lift models that meet ANSI/ALI ALCTV-(current edition) or ANSI/UL 201 or contact BendPak via sales@bendpak.com. **Buyer assumes full responsibility for any state, county, federal or international mandated permit, license, code, standard, certification, or any other mandate required related to the installation and/or operation of any BendPak product.** BendPak will not be responsible for any charges, fines, liens, or other levies imposed on the Buyer related to any special or regional structural, seismic or any other building code and/or codes such as the Uniform Building Code (UBC), International Building Code (IBC), or any other state, county, federal or international mandated permit, license, code, standard, certification, or other mandate, law, rule, regulation or directive by any other agency, government, administrations, or corporations whether state, county, federal, or international mandated.

Only use this Lift if it can be used safely!

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the ID label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

Designed and engineered by BendPak Inc. in Southern California, USA.
Made in China

BendPak		30440 Agoura Road Agoura Hills, CA 91301 USA	
MODE LN O./ N° DE MODÈL E		SÉRI AL N O./ N° DE SÉRI E	
DESCRIPTION			
VOLTAGE / TENSION			
UPC	DATE COD E		
	VER.	REV.	
SCAN TO FIND LATEST MANUAL & PARTS LIST		⚠ DANGER! Disconnect Power Before Servicing Débrancher l'alimentation avant l'entretien	
WARRANT VOID IF A PLATE IS REMOVED GARANTIE NULLE SANS LA PLAQUE D'INFORM		MADE IN CHINA / FABRIQUÉ EN CHINE PN 900612 	

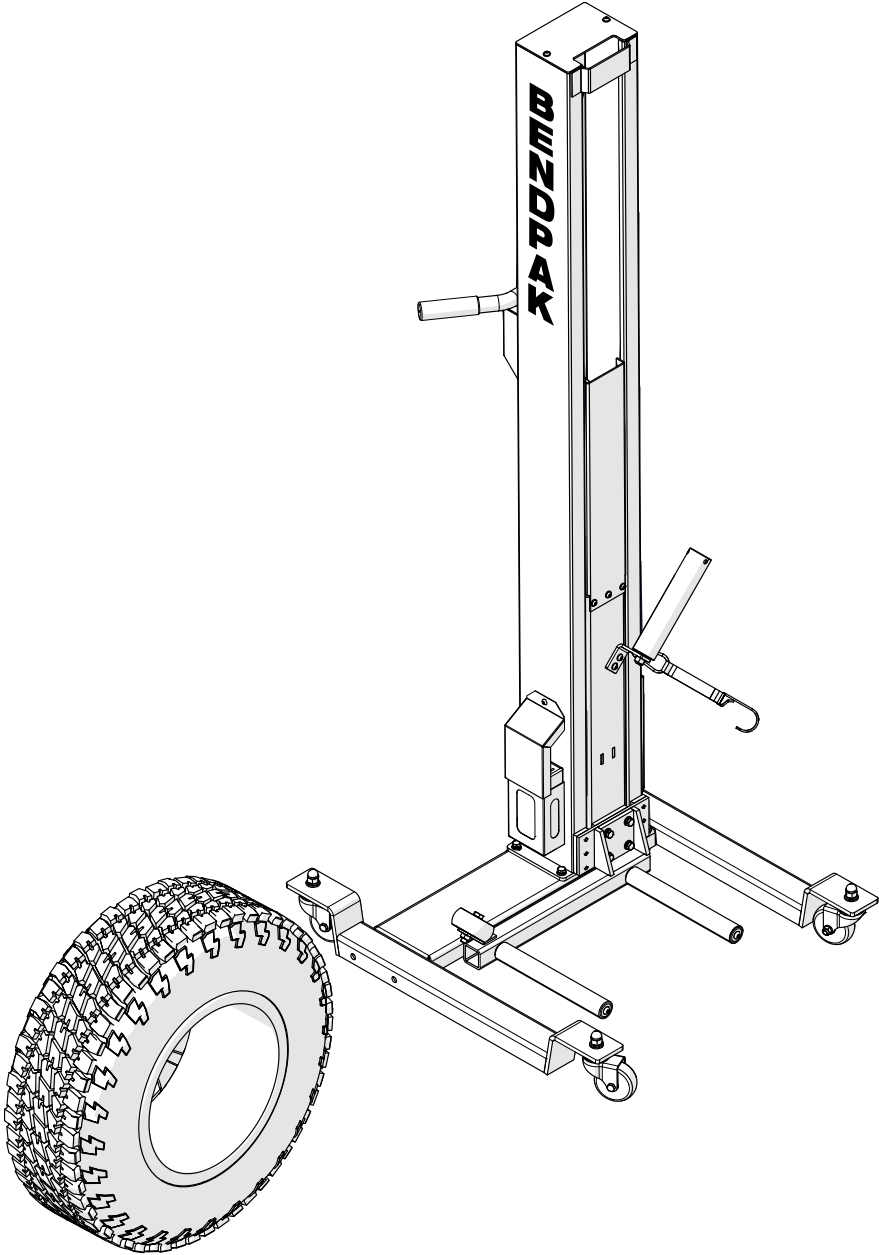


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Introduction

This manual describes the assembly and operation of the BendPak RWS-200WL, a battery operated wheel lift.

This Lift is designed to move and lift wheels onto vehicles, balancers or other tire and wheel service equipment. Constructed of rugged powder coated steel, the RWS-200WL has a maximum capacity of 200 lbs. (90.7 kg). A linear actuator consisting of a 24VDC motor and reduction gearbox drives a hardened acme lead screw to move the load up and down. DC power is provided by a rechargeable 24 volt, 44Ah lithium ion battery. The battery charger supplied with the Lift operates from 110 to 240VAC at 50 or 60 Hz. More information about the full line of BendPak products is available by scanning the QR code or visiting bendpak.com.



SCAN FOR VIDEO

This manual is mandatory reading for all RWS-200WL Wheel Lift users.

⚠ DANGER Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual near the equipment so that anyone who uses it can read it. Technical support is available by calling BendPak support **(800) 253-2363**. Follow the prompts to reach Customer Service.

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it. When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. ***Do not sign the bill of lading until after you have inspected the shipment.*** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods. If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request. It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Symbols

Following are the symbols used in this manual:



DANGER Calls attention to a hazard that **will** result in death or injury.



WARNING Calls attention to a hazard or unsafe practice that **could** result in death or injury.



CAUTION Calls attention to a hazard or unsafe practice that **could** result in personal injury, product damage, or property damage.

Liability Information

BendPak assumes **NO** liability for damages resulting from:

- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior written permission from BendPak.
- Injury or death caused by modifying, disabling, overriding, or removing safety features.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Safety Considerations - Read before Operation

Read this manual carefully before using your new product. Do not use the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to use the product until they are also familiar with all operating instructions and warnings.



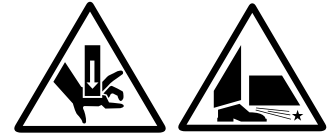
WARNING California Proposition 65. This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. **ALWAYS** use this product in accordance with BendPak's instructions. For more information go to www.P65Warnings.ca.gov.

General Safety Information

Please note the following:

- **The RWS-200WL is a Wheel Lift. Use it only for its intended purpose as described in this manual.**
- The Wheel Lift is **NOT** a toy. **Do Not allow Children** or those unfamiliar with its operation to use or play with the wheel lift.
- This wheel lift is designed for indoor use only.
- Do not exceed the maximum weight limit of 200 lbs. (90.7 kg).
- Do not add or replace parts (i.e., battery, wheels, or mechanical components) with items of different weights, specifications, or positions on the Lift. These changes can shift the Lift's center of gravity and/or compromise its stability.
- Use only factory-approved replacement parts for this lift.
- The Wheel Lift *cannot* be used to hold a load aloft on a long-term basis. Use the RWS-200WL to lift a wheel, perform the desired work, then lower the carrier to the ground.

- This lift should only be operated by authorized and capable personnel. Keep children and untrained personnel away from the product.
- Follow the instructions in this operating manual and applicable standards for daily, monthly, and annual inspections and maintenance.
- Wear appropriate work clothes, steel-toed boots, and ANSI-approved safety goggles.
- **Do not make any modifications to the product; this voids the warranty.**
- Make sure all operators read and understand this *Assembly and Operation Manual*. Keep the manual near the device at all times.
- Crushing hazard and pinch points. Do not place any part of your clothing or body between moving sections of the Lift mechanism while in operation.
- Always secure the wheel and tire to the Lift using the tie down strap.
- Keep loads centered, balanced and secured on the Lift rollers. Clear the area immediately if a load is in danger of falling off the Lift.
- This lift may become top heavy when lifting a wheel and tire. Always observe the lift and lower the load immediately when signs of tipping are noted.
- Make a visual inspection of the product before each use. Do not use the product if you find any missing or damaged parts. Instead, take the unit out of service, then contact an authorized repair facility, your distributor, or BendPak Support at **(800) 253-2363** follow the prompts to reach customer service.



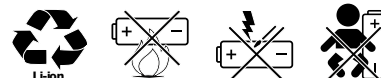
- ⚠ DANGER** Do not leave the lift unattended while loaded with a wheel lifted off the ground, or in the vicinity of any slope or downward area, where the lift may begin to roll or tip away from the operator's control.
- ⚠ DANGER** Failure to heed these warnings may result in loss of Load, damage to the wheel lift, and/or failure resulting in property damage, personal or fatal injury.
- ⚠ WARNING** **NEVER** exceed the lift's rated capacity of 200 lbs. (91 kg). Overloading can cause damage to, or failure of the lift.
- ⚠ WARNING** The wheel lift is designed for use only on hard, smooth level surfaces such as concrete. Use of the wheel lift on other than smooth hard level surfaces can result in instability of the lift and possible loss of the load on the lift.
- ⚠ WARNING** Due to the potential hazards associated with lifting wheels and tires, wheel lift alterations are not permitted, and voids the warranty.
- ⚠ WARNING** The wheel lift is to be operated by properly trained and capable personnel only. Operation by untrained personnel may result in injury and/or property damage. Children should not be allowed to operate the wheel lift, nor use it as a toy, and/or occupy the surrounding area during use.
- ⚠ WARNING** Be aware that sloped surfaces and uneven loading may result in unanticipated movement of the lift (tipping).
- ⚠ WARNING** Never wear jewelry while operating this lift. Keep hair, loose clothing, and body parts away from moving parts of the lift.

 **WARNING** Always wear proper OSHA approved personal protective equipment. Steel toed non-slip boots, gloves and ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.

 **WARNING** Always keep guards and safety features in place and in working order.

 **WARNING** Replace any damaged or worn parts with factory-approved replacements only.

Lithium-ion Battery Safety



 **DANGER** **DO NOT** expose to water, rain, or snow.

 **DANGER** Damaged batteries pose a risk of electric shock, exposure to toxic, corrosive and flammable vapor and materials. **DO NOT TOUCH.**

 **DANGER** **DO NOT** leave this battery in direct sunlight or locations that may exceed the batteries' safe operating temperature.

 **DANGER** **DO NOT** use this battery if swelling, bulging, or leaking occurs.

 **DANGER** **DO NOT** use this battery if hissing or popping sounds occur.

 **DANGER** **DO NOT** use if the battery is hot, or smoke is visible.

 **DANGER** **NEVER** operate the lift while charging the battery.

 **DANGER** **NEVER** dispose of lithium-ion batteries in normal household or commercial waste. Contact an electronic waste disposal site to dispose of or recycle the battery in accordance with all national, state and local regulations.

Linear Actuator Safety

 **DANGER** **NEVER** exceed the maximum lift capacity 200 lbs. (90.7 kg).

 **DANGER** **NEVER** service the linear actuator or its installation while power is applied.

 **DANGER** **NEVER** unplug cables or connectors during operation or while power is applied.

 **DANGER** **NEVER** open the linear actuator, as doing so will compromise its seal and functionality.

 **CAUTION** There are no user-serviceable components inside the actuator.

 **CAUTION** The actuator is lubricated and sealed before leaving the factory. Under normal operating conditions, it remains lubricated for its entire service life.

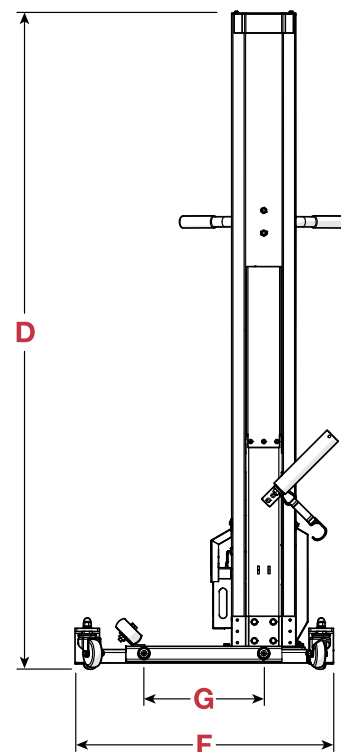
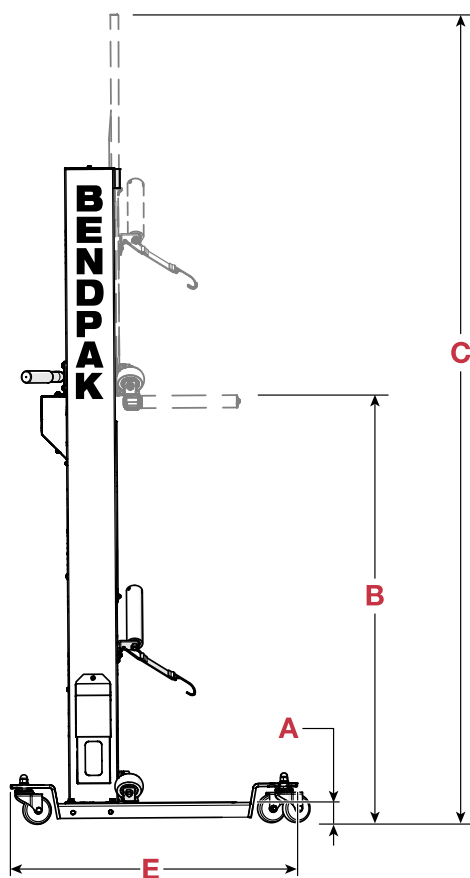
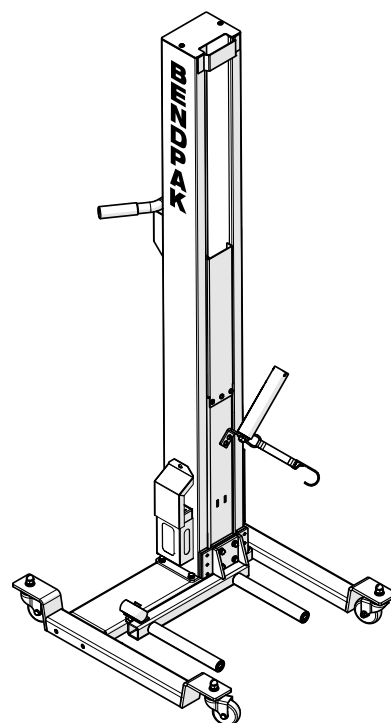
 **CAUTION** Before working on this equipment, read the user's manual and any other available documentation thoroughly.

 **CAUTION** Immediately stop using the actuator if it appears faulty or damaged in any way. Notify the appropriate personnel so that corrective measures may be taken.

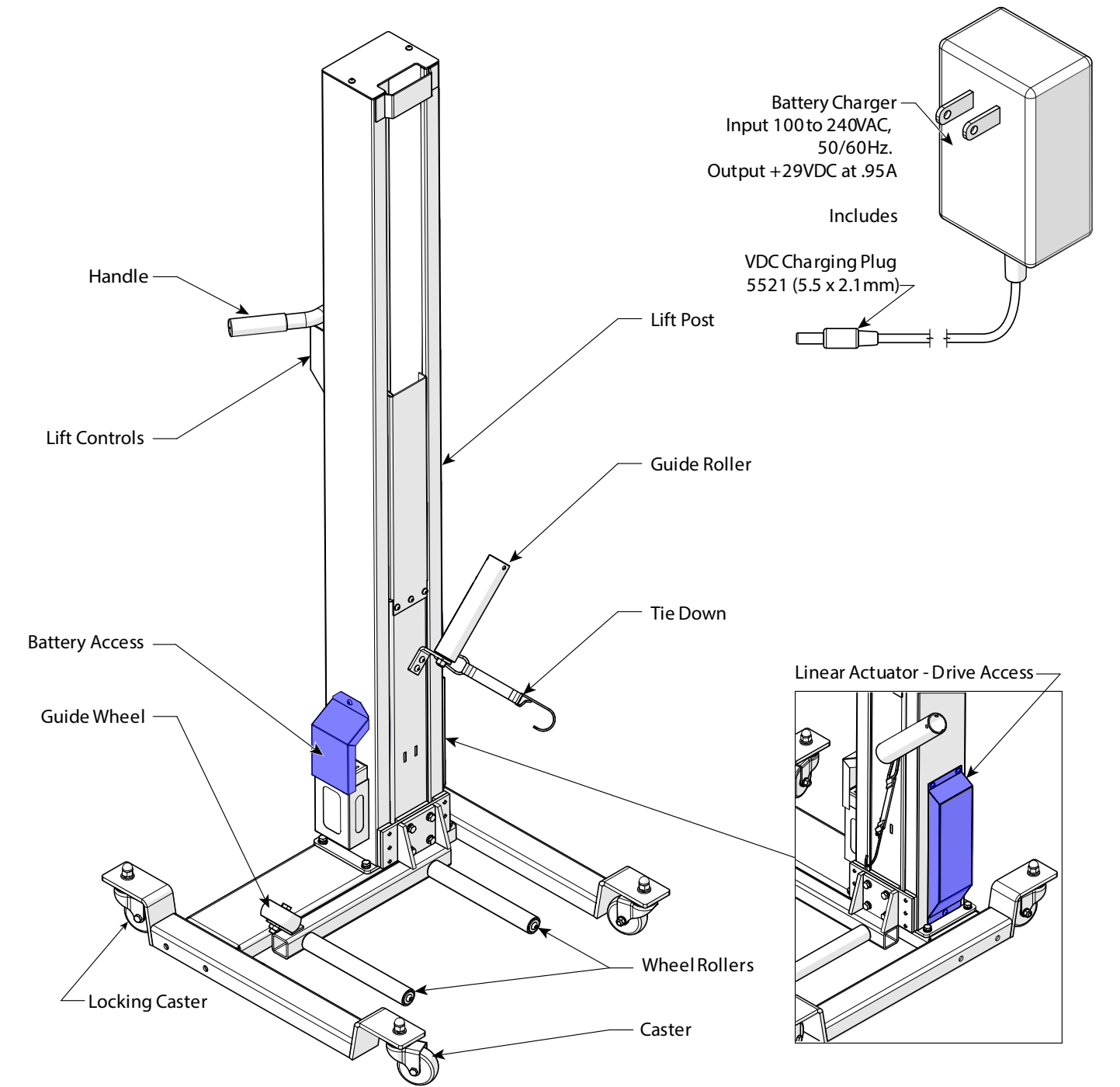
Specifications

Specifications subject to change without notice. Unless otherwise noted, all dimensions rounded to the nearest 1/4 in.

Wheel Lift Model	RWS-200WL
Max. Lift Capacity	200 lbs. (90.7 kg)
A - Min. Lowered Height at Wheel Roller	2.5 in. (65 mm)
B - Max. Raised Height at Wheel Roller	45 in. (1,140 mm)
C - Max. Height, extended	85.25 in. (2,165 mm)
D - Max. Height, lowered	68.75 in. (1,746 mm)
E - Base length	30 in. (760.7 mm)
F - Base width	27 in. (686 mm)
G - Roller distance, center to center	12.5 in. (318.75 mm)
Raise / Lower Speed	1.6 in./Sec. (40 mm/Sec.)
Operating Temperature	+32° to +113°F (0° to +45°C)
Battery Capacity	44.8 Ah
Battery Output Voltage	24VDC
Battery Continuous Working Current	5A
Battery Maximum Working Current	10A
Battery Working life*	500 to 1000 charge cycles
Battery Charger with Cord and DC Plug type 5521 (Ø5.5 x 2.1 mm)	Input: 100 to 240VAC, 50-60 Hz., 0.5A Output: 29.4VDC at .95A
*The battery life is estimated at ≈500 charge cycles under 10A and up to 1000 cycles under 5A.	



Components



Assembly

This section describes assembly procedures for the RWS-200WL. Only fully trained personnel should be involved in the assembly and operation of this equipment. **Always pay attention.** Use appropriate tools and equipment. Stay clear of moving parts and live electrical components.

-  **WARNING** Always use the proper tools, such as a shop crane or hoist, to move heavy components.
-  **WARNING** You must always wear the proper protective equipment during setup and operation of this Lift: leather gloves, steel-toed boots, back belts, and hearing protection.
-  **WARNING** **Use only the factory-supplied parts delivered with your Lift.** If parts are used from a different source, you void the warranty and compromise the safety of everyone who assembles or uses this Lift. If you are missing parts, visit bendpak.com/support or by phone at **(800) 253-2363**, follow the prompts to reach support.

Assembly Checklist

1. ☐ Read and understand this manual before beginning the assembly.
2. ☐ Read and pay careful attention to all cautions, warnings, and danger indications in this manual.
3. ☐ Read and pay careful attention to all Lift labels detailing cautions, warnings, and dangers.
4. ☐ Gather the required tools and supplies.
5. ☐ Select a clean site for setup and operation.
6. ☐ Unpack the wheel lift. Remove the components from the shipping crate.
7. ☐ Charge the lift battery.
8. ☐ Assemble the base and base arms.
9. ☐ Assemble the lift post to the base assembly.
10. ☐ Assemble the handle weldment to the lift post and control.
11. ☐ Install the roller assemblies onto the lift carriage.
12. ☐ Install the carriage and rollers assembly onto the Lift.
13. ☐ Install the battery if $\geq 25\%$ charge and connect to power the lift.
14. ☐ Install the battery cover.
15. ☐ Verify all fasteners are tight.
16. ☐ Lubricate prior to use.
17. ☐ Perform an Operational Test.
18. ☐ Review the Final Checklist.
19. ☐ Leave the Manual at the Lift for the Owner/Operator.

Tools and Supplies required:

- Pry Bar
- Open End Wrenches
- Sturdy Workbench or Sawhorses
- Hex Key Set
- Hammer
- Screwdrivers
- #3 General Purpose Lithium Grease

Select a Site for Assembly and Operation

Find a location for setup near where the wheel lift will be used. Keep the following in mind when selecting a site:

- **Clearance.** Adequate unobstructed space on all sides and space above the Lift for assembly and testing are required.
- **Operator.** The operator at the controls **must** maintain a full, unobstructed view of the Lift at all times.
- **Level floor.** Inspect the floor and check for defective concrete. Verify the floor is dry, level, in good condition, and has a minimum compressive strength of 500 psi. Do not attempt to roll the lift over broken/defective concrete.

 **DANGER** Do not operate the Lift on a surface with a slope of 3° or greater. A sloped surface can cause a loss of lift control/balance leading to property damage, severe personal injury, or death.

- **Outdoor operation. Outdoor use is prohibited.** This Lift is intended for indoor use only. Never expose this Lift or its battery to rain or snow.

Unpacking

To remove the Lift from its shipping crate, gather the following tools: a hammer, pry bar, and an assistant and/or lifting equipment such as a hoist, or shop crane. Follow the procedure described below.

 **DANGER** The RWS-200WL is heavy. Assembling the wheel lift is to be accomplished by competent, experienced personnel ensuring the Lift is properly assembled and components secured for lifting. Operating personnel should have knowledge, training, and experience in safe lifting, and rigging of heavy objects.

 **WARNING** You must always wear the proper protective equipment during assembly and operation of this Lift: leather gloves, steel-toed boots, back belts, hard hats, and hearing protection.

 **WARNING** Exercise caution. Do not damage the Lift while removing components from the shipping crate.

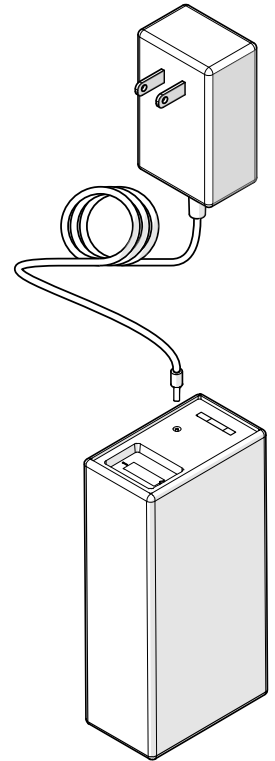
Assembly Procedure:

Follow the steps provided below to safely assemble the RWS-200WL.

To assemble the Wheel Lift:

1. Retrieve the lift battery and its charger from the packaging.
2. Locate a cool, dry place with access to an electrical outlet to charge the battery. Connect the charger to a power outlet and allow the battery to charge until it is at or above 80% capacity.

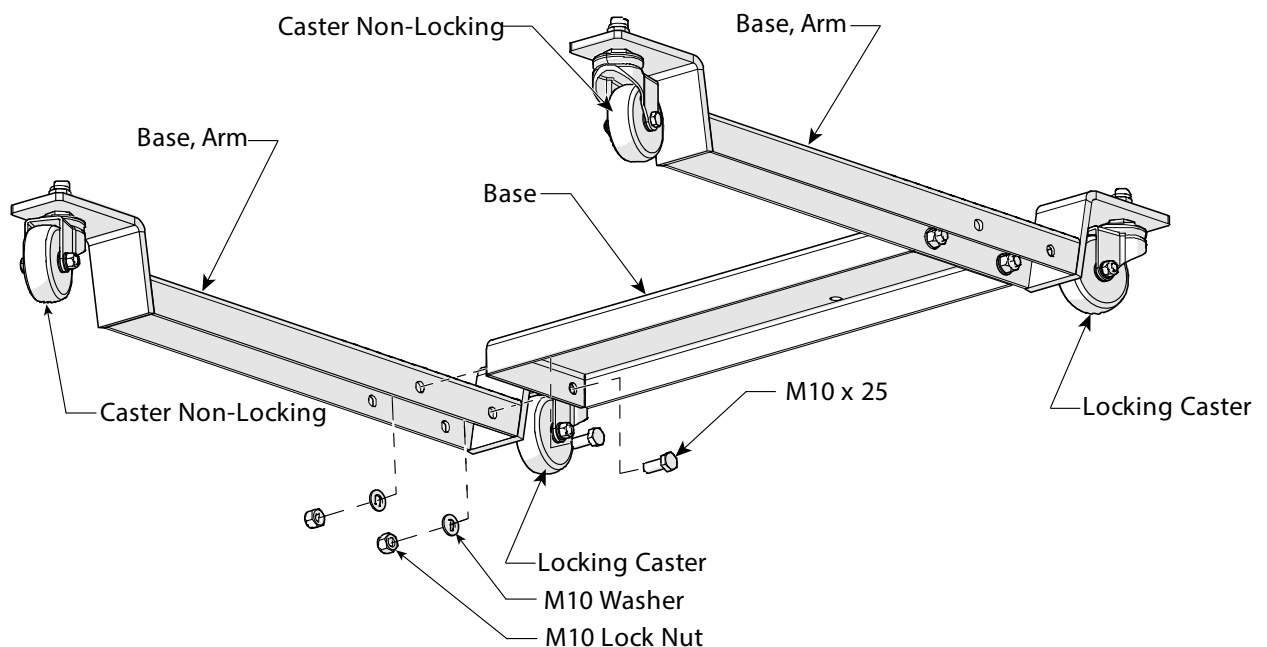
Important: The battery charger incorporates a plug designed for a 120 VAC, 60 Hz. single phase outlet. The charger will operate with a power input up to 240VAC and at a frequency down to 50 Hz. *Customers outside the United States may require an adapter (not included) to mate with the RWS-200WL battery charger plug.*



3. Retrieve the base, two base arms with two locking and two non-locking casters.
4. Retrieve four each hex head bolts M10 x 25, M10 flat washers and M10 lock nuts.
5. Assemble the base to the base arms using the fasteners as detailed in the figure below.

Important! Orient both arms with the locking casters closest to the base side as shown.

6. Tighten all fasteners.



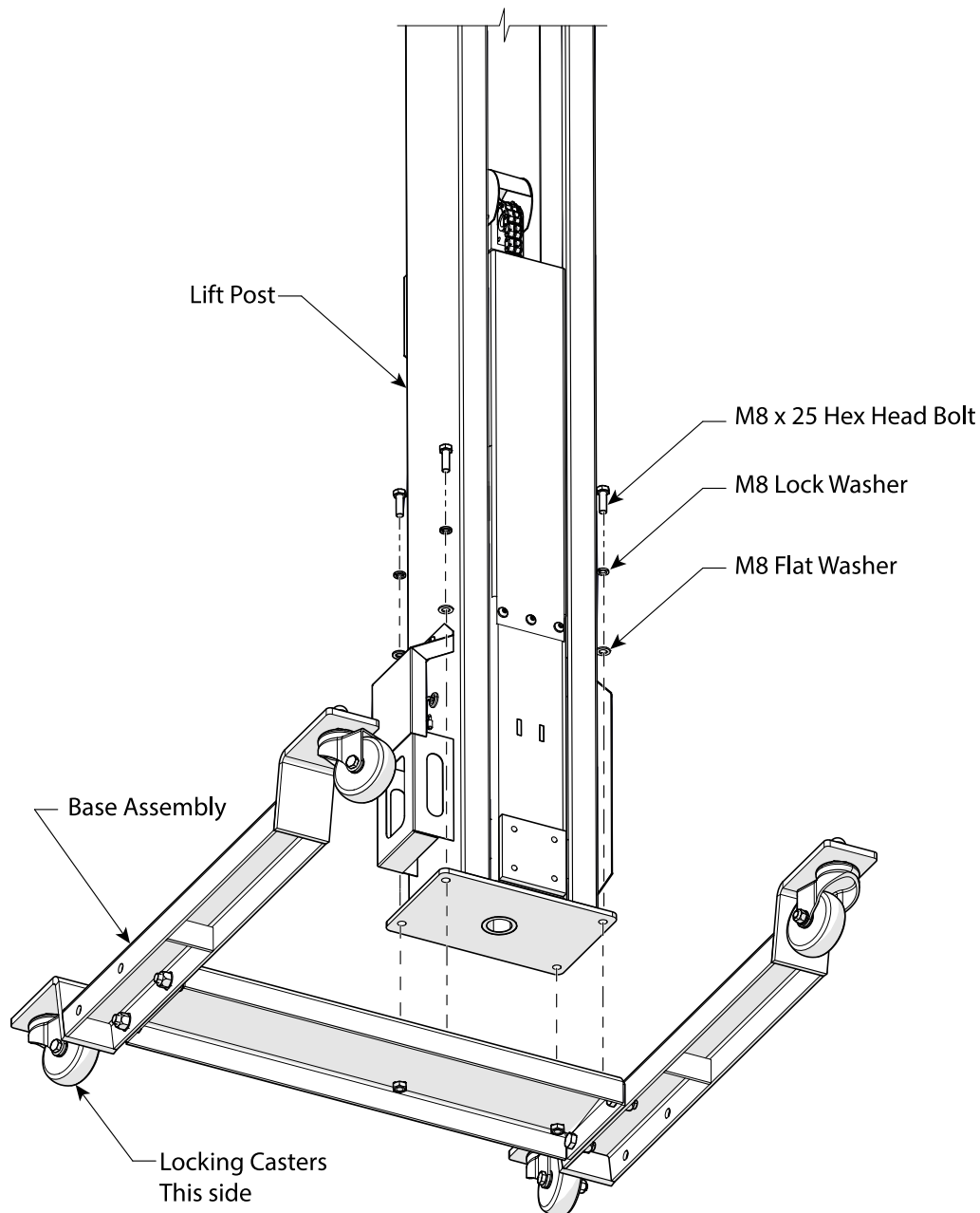
7. Retrieve four each M8 x 25 bolts, M8 lock washers, and M8 flat washers.
8. Retrieve the lift post and move onto a bench or sawhorses providing access to the bottom flange.

⚠ CAUTION The lift post is heavy and awkward to handle. An assistant is required to safely lift and assemble the post to the base assembly.

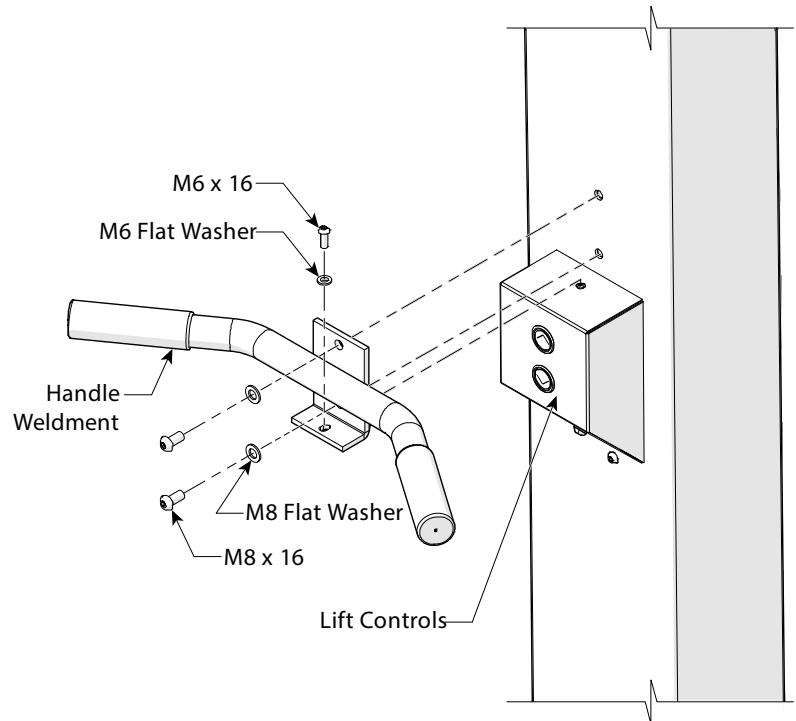
9. Attach the post to the base using the M8 bolts, lock washers, flat washers and hex nuts retrieved in step 7.

Important! Verify the post is oriented on the base as shown below. The open side of the lift post should face away from the locking casters.

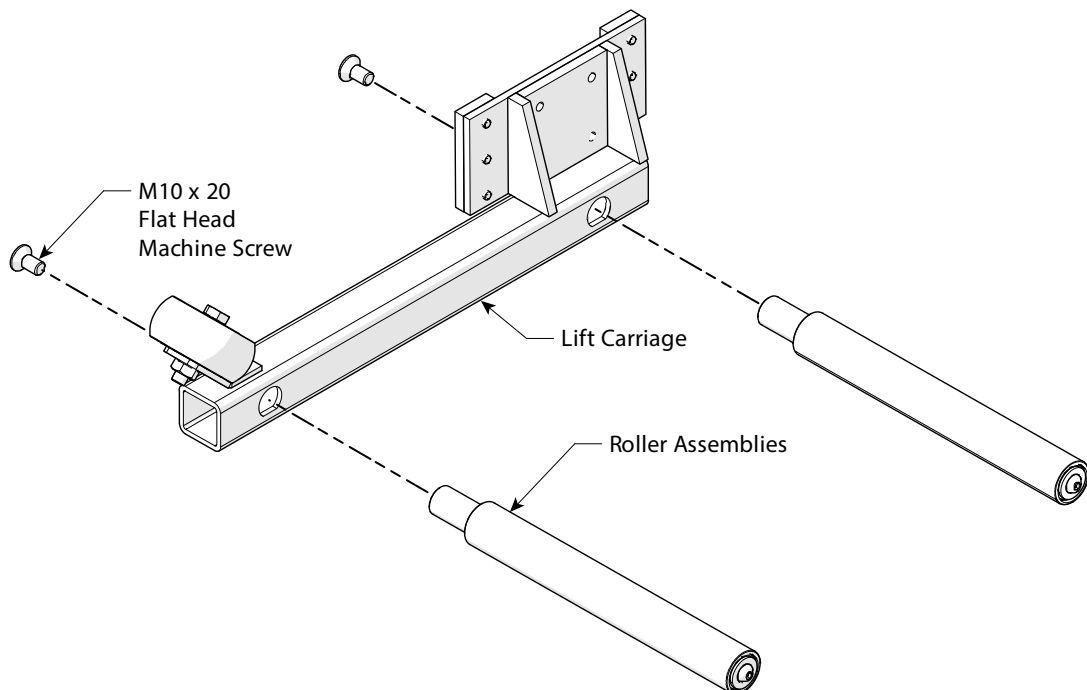
10. Verify all fasteners are tight before proceeding.



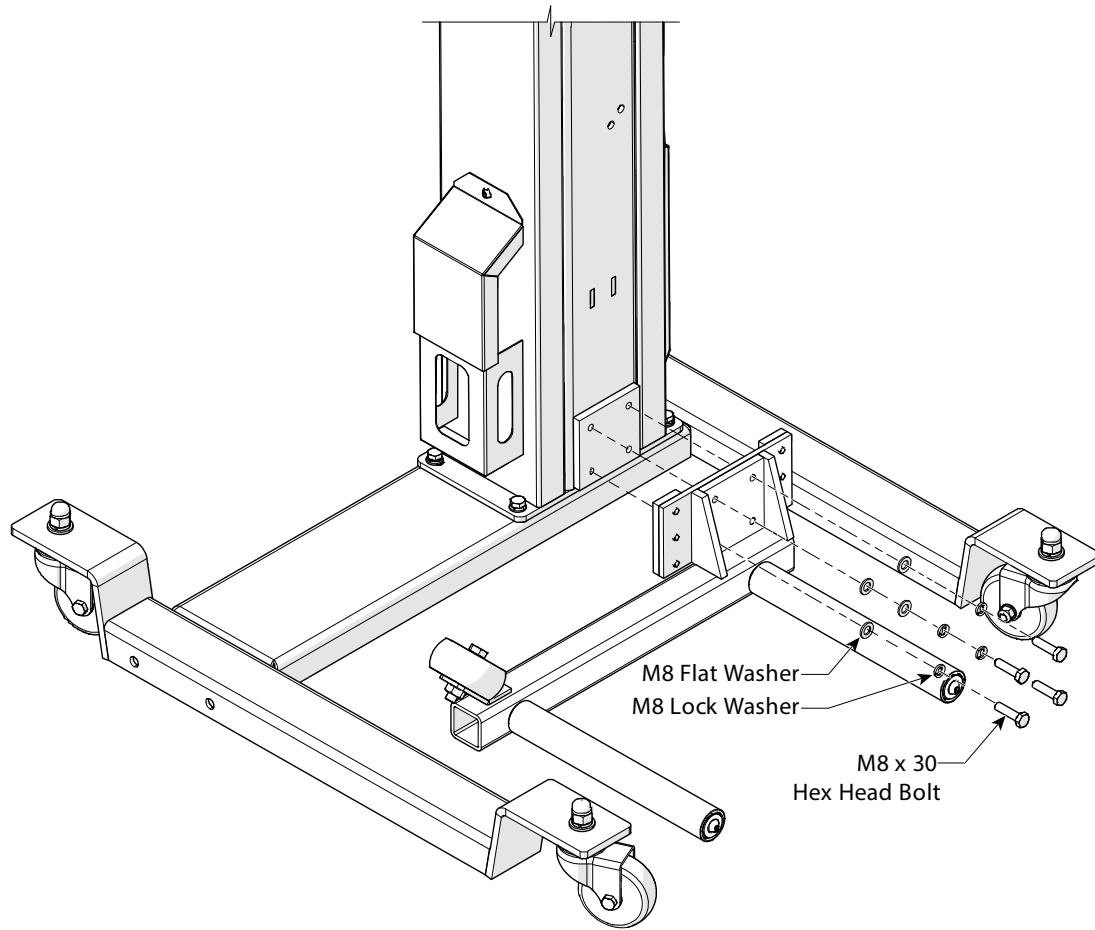
11. Move the lift post and base to an upright position by placing the casters on the floor.
12. Retrieve two M8 x 16 screws and M8 flat washers.
Retrieve one M6 x 16 screw and M6 flat washer.
13. Secure the handle weldment to the lift post using the two M8x 16 screws and flat washers.
14. Secure the handle to the lift controls using the M6 x 16 screw and flat washer as detailed in the figure to the right.



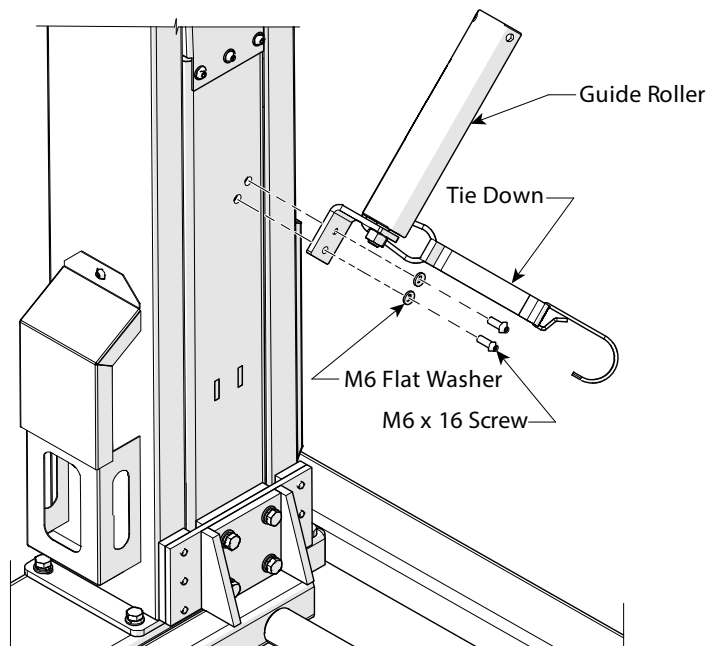
15. Retrieve the two roller assemblies, two M10 x 20 flat head screws and the lift carriage.
16. Secure the roller assemblies onto the lift carriage using the two M10 x 20 flat head screws.



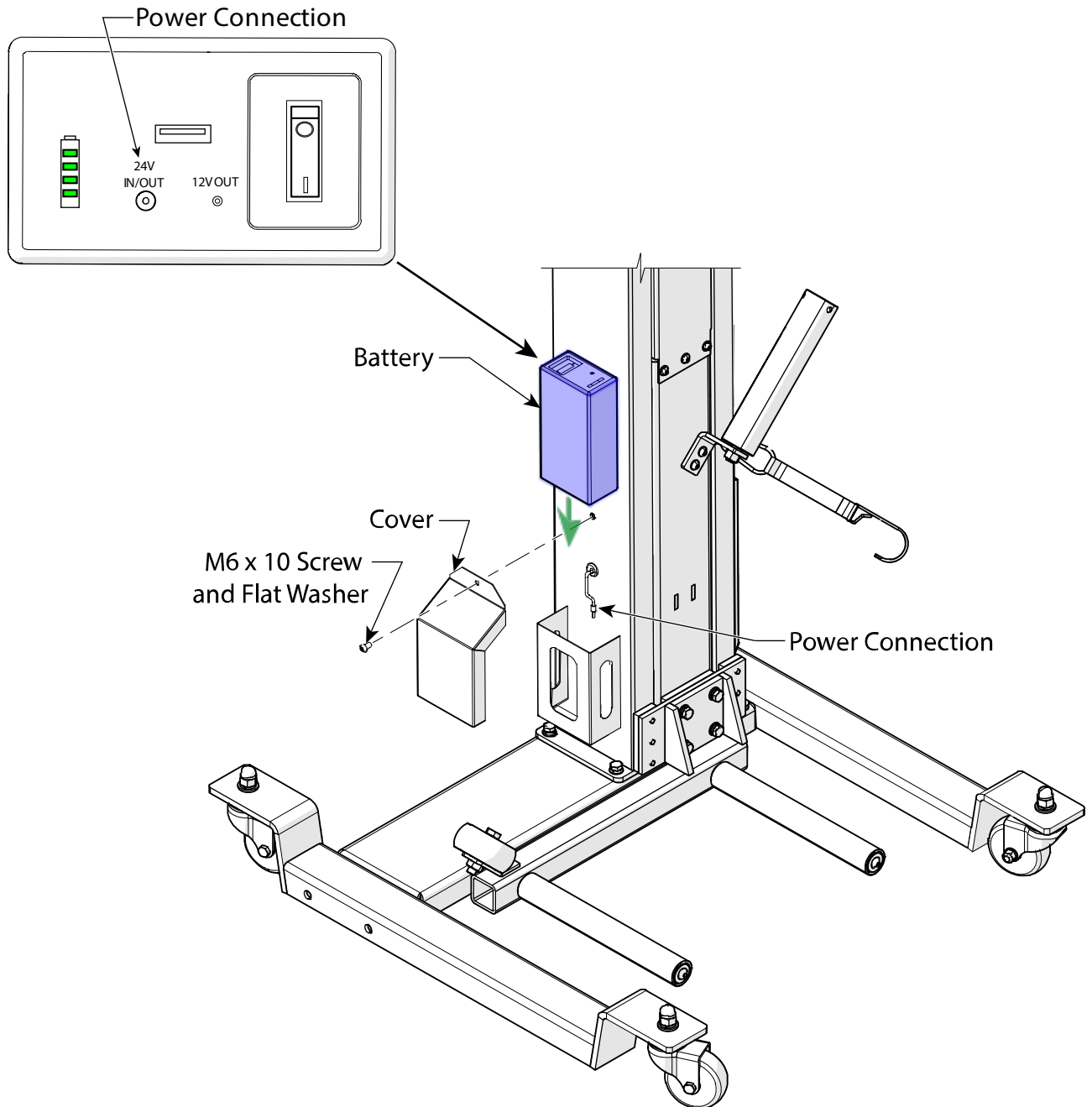
17. Retrieve the four M8 x 30 hex head bolts, lock washers and flat washers.
18. Secure the lift carriage and roller assembly to the lift as shown below.



19. Retrieve the guide roller and bracket, two M6 x 16 machine screws and flat washers.
20. Secure the Guide Roller bracket to the lift as shown below.
21. Attach the tie down to the guide roller bracket.



22. Remove the battery charger plug from the battery and verify the charge is $\geq 25\%$.
23. Remove the battery cover and carefully place the battery in its mount.
24. Insert the power connector into the 24V In/Out port on the battery.
25. Replace the battery cover and secure with the M6 x 10 fastener.
26. Verify all fasteners have been tightened.



Review Final Checklist

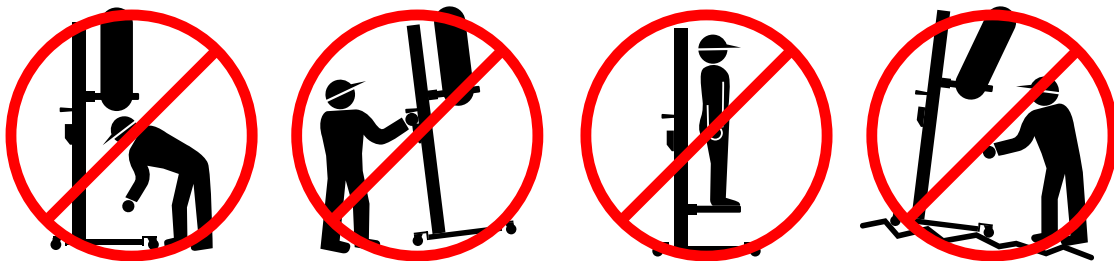
1. ☐ Make a visual inspection prior to each use of the wheel lift. The inspection should examine the lift for damaged, loose, worn or missing components and/or wiring.

Do not use the product if you find any missing or damaged components. Instead, take the unit out of service, then contact an authorized repair facility, your distributor, or BendPak at **(800) 253-2363** follow the prompts to reach customer service.

2. ☐ Verify all fasteners are tightened.
3. ☐ Verify the wheel tie down is intact and not damaged or worn.
4. ☐ Verify the lift battery has a charge $\geq 25\%$.
5. ☐ Verify the wheel/tire to be lifted does not exceed the maximum capacity of the wheel lift.
6. ☐ Verify the flooring in the work area is smooth, hard, and level concrete.
7. ☐ Verify the lift casters move freely and that the locking casters function correctly.

DANGER

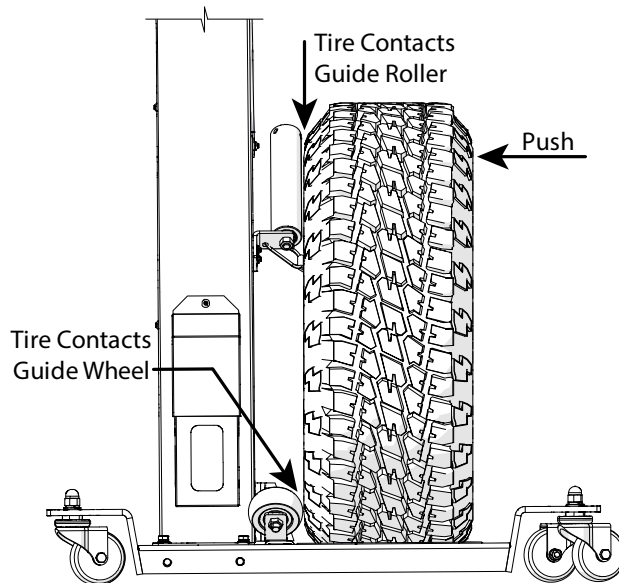
- **Do not** exceed the max. rated load capacity.
- **Do not** use this machine to lift personnel.
- **Do not** stand, sit or climb on this machine.
- **Do not** raise a load unless the machine is on a firm, level surface
- **Do not** move this machine with a raised load.
- **Do not** use blocks to level this machine.
- **Do not** raise a load that is not properly centered on the rollers.
- **Do not** stand under or allow personnel under the machine when the load is raised.
- **Do not** lower a load unless the area below is clear of personnel and obstructions.
- **Do not** attempt to move the machine while raising or lowering.
- **Keep hands and feet clear** of all pinch points at all times.
- **Do not** use this machine if it is damaged or malfunctioning.
- **Always** unplug this machine prior to servicing.
- **Never** leave this machine unattended with a load on its rollers.



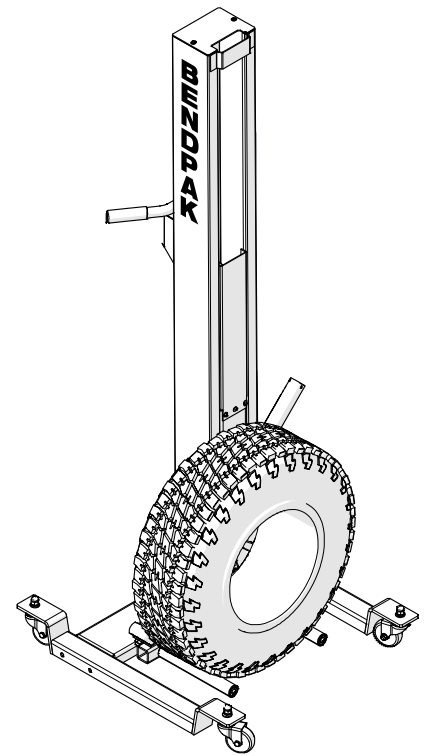
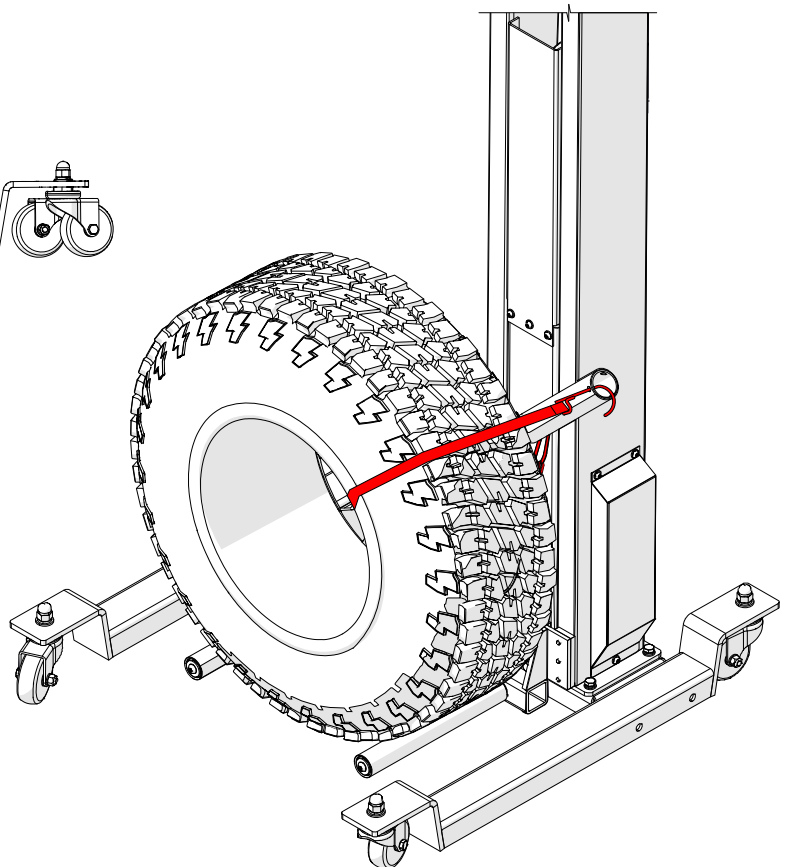
Operation

To raise the load:

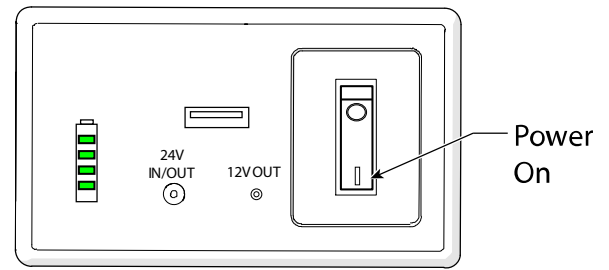
1. Inspect the lift for damage or wear before every use. **Only use the lift if it can be used safely.**
2. Verify the following:
 - a. The two rear casters are locked, and the lift is stable.
 - b. The wheel rollers are in their lowest position
 - c. The work area is free from obstructions.
3. Roll the wheel onto the wheel lift.
4. Verify the wheel is stable and resting on both wheel rollers.
5. Push the wheel back toward the lift and push against the guide roller and wheel. Refer to the figure below.



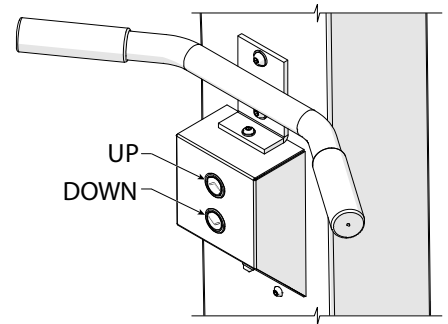
6. Secure the wheel to the guide roller using the attached tie down.



7. Turn the battery power switch to the on position.
8. Verify there is a sufficient charge to operate the lift $\geq 25\%$.
9. Press the up button to raise the wheel off the ground by a few inches.
10. Unlock both locking casters.
11. Grasping the lift handles, carefully move the lift and wheel to the work location.
12. Align the wheel and lift to face the work area.
13. Lock the casters to prevent lift movement.
14. Verify there are no obstructions above or around the wheel lift that could be struck by the lift's motion.



⚠ WARNING Keep all body parts and loose clothing away from pinch points on the lift.



15. Lift the wheel to its work height by pressing the up button.
16. Release the up button when the wheel is at the correct height.
17. Carefully release the tie down strap and move the wheel onto the service equipment or vehicle.

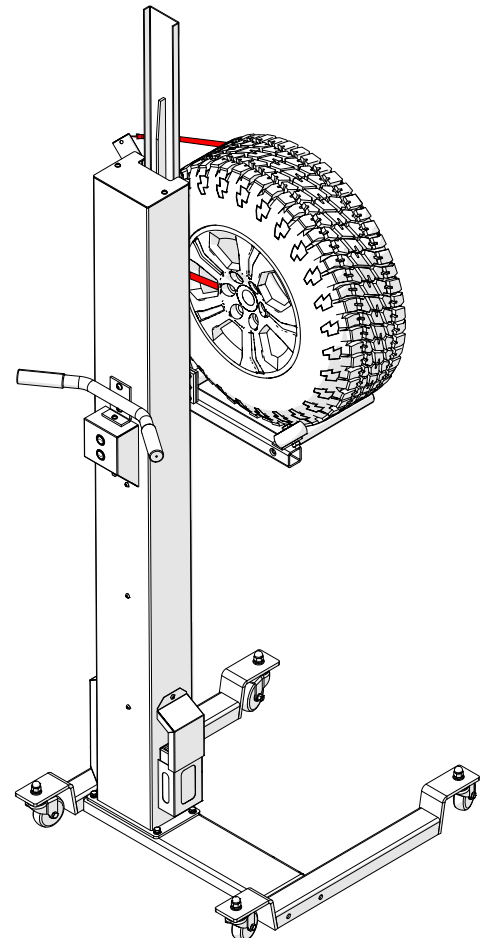
⚠ WARNING When the tie down is released the wheel is free to move. Be aware that shifting the center of gravity by moving heavy wheels along the lift's rollers **may cause the lift to become unbalanced and create a tip over hazard or make the wheel position unstable on the lift creating a falling or tipping hazard.** If a wheel or the lift is in danger of tipping or falling, clear the area and seek assistance.

To lower the load:

1. Verify there are no obstructions below the wheel rollers.

⚠ WARNING Verify that it is safe to lower the lift's wheel rollers before doing so. Check that no personnel are nearby and that no tools, equipment, or other unsafe conditions are present below the lift rollers.

2. If the lift's battery is in the off condition, move the power switch to the on position.
3. Lower the wheel lift rollers by pressing the down button.
4. Move the battery power switch to the off position.
5. Remove the wheel from the lift, if required.
6. Unlock the casters and move the lift clear of the work area.



Maintenance

To properly maintain your lift and to provide years of proper service, it's important to periodically inspect and lubricate key areas.

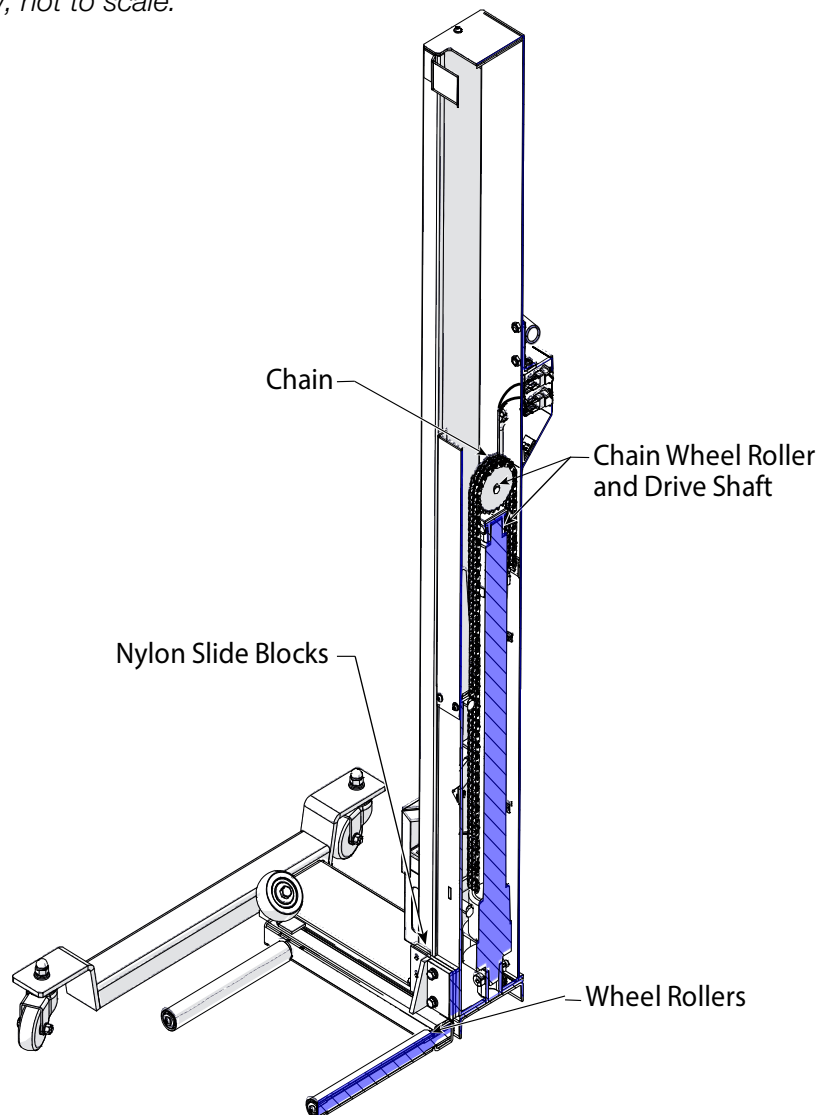
⚠ DANGER Always refer to the lubricant manufacturer's Material Safety Data Sheet (MSDS) for safe handling and disposal of chemicals.

Lubrication

There are several lubrication points on the lift. Place a small amount of lithium grease on each lubrication area and operate the lift up and down and rotate the rollers to ensure the lubricant is evenly distributed.

Component	Lubricant	Frequency
Lift Chain	#3 General Purpose Lithium Grease	Monthly
Chain Wheel Roller		Monthly
Nylon Slide Blocks		Every 2 months
Wheel Rollers		Every 2 months
Drive Shaft		Every 6 months

Section View, not to scale.



Battery Maintenance

Batteries do not last forever. Early battery failure may be due to a combination of aging, heavy use, and/or exposure to unfavorable temperature conditions.



DANGER Refer to **Lithium Ion Battery Safety, page 7, before servicing!**

How to extend the battery charge cycle life:

1. Avoid fully discharging the battery.
2. Charging between 20 to 80% prolongs the battery life.
3. Avoid high temperatures.
4. If storing the Lift for an extended period remove the battery and place it in a cool dry temperature controlled location. Temperature range for battery storage should be between +40° to +85°F (+4° to +40°C)
5. Charge the battery every 6 months to at least 50%.

Periodic Inspection

The Wheel Lift should be inspected prior to each use. Look for and remedy the following:

1. Worn or frayed wires. Repair/replace prior to use.
2. Loose fasteners. Tighten as required.
3. Damaged, worn, or missing parts. Replace as required.
4. Cracked welds or metal components. Replace as required.
5. Inspect the battery for swelling, cracks or leaks. Replace the battery as required.
6. Damaged/illegible labels. Replace as required.

Lift Storage

Always store the wheel lift in a well-protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The wheel lift must be cleaned of water, snow, sand, grit, or other foreign matter.

Verify the Lift has been thoroughly lubricated.

Disconnect and remove the battery from the lift.

Store the battery in a cool, dry, well-ventilated temperature controlled area. Temperature range for battery storage should be between +40° to +85°F (+4° to +40°C)

Charge the battery every 6 months to at least 50%.

Lift Disposal - End of Service Life

Once the Lift has reached the end of its service life it must be disposed of properly. Metal recyclers will be able to advise on methods and costs to remove the Lift and will *reuse* the materials, diverting them from landfills. The best option is to contact a metal recycling center and discuss the size and weight of the Lift to determine if the facility can deconstruct and recover the usable components and metals.

The battery and electric motor drive assembly must be disposed of in accordance with current national, state, and local regulations governing the disposal of electrical waste. These components **must not** be disposed of by dropping it into the trash or dumping it onto the street. The battery and electric motor may contain toxic components that are harmful to the environment. These components are required to be recycled or must be delivered to an electronic waste collection facility.

In all cases, the best approach is to find an appropriate facility and contact them — in advance — to determine any information required specific to their facility. If you are unable to find an appropriate facility, the website earth911.com has resources that may be of help.

Troubleshooting

 **WARNING** To prevent injury, perform maintenance, and repair procedures when the **RWS-200WL Wheel Lift** is free of a load.

 **CAUTION** Repair procedures must be accomplished by qualified personnel who are familiar with this equipment.

 **CAUTION** Avoid prolonged deep discharge of the battery. This will damage the battery!

Symptom	Possible Cause	Remedy
Wheel Lift does not function.	• Low or completely discharged battery. • Electric Lift Mechanism failure.	Charge or replace the battery. Replace the electric lift mechanism.
Battery will not charge	• Battery over discharged. • Damaged battery. • Low/High temperature protection will cause a shut-down. • Battery is left in an over-discharged state for an extended period without charging. Battery damaged. • Malfunction of the battery charger.	• Replace the battery. • Replace the battery. • Bring the battery to operating temperature slowly above 41°F for several hours and attempt the charging again. • Replace battery. • Replace the battery charger.
Slower than normal lifting speed is experienced.	Low or completely discharged battery.	Charge or replace the battery.
Short battery working time between charges.	Indicates the battery is about to fail.	Replace the battery.

Warnings of battery low charge or imminent failure:

1. The lowest battery LED is illuminated.
2. Slower than normal lifting speed is experienced.
3. Shortened battery work time. The battery requires charging more often.

If you continue to have problems with your equipment, take the equipment out of service, then contact your dealer, visit bendpak.com/support, email support@bendpak.com, or call **(800) 253-2363** follow the prompts to reach support.

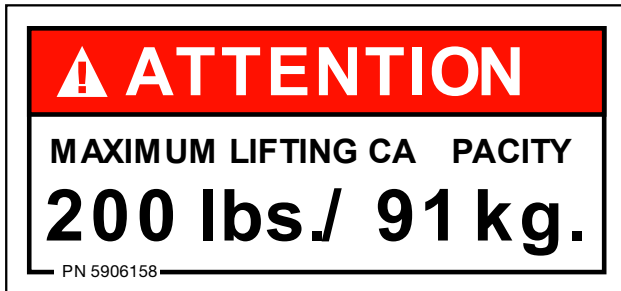
Labels

A



PN 5906175

B



PN 5906158

C



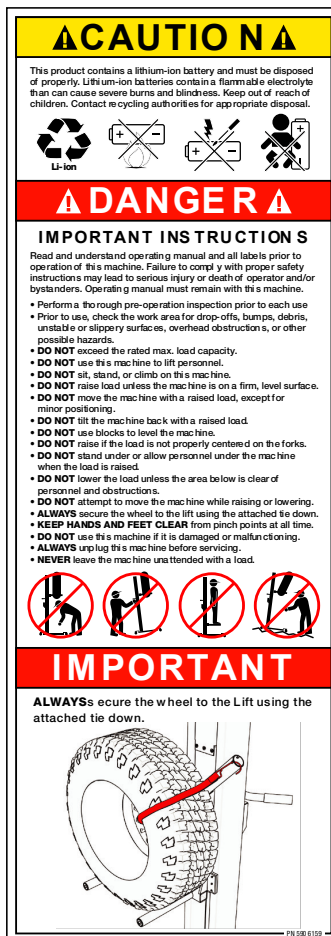
PN 5905179

D



PN 5905079

E



F



PN 5905775

G

⚠ CAUTION ⚠

ELECTRIC LINEAR ACTUATOR

- There are no user-serviceable components inside the actuator.
- The actuator is lubricated and sealed before leaving the factory. Under normal operating conditions, it remains lubricated for its entire service life.
- Only properly qualified personnel may perform mechanical and electrical installations of this product. Qualified personnel are those who are familiar with such work and have the necessary credentials for their tasks.
- Before working on this equipment, read the user's manual and any other available documentation thoroughly.
- Strictly adhere to the information provided in the manual and on the actuator's product label.
- **NEVER** exceed the specified performance limits of the linear actuator.
- **NEVER** work on the actuator or its installation while the power is on.
- **NEVER** unplug cables or connectors during operation or while power is applied.
- Immediately stop using the actuator if it appears faulty or damaged in any way. Notify the appropriate personnel so that corrective measures can be taken.
- **NEVER** open the actuator, as doing so will compromise its sealing and functionality.

PN 5906173

H

BendPak 30440 Agoura Road Agoura Hills, CA 91301 USA	
MODEL NO. / N° DE MODÈLE	SERIAL NO. / N° DE SÉRIE
DESCRIPTION	
VOLTAGE / TENSION	
UPC	DATE CODE
VER.	REV.
SCAN TO FIND LATEST MANUAL & PARTS LIST ⚠ DANGER! Disconnect Power Before Servicing Débrancher l'alimentation avant l'entretien	
WARRANTY VOID IF DATA PLATE IS REMOVED GARANTIE NULLE SANS LA PLAQUE D'INFORMATION	
MADE IN CHINA / FABRIQUÉ EN CHINE PN 5906152	

PN 5906152

I

⚠ CAUTION ⚠

This product contains a lithium-ion battery.

- **DO NOT** expose to water, rain, or snow.
- Damaged batteries pose a risk of electric shock, exposure to toxic, corrosive and flammable vapor and materials. **DO NOT TOUCH.**
- **DO NOT** leave in direct sunlight or locations that may exceed the batteries safe operating temperature.
- **DO NOT** use if swelling, bulging or leaking occurs.
- **DO NOT** use if hissing or popping sounds occur.
- **DO NOT** use if the battery is hot or smoke is visible.

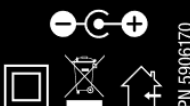
PN 5906160

PN 5906160

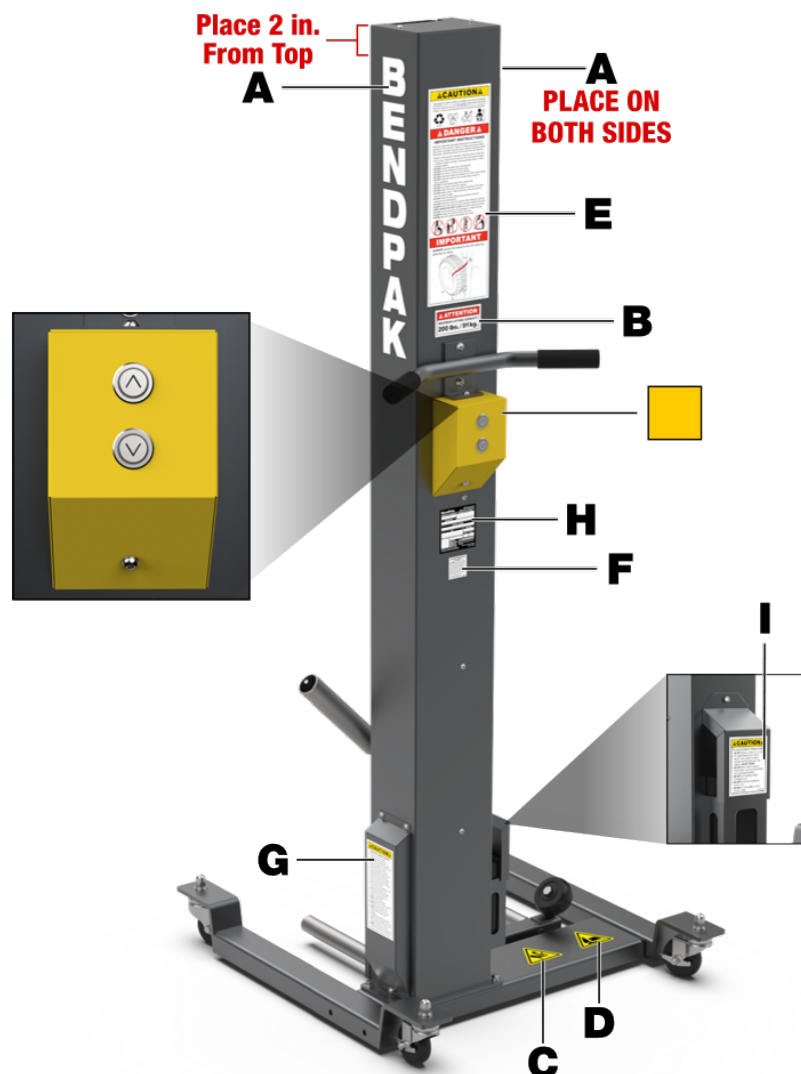
J

Input:
100 to 240VAC
50/60Hz. 0.5A

Output:
29.4VDC, 1A

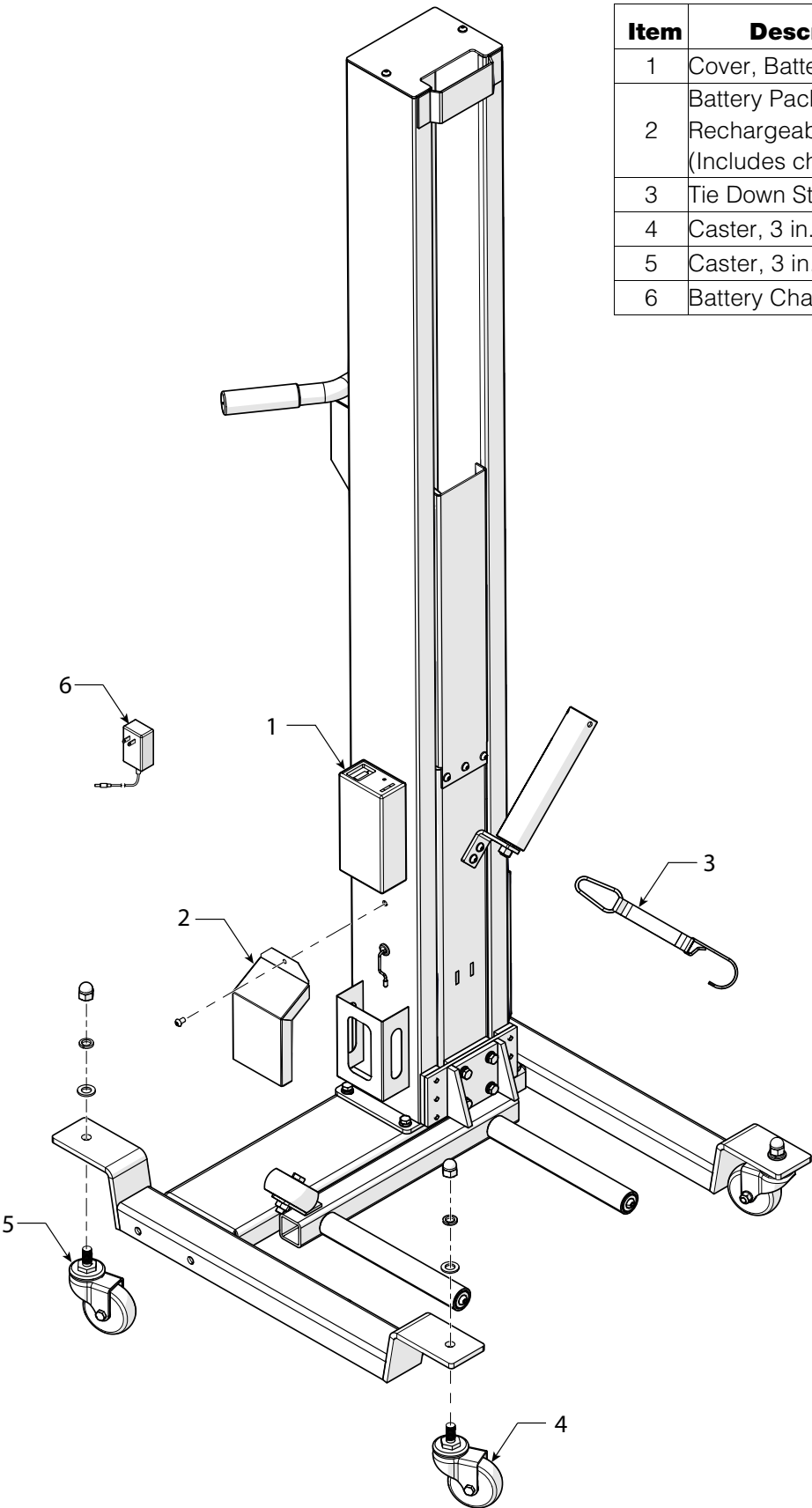


PN 5906170



Parts List

Item	Description	Qty.	Part Number
1	Cover, Battery	1	5325825
2	Battery Pack, 24VDC, Rechargeable (Includes charger)	1	5325826
3	Tie Down Strap	1	5325824
4	Caster, 3 in., Swivel	2	5325848
5	Caster, 3 in., Locking	2	5325877
6	Battery Charger	1	5325830



Maintenance Log

Maintenance Log

