

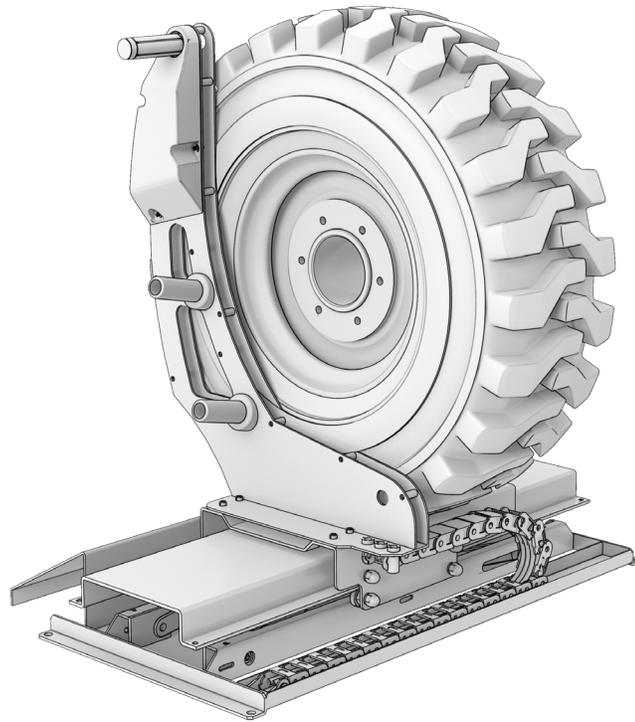
## Wheel Lift

# Installation and Operation Manual

Manual P/N 5900994 — Revision A — February 2026

Model:

- RWL175



*Original instructions  
in the English language*

## **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.** RWL175 Wheel Lift, *Installation and Operation Manual*, P/N 5900994, Revision A, released February 2026.

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**Limitations.** Every effort has been made to have 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:

[www.bendpak.com/wheel-service/](http://www.bendpak.com/wheel-service/)



**Warranty.** The BendPak warranty is a commitment to the quality and value of this product. Contact the nearest BendPak dealer or visit [www.bendpak.com/support/warranty](http://www.bendpak.com/support/warranty) for full warranty details.

**Safety.** The RWL175 Lift was designed and manufactured with safety in mind. Installer and operator safety depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the Lift without reading and understanding this manual and the labels on the unit. **Do not use the Lift unless it can be done so safely!**

**Owner Responsibility.** In order to maintain the 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 Operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until it is certain that 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.
- **Only use this product if it can be done so safely!**

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

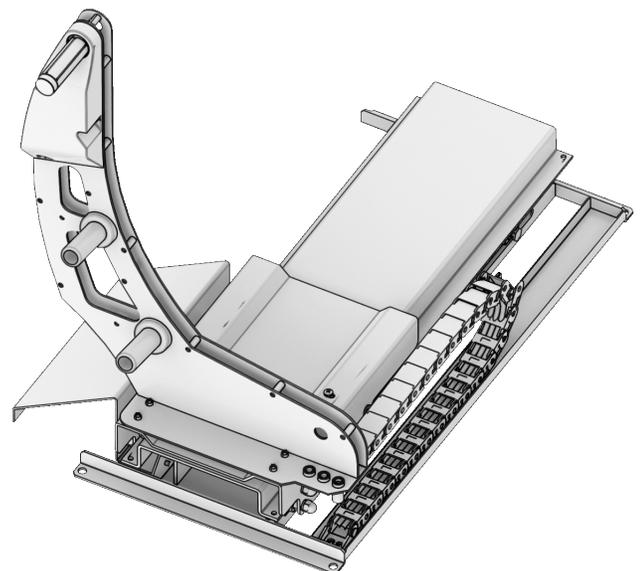
Model: \_\_\_\_\_

Serial: \_\_\_\_\_

Date Code: \_\_\_\_\_

Designed and engineered in Southern California, USA.

Manufactured in China.



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## Introduction

This manual describes the BendPak Ranger RWL175 Wheel Lift, a pneumatically powered Wheel Lift that provides fast, strain-free wheel lifting for a wide variety of wheels.

More information about BendPak Ranger products is available at [rangerproducts.com](http://rangerproducts.com).

***This manual is mandatory reading for all users*** of the RWL175, including anyone who sets up, operates, maintains, or repairs it.

** 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. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support and service for the Ranger RWL175 Wheel Lift is available from the distributor or by calling **BendPak Ranger at (805) 933-9970** (follow the prompts). When calling for parts replacement, please have the serial number and model number of the unit available.

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# Shipping Information

This equipment was carefully checked before shipping. Nevertheless, the shipment should be thoroughly inspected **before** signing to acknowledge that it has been received.

Signing the bill of lading tells the carrier that the items on the invoice were received in good condition. **Do not sign the bill of lading until after the shipment has been inspected.** 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 missing or damaged goods are discovered **after** receiving the shipment and the bill of lading has been signed, notify the carrier at once and request that the carrier perform an inspection. If the carrier will not perform an inspection, prepare a signed statement to the effect that the carrier has been notified (on a specific date), and that the carrier has failed to comply with the request.

It is difficult to collect for loss or damage after giving the carrier a signed bill of lading. If this happens, file a claim with the carrier promptly. Support the claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping to process the claim does not make us responsible for the collection of claims or replacement of lost or damaged materials.

## Safety Considerations

**Read this entire manual carefully before using the RWL175 Lift.** Do not install or operate the Lift until all installation and operating instructions and warnings are clearly understood. Do not allow anyone else to operate the Lift until they are familiar with all operating instructions and warnings.

 **WARNING** **California Proposition 65.** This product can expose installers and operators 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 Ranger's instructions. For more information, visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

### Important Safety Instructions—Save These Instructions

1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged air line or if the equipment has been dropped or damaged – until it has been examined by a qualified service person.
4. Adequate ventilation should be provided when working on operating internal combustion engines.
5. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
6. Use only as described in this manual. Use only manufacturer's recommended attachments.
7. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
8. This product is a Wheel Lift. **Use it only for its intended purpose.**
9. The product **must** only be operated by authorized, trained, and properly supervised personnel. Keep children and untrained personnel at least 6 ft. (2 m) away from the product when it is in use.

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10. Always follow all applicable local, state, and federal codes, rules, and regulations, including (but not limited to) OSHA standard 1910.177 (Servicing multi-piece and single piece rim wheels).
  11. All installers and operators **must** wear OSHA-approved (publication 3151) personal protective equipment at all times when installing, using, maintaining, or repairing the Tire Changer: leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection **are mandatory**.
  12. Do not use the product while tired or under the influence of drugs, alcohol, or medication.
  13. Do not make any modifications to the product; this voids the warranty and increases the chances of injury or property damage. **Do not modify any safety-related features in any way.**
  14. Make sure all Operators read and understand this *Installation and Operation Manual*. Keep the Manual near the device at all times.
  15. Make a visual inspection of the product every day. Do not use the product if any missing or damaged parts are found. Instead, take the unit out of service, then contact an authorized repair facility, the distributor, or **BendPak Ranger at (805) 933-9970**.
  16. BendPak Ranger recommends making a **thorough** inspection of the product once a month. Replace any damaged or severely worn parts, decals, or warning labels.



## **DANGER**

This Wheel Lift includes moving components such as the Pneumatic Cylinder, the Scissor Lift, and the sliding Wheel Platform. Keep hands, clothing and body parts clear of these components to avoid entanglement and injury. Be very aware of the potential for pinch-point injuries whenever using the Scissor Lift to move the Wheel Platform up or down: scissor lifts **are well named**.

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## Symbols

The following symbols are used in this manual:

-  **DANGER** Calls attention to a hazard that **will** result in death or injury.
-  **DANGER** Calls attention to an pneumatic hazard that **can** result in death or injury.
-  **DANGER** Calls attention to a pinch-point hazard that can 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 or property damage.
- NOTICE** Calls attention to a situation that, if not avoided, could result in product or property damage.
-  **Tip** Calls attention to information that can help use the Lift better.

## Liability Information

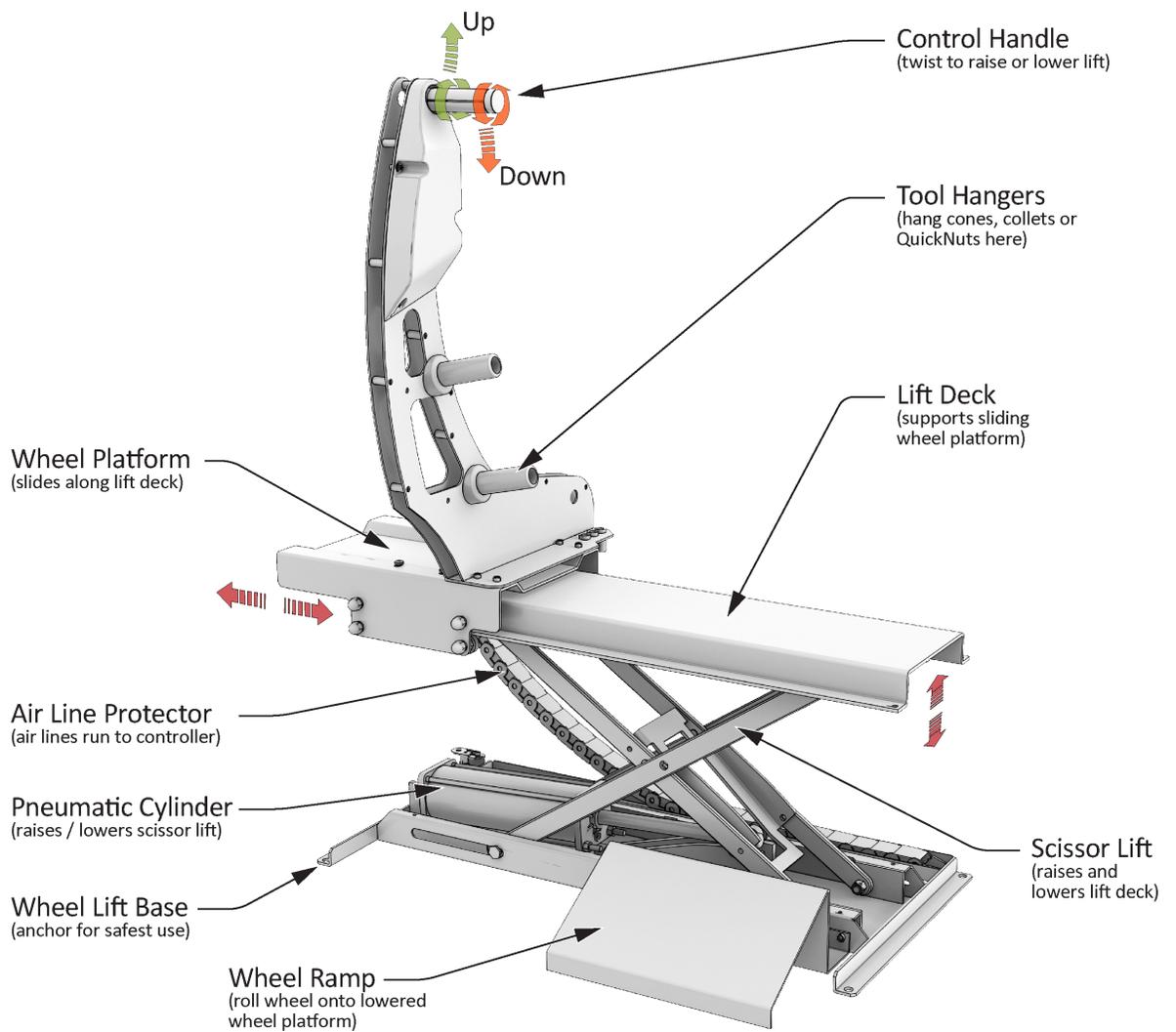
BendPak Ranger assumes **no** liability for damages resulting from:

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

# Components

## Lift components include:

1. **Control Handle.** Twist clockwise to raise Wheel Lift; twist counter-clockwise to lower.
2. **Tool Hangers.** For convenient storage of cones, collets, quick nuts or other balancing tools.
3. **Lift Deck.** Raised or lowered by the Scissor lift, it acts as the support for sliding Wheel Platform.
4. **Wheel Platform.** Slides to and fro along Lift Deck to position wheel at balancer spindle / arbor.
5. **Scissor Lift.** This robust mechanism raises and lowers the Lift Deck, Wheel Platform and wheel.
6. **Air Line Protector.** Flexible material in “tank tread” form; protects air lines from pinches or folds.
7. **Pneumatic Cylinder.** Raises and lowers the Scissor Lift; requires input air meeting specification.
8. **Wheel Lift Base.** Stable base platform to which all other components attach; should be anchored in place for safest use of the Wheel Lift.
9. **Wheel Ramp.** Roll the wheel up this ramp and then onto the Wheel Platform for smoothest use.



*Not To Scale.*

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### Other terms to understand include:

**Wheel.** A circular **metal** component that revolves on an axle and supports a tire. This term is frequently used to refer to a wheel and tire combination.

**Tire.** A circular *rubber* piece that surrounds and attaches to a wheel; more specifically, to the rim, the part of the wheel that directly touches the tire. Most tires are pneumatically inflated (filled with a gas, such as air, hydrogen, helium, or nitrogen) and made out of rubber (synthetic or natural).

**Rim.** The part of a wheel that directly attaches to a tire; almost always the outer portion of the wheel. Because modern wheels are frequently created from a single piece of metal, “Wheel” and “Rim” are sometimes used interchangeably.

**Balancer.** A device designed to help detect and correct an unbalanced weight distribution in a wheel. Imbalances can cause uneven rotation, which may lead to unwanted vibration. Balancers spin the wheel and tire rapidly around a spindle or arbor. Frequently used in tire shops and auto shops by automotive professionals.

**Cones & collets.** Used to help secure wheel rims to a balancer’s spindle or arbor, these are typically metal cones or flattened donut shapes (dual-slope collets) and when not in direct balancing use, may be stored nearby.

## Frequently Asked Questions

**Question:** What does a Wheel Lift do?

**Answer:** This wheel Lift is designed to help tire shop personnel lift a wheel and tire to be balanced from the ground up high enough to mount on a typical balancer’s spindle or arbor.

**Q:** Should this wheel Lift be used to lift people?

**A:** No. This device has been designed as a Wheel Lift, and should be used only for that purpose.

**Q:** Should this wheel Lift be used to lift auto shop equipment?

**A:** **No.** This product has been designed as a **Wheel Lift**, and should be used *only for that* purpose.

**Q:** Where is it best to put the Wheel Lift?

**A:** On a flat concrete floor directly adjacent to the balancer, so that when the Wheel Platform is at its furthest forward position, the wheel will be positioned correctly for easy, safe mounting on the balancer’s spindle or arbor.

**Q:** Why is it best to anchor the Wheel Lift to the concrete floor?

**A:** Anchoring provides the greatest security and safety against instability, helping decrease the chances of easily-prevented accidents or injuries.

**Q:** Why isn’t there a Power Cord for the Wheel Lift?

**A:** The Wheel Lift is a pneumatically-powered tool which requires no input electrical power at all. It **does** require compressed air with the specified pressure and air flow, and that input air should be run through an oiler / regulator prior to reaching the Wheel Lift.

**Q:** What Balancing Modes does the Lift have?

**A:** None. It is *not* a balancer – it is a Wheel Lift and *should be used only for that purpose*.

**Q:** What do I do if I have a problem with the Lift that I cannot solve?

**A:** Contact BendPak Ranger; we are here to help. Using a web browser, visit the **BendPak Support website**, click on **+ New support ticket**, and then fill in and submit a Support Ticket (make sure to click the **Submit** button at the bottom).

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# Specifications

Specifications subject to change at any time. All dimensions rounded to the nearest ¼ in. (6 mm).

<b>Model</b>	<b>RWL175</b>
Maximum Lifiable Weight:	175 lbs. (79 kg)
Lowered Height (Tire Platform):	5.5 in. (139 mm)
Maximum Lifting Height:	15.75 in. (400 mm)
Maximum Horizontal Travel:	22.75 in. (577 mm)
*Lifting Time:	4+ seconds
**Air Pressure:	94 – 116 psi (6.5 – 8 Bar)
Air Flow:	27.47 cfm (778 lpm)
Noise Volume:	≤ 75 dB
Product Dimensions:	32 x 22.5 x 38.5 in. (800 x 570 x 980 mm)
Shipping Weight:	117 lbs. (53 kg)

\*Lifting time is defined as the time required to raise Wheel Platform from Lowered Height to Maximum Lifting Height.

\*\*NOTE: input air requires oiler / regulator ahead of the Wheel Lift.

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# Installation Checklist

The following steps are required to install the Lift. They must be performed in the order shown.

- 1. Review the installation Safety Rules.
- 2. Plan for pneumatic work.
- 3. Make sure the necessary tools are on hand and ready.
- 4. Select the installation site.
- 5. Ensure there is adequate clearance on all sides of the Lift, but that it is also close enough to the balancer to be used correctly.
- 6. Unpack all Lift components.
- 7. Assemble any parts which were disassembled for shipping.
- 8. Verify that correct pressure and flow-rate compressed air which has an oiler / regulator in line (customer supplied) prior to the Wheel Lift is available near the location of the Wheel Lift. The regulator should also separate water from the compressed air, as is typically the case. An air shutoff valve (customer supplied) should also be installed ahead of this device so that it can be isolated from the compressed air input quickly.
- 9. Locate the lift the correct distance away from the balancer for proper use.
- 10. Double-check all measurements prior to any drilling or other non-recoverable actions.
- 11. Anchor the unit.
- 12. Connect to the compressed air source.
- 13. Test the Lift.

# Installation

This section describes how to install the Wheel Lift.

## Installation Safety Rules

***Pay attention at all times during installation.*** Use appropriate tools and equipment. Stay clear of moving parts. Keep hands and fingers away from pinch points.

Use caution when unpacking the Lift from its shipping container and setting it up. The Lift is heavy, and the weight is not evenly distributed. Dropping or knocking it over may cause equipment damage or personal injury.

**⚠ WARNING** Personnel ***must*** wear OSHA-approved (publication 3151) Personal Protective Equipment at all times when installing, using, maintaining, or repairing the Lift. Leather gloves, steel-toed work boots, ANSI-approved eye protection, back belts, and hearing protection ***are mandatory***.

Only allow experienced, trained technicians to install the Lift.

**⚠ CAUTION** Installing the Lift may be difficult for just one person. BendPak Ranger strongly recommends having two or more capable people work together to safely perform the installation.

## Tools & Supplies

Installation and setup of the Lift requires the following tools:

- Hex wrench set
- SAE and Metric wrench sets and an adjustable wrench
- Scissors, utility knife, or another cutting tool
- Thread sealant or Teflon tape for sealing thread connections on pneumatic fittings
- White Lithium Grease (or equivalent) and Silicone Bearing Lubricant



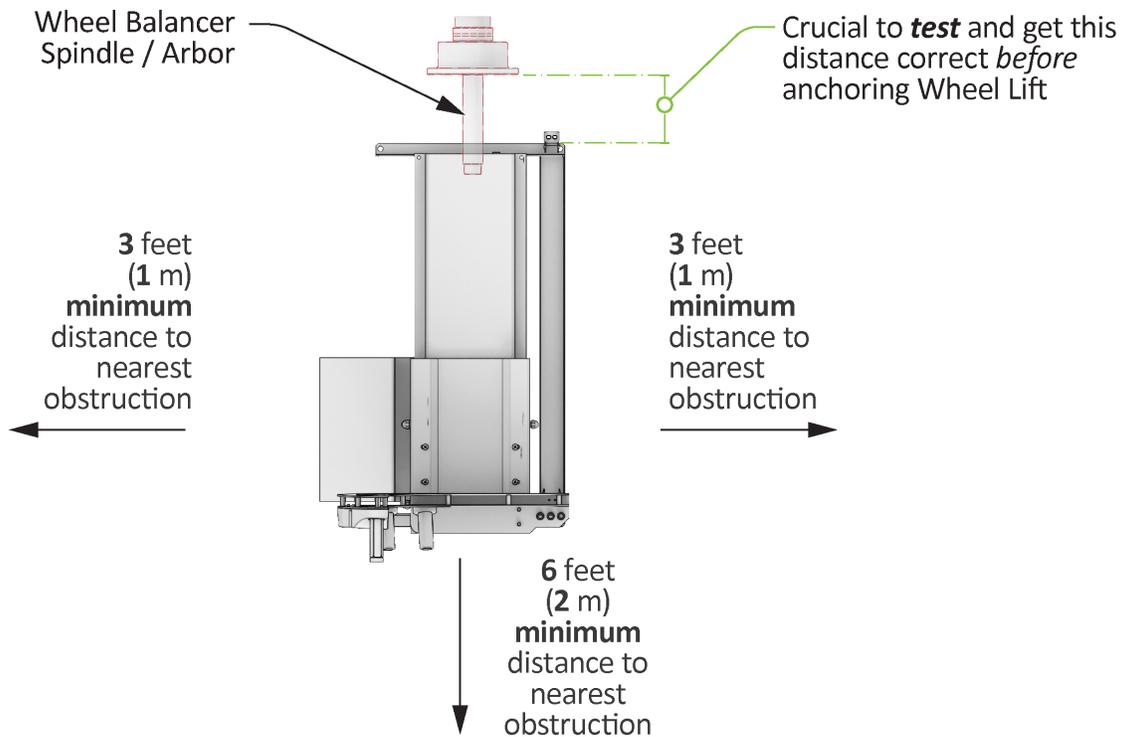
## Finding a Location

Keep in mind the following when deciding on a location:

- **Compressed air source.** The Lift needs to be near an appropriate compressed air source.
- **Floor.** The Lift requires a flat, concrete floor. If the floor is unstable or not flat, the Lift may not work correctly, and stability and safety may be compromised.
- **Accessibility.** Working space is needed around the Lift, to move the wheels to be balanced.
- **Danger.** Do not set up the Lift in a well-travelled area. Everyone except the operator should be at least 6 ft. (2 m) away from the Lift when it is in use.

## Clearances

For safe operation, the following clearances are required around the Lift.



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## Unpacking

Use caution when unpacking the Lift from its shipping container in order to avoid damaging the unit, misplacing any of the included components, or causing injury.

- ⚠ **CAUTION** Make sure to use an appropriate lifting device, such as a forklift or pallet jack, to move the Lift while it is still on its pallet. Make sure only personnel who are experienced with material handling procedures are allowed to move the Lift. The Lift is heavy, and the weight is not evenly distributed; dropping or knocking over the unit may cause equipment damage or personal injury.
  
- ⚠ **CAUTION** Ranger recommends having *at least two people* move the Lift as it is heavy. If it is dropped or falls, it could cause injuries and/or the Lift could be damaged.

We recommend unpacking the Lift in the area where it will be set up and used.

### To unpack the Lift:

1. Make sure all personnel involved are wearing OSHA-approved (publication 3151) Personal Protective Equipment: leather gloves, steel-toed work boots, ANSI-approved eye protection, back belts, and hearing protection.
2. Remove the carton by flipping down the metal tabs **at the bottom** and pulling it off the pallet and over the top of the Lift.  
Use care when removing the carton, as it is awkward.
3. Remove the plastic wrap, cardboard pieces, and other shipping components.
4. Remove any shipping bolts holding the Wheel Lift to the pallet.
5. With the pallet and Wheel Lift set in the desired position, move the Lift off the pallet.

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## Installing the Lift

1. Mount the sliding Wheel Platform onto the Lift Deck.
2. Connect incoming Compressed Air at the inlet at the Wheel Lift Base – this should be on the side facing the Balancer, and so there should be no looping air lines to become trip hazards.
  - a. This connection can be “inline” using a “T” connector, or “end of line”, as long as the required pressure and lubricated air specification is met.
3. All air line connections internal to the Wheel Lift are already in place as delivered.
4. Confirm that the outlet air line which runs down the control arm from the Control Handle is unobstructed and not pinched.
5. Test, mark and locate exactly where the Wheel Lift should be relative to the Balancer with which it will be used; at full extension of the sliding Wheel Platform, a typical wheel should be positioned onto the Balancer spindle or arbor so that a single operator may easily set up all needed compression springs, single or dual collets or cones, lug-centric pressure plates or 3-jaw grip-mounting plates to balance a wheel.
6. Only once exact location is certain and clearly marked, proceed to Anchor the Wheel Lift.

## Anchoring the Lift

The Lift has four holes for Anchor Bolts, which hold the Lift in place while in use.

**Important:** It is ***strongly recommended*** to bolt the Lift into place, as movement during a wheel lift can cause instability.

### To anchor the Lift:

1. Move the Lift to the desired location.

Remember to allow some space around the Lift. Refer to **Finding a Location** for additional information.

2. Using the holes in the base as guides, drill the holes for the 3/8 in. x 4 in. Anchor Bolts.



### Tip

**Drilling:** Drill straight down and do not let the drill wobble. Use a carbide bit (conforming to ANSI B212.15-1994).

The diameter of the drill bit must be the same as the diameter of the Anchor Bolt. If using a 3/8 in. diameter Anchor Bolt, for example, use a 3/8 in diameter drill bit.

3. Vacuum each hole clean.

BendPak Ranger recommends using a vacuum to get the hole thoroughly clean.

Do ***not*** ream the hole. Do ***not*** make the hole any wider than the drill bit made it.

4. Make sure the washer and nut are in place, then insert the Anchor Bolts into the hole.

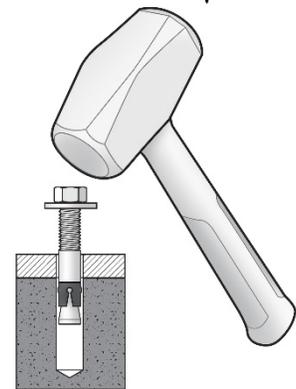
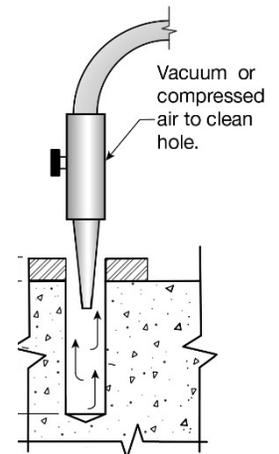
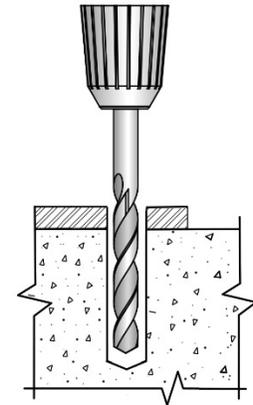
The Expansion Sleeve of the Anchor Bolt may prevent the Anchor Bolt from passing through the hole in the Base Plate; this is normal. Use a hammer or mallet to get the Expansion Sleeve through the Base Plate and into the hole.

**Even using a hammer or mallet, the Anchor Bolt should only go into the hole part of the way; this is normal. If the Anchor Bolt goes all the way in with little or no resistance, the hole is too wide.**

Once past the hole in the Base Plate, the Anchor Bolt eventually stops going down into the hole as the Expansion Sleeve contacts the sides of the hole; this is normal.

5. Hammer or mallet the Anchor Bolt the rest of the way down into the hole.

Stop when the washer is snug against the Base Plate.

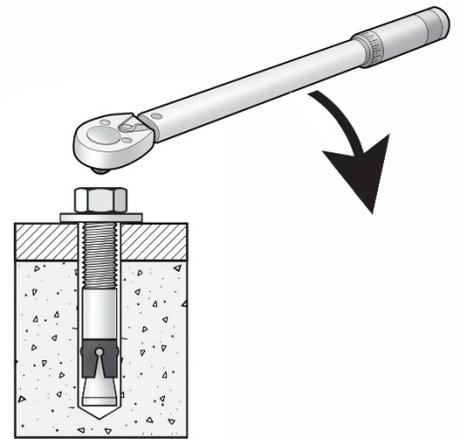


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6. Tighten each Nut (**clockwise**) until secure.

**Important:** Do **not** use an impact wrench to torque the Anchor Bolts.

Tightening the nut forces the wedge up, forcing out the Expansion Sleeve and pressing it tightly against the concrete.



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## Test the Lift

The Lift should be tested in order to ensure that it is ready for normal operation.

### **DANGER**



Scissor lift in motion: pay attention to the active pinch-point hazard that this represents.

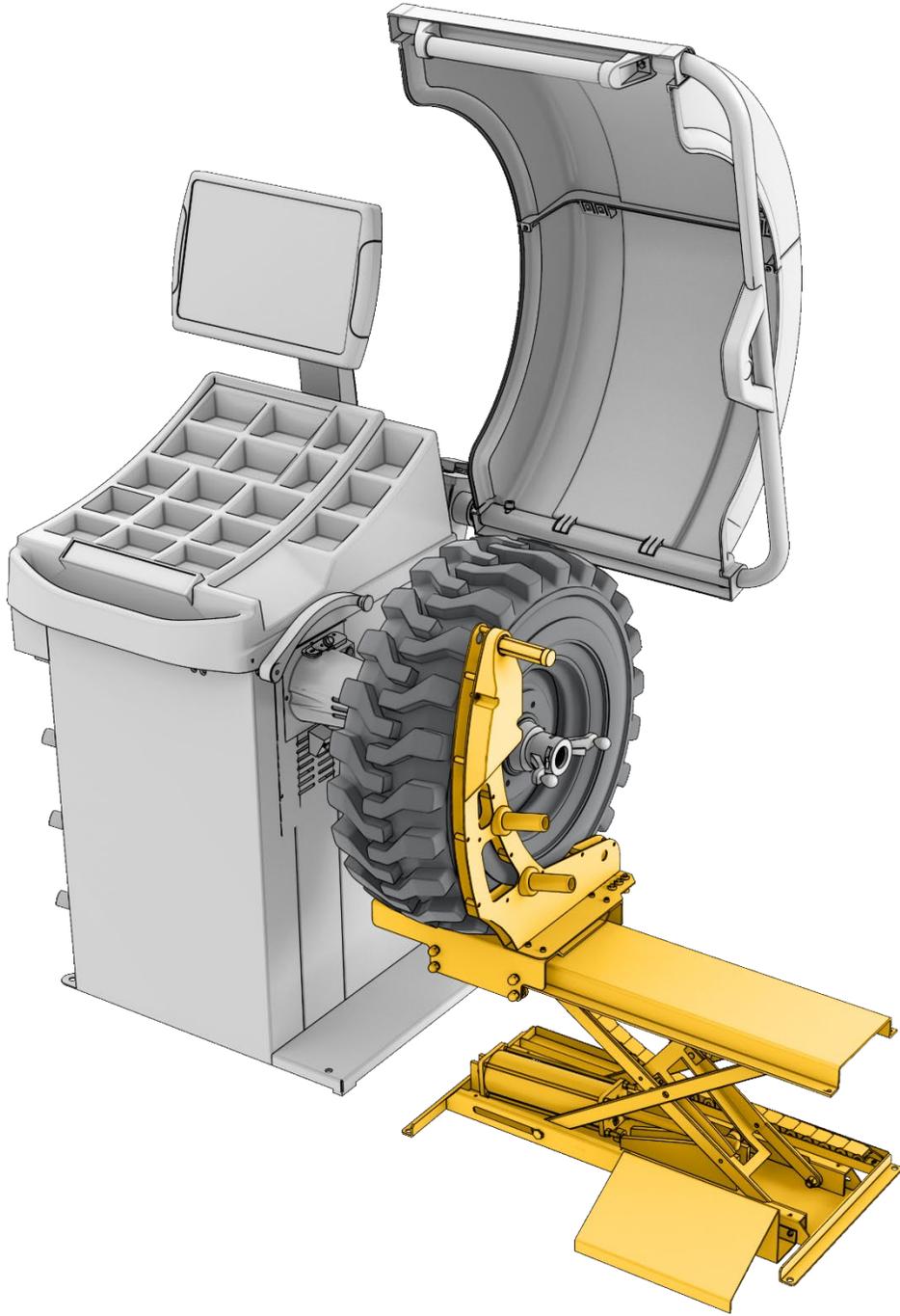
Keep all dangling items of clothing, body parts or other equipment clear of pinch hazards.

Scissor lifts can generate **extreme** shear forces where the frames slide past one another.

### **To test the Lift:**

1. Turn the air shutoff valve to the “on” position.
2. Roll a test wheel and tire whose weight is known to be well under the maximum lifting weight of the lift up the Wheel Ramp and onto the Wheel Lift.
3. Tilt the wheel gently back against the backplate, then while still stabilizing the wheel, gently twist the Wheel Lift Control Handle clockwise. The Wheel Lift should raise.
4. Once the wheel and tire are at the correct height, slide the Wheel Platform to mount the wheel onto the balancer’s spindle or arbor.
5. Once this is done, slide the Wheel Platform back to the rearmost position.
6. Still stabilizing the wheel against the backplate, gently twist the Wheel Lift Control Handle counter-clockwise. The Wheel Lift should lower.
7. Align the Wheel Platform and wheel with the Wheel Ramp; roll the wheel off.
8. The Lift has passed the test.

To get used to the Lift, we recommend having all potential operators lift *multiple **practice*** wheels before working with customer wheels.



# Operation

This section describes how to use the Lift.

- ⚠ DANGER** Standing adjacent to a Wheel Lift is a serious endeavor with risk of injury. Only trained, authorized, supervised personnel should be within 6 ft. (2 m) of the Lift while it is in use.

## Usage Precautions

Keep the following in mind while using the Lift:

- **Make sure** all operators receive specific training in the Wheel Lift's use **before** they are allowed to use the Lift. All others, including children and untrained personnel, **must** be kept at least 6 ft. (2 m) away from the Lift while it is in use.
- **Do not** use the Wheel Lift while tired, or under the influence of drugs, alcohol, or medication.
- Make a visual inspection of the Wheel Lift **before each use**. Do not operate the Wheel Lift if any issues are found. Instead, take the unit out of service and contact the dealer by visiting [www.bendpak.com/support/](http://www.bendpak.com/support/), emailing [support@bendpak.com](mailto:support@bendpak.com), or by calling **(805) 933-9970** (follow the prompts).
- Keep the work area around the Wheel Lift **clean and well lit**. Dirty, cluttered, and dark work areas increase the chance of accidents.
- **Do not** modify the Wheel Lift in any way unless explicitly instructed to do so by BendPak Ranger Support.
- Personnel **must** wear OSHA-approved Personal Protective Equipment at all times when installing, using, maintaining, or repairing the Wheel Lift. Leather gloves, steel-toed work boots, ANSI-approved eye protection, back belts, and hearing protection **are all mandatory**.

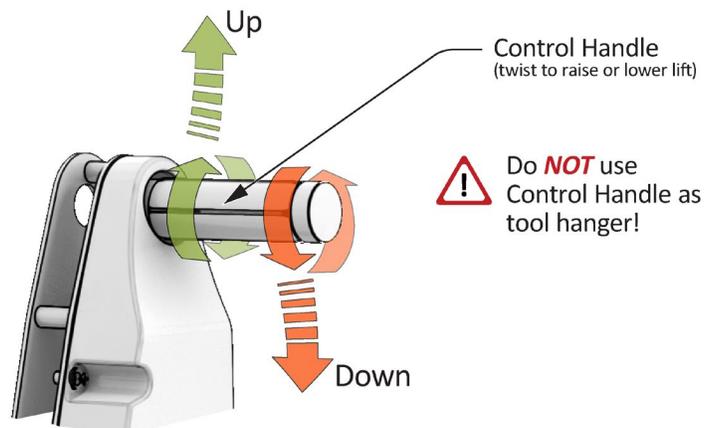
- **⚠ WARNING** Always wear ANSI-approved eye protection. Although rare, an accident could cause significant injury to eyes.

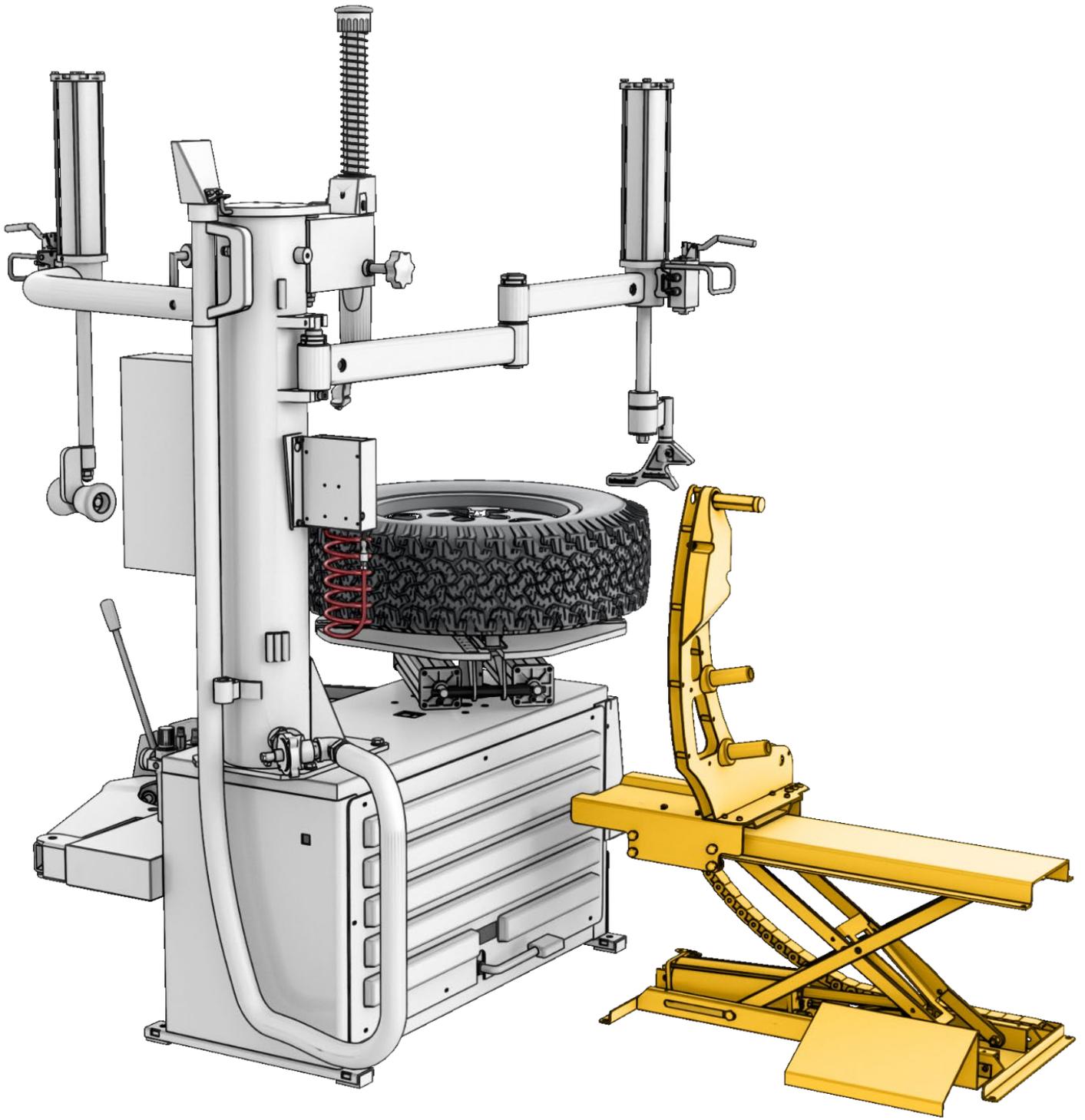
- **Clean** the Wheel Lift according to the instructions in **Maintenance**.
- **Study** the entire *Installation and Operation Manual* **before** using the Lift.

## The Control Handle

The Control Handle lets the operator control the flow of pressurized air to and from the Pneumatic Cylinder which drives the Scissor Lift, and so controls the raising and lowering of the Tire Platform.

We recommend the Control Handle be treated as any machine control should be: with due care, caution and avoiding excessive force or loading; it should never be used as a tool hanger or hook – those are provided below the Control Handle.





# Maintenance

Make sure Lift is maintained on a regular basis.

## DANGER



Isolate then disconnect the Lift from its compressed air source **before performing any maintenance** and take whatever steps are necessary to make sure the Lift cannot be reconnected to the compressed air source until maintenance is completed. Compressed air can cause serious injuries if released unexpectedly or in an uncontrolled manner.

### To maintain Wheel Lift:

**Daily:** Make sure the unit is clean and dry. It should be cleaned after each use.

**Weekly:** Verify that Oiler / Regulator is functioning correctly, and that water is below 25%. Confirm all air lines are intact and well-connected. Lubricate all bearings with silicone spray bearing lubricant. Lubricate all pivot points with white Lithium Grease or similar.

**Monthly:** Check all components to make sure they are in good operating condition. If a component is damaged or **not** working correctly, take the unit out of service and refer to **Troubleshooting** for more information. Verify correct oil feed rate. Tighten all fasteners. Confirm compressed air shutoff functions correctly. Make sure all Anchor Bolts are tightened and secure.

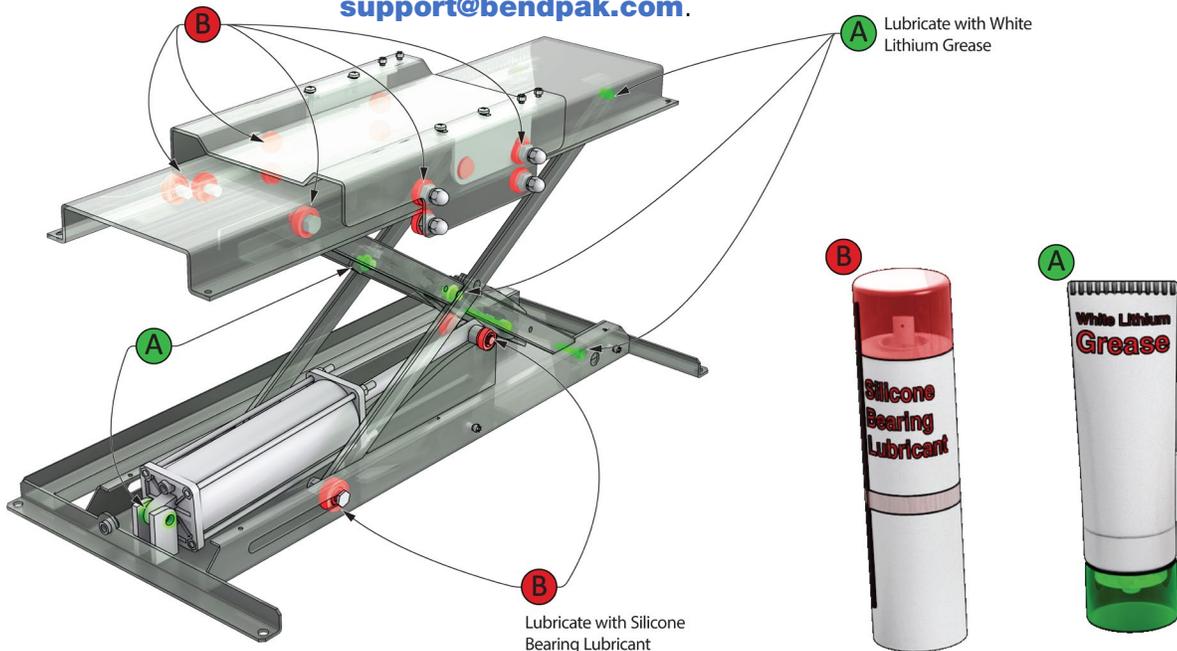
Lubricate all bearings with silicone spray bearing lubricant. Lubricate all pivot points with white Lithium Grease or similar.

**Every three months:** Check the bolts on the components attached to the rear of the unit to make sure they are tight and secure. Lubricate all bearings and friction points.

**Yearly:** Take the unit out of service, isolate from compressed air using compressed air shutoff, disconnect the Wheel Lift from its compressed air source, and then thoroughly check and clean all components.

## ⚠ WARNING

Do not operate the Lift if any issues are found. Instead, take the unit out of service and contact the dealer, visit [www.bendpak.com/support/](http://www.bendpak.com/support/), call **BendPak Ranger at (805) 933-9970** (follow the prompts), or email [support@bendpak.com](mailto:support@bendpak.com).



*Not To Scale. Some components omitted or ghosted for clarity: Lubricate highlighted spots.*

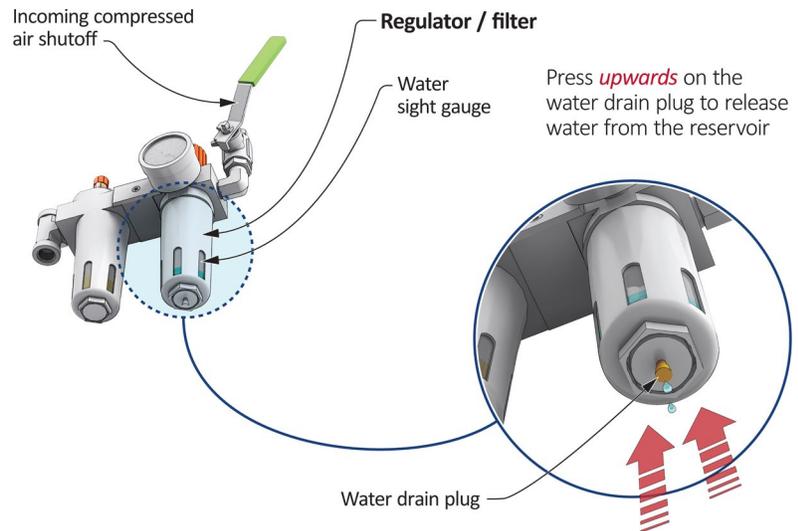
## Regulator / Filter Reservoir Maintenance

### Draining water from the Regulator/Filter Reservoir:

1. Check the Water Sight Gauge to see how much water is currently in the Reservoir.

**CAUTION** If the Reservoir is one quarter ( $\geq 25\%$ ) or more filled with water, **drain it**.

2. Close the compressed air **Shutoff Valve**; disconnect the compressed air source at the Air **In** connector. Bleed downstream system pressure as needed.
3. Press upwards on the Water Drain Plug at the bottom of the Reservoir. Water will drain out.
4. Release the Water Drain Plug and re-connect the air source.

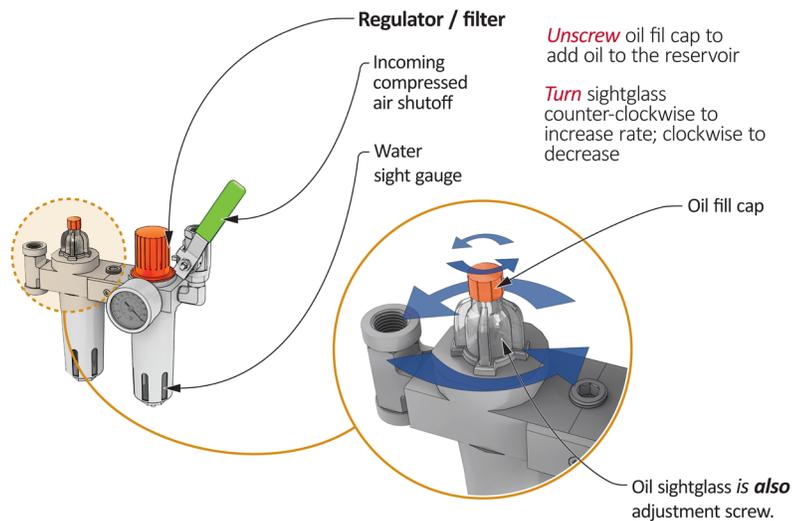


### Adding pneumatic oil to the Oiler/Lubricator:

5. Check the Oil Sight Gauge to see how much pneumatic oil is currently in the reservoir.

**CAUTION** If the reservoir is less than one half ( $\leq 50\%$ ) filled with pneumatic oil, **add oil to it**.

6. Shut the compressed air **Shutoff Valve**; disconnect the compressed air source at the Air **In** connector. Bleed downstream system pressure as needed.
7. Turn the oil reservoir Oil Fill Cap counter-clockwise and remove.
8. Add SAE 10W Air Tool Oil or generic pneumatic oil to the reservoir.
9. Put the oil reservoir back in place, turning it clockwise until tight, then re-connect the air source.



### To check the oil feed rate on the Oiler/Lubricator:

1. Use a device that uses lubricated air.
2. Watch the Sight Glass to see how much pneumatic oil comes out. Your goal is 1 or 2 drops per minute.
3. The rate may vary slightly based on the tool manufacturer's recommendations.
4. If you are not getting 1 or 2 drops, turn the sightglass itself counterclockwise (the sightglass **is** the adjustment knob) to increase the rate or clockwise to decrease the rate. Use the device again to check the rate.

When you are getting 1 or 2 drops, **stop**.

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# Troubleshooting

## DANGER



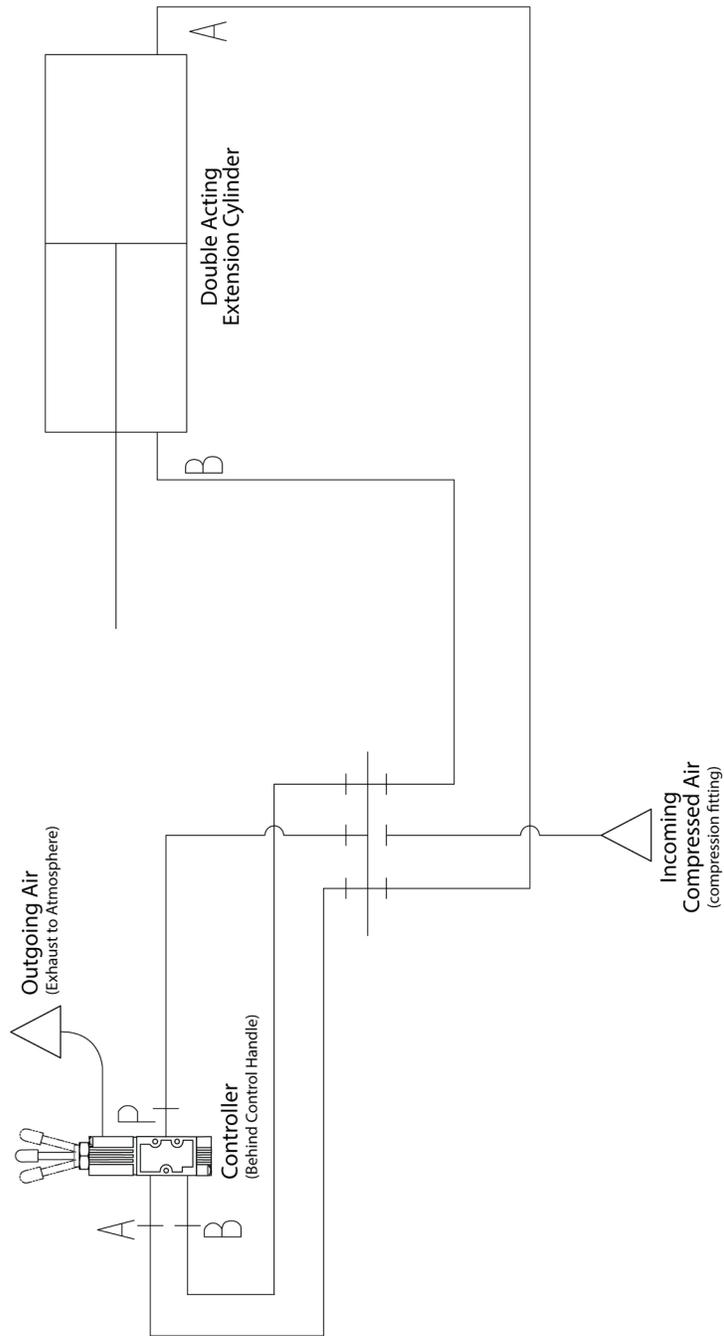
Isolate then disconnect the Lift from its compressed air source **before performing any maintenance** and take whatever steps are necessary to make sure the Lift cannot be reconnected to the compressed air source until maintenance is completed. Compressed air can cause serious injuries if released unexpectedly or in an uncontrolled manner.

Perform the following checks if experiencing any **lifting** problems:

- Confirm incoming compressed air source is delivering adequate pressure to operate the Wheel Lift (see **Specifications** for more information).
- Confirm all air lines are properly connected, have no cracks or pinholes, and are not leaking. If any air line seems compromised, replace it immediately.
- Confirm integrity of all seals on the pneumatic cylinder; if there is leaking or other faulty condition, replace the pneumatic cylinder.
- If Wheel Lift seems stuck in Up position and will not lower, confirm air outlet line (exhaust) is clear, unobstructed and unconstricted throughout its run.
- If vent valve is frequently leaking:
  - Seal air lines on either side of cylinder, place weight on Wheel Platform. If air valve **leaks**, replace it.
  - Seal air lines on either side of cylinder, place weight on Wheel Platform. If air valve **does not** leak, **but** Wheel Platform **lowers**, replace cylinder internal seal.

If problems with the Wheel Lift continue, visit [www.bendpak.com/support/](http://www.bendpak.com/support/), call **BendPak Ranger at (805) 933-9970** (follow the prompts), or email [support@bendpak.com](mailto:support@bendpak.com).

# Pneumatic Schematic



# Labels

PN 5905350



**Warning\_Pinch-Points\_Label\_FRE-ENG-5905350**  
Trim: 15" W x 1.5" H

PN 5930609



**Black & Yellow Hazard Roll:**  
Trim: 10" W x 2" H

PN 5905586



**175lb\_Max\_Capacity\_Label-5905586**  
Trim: 3.75" W x 1.75" H

PN 5906137



**Ranger\_Die-Cut\_Decal\_5.7x1.5\_5906137**  
Trim: 5.7"W x 1.5"H

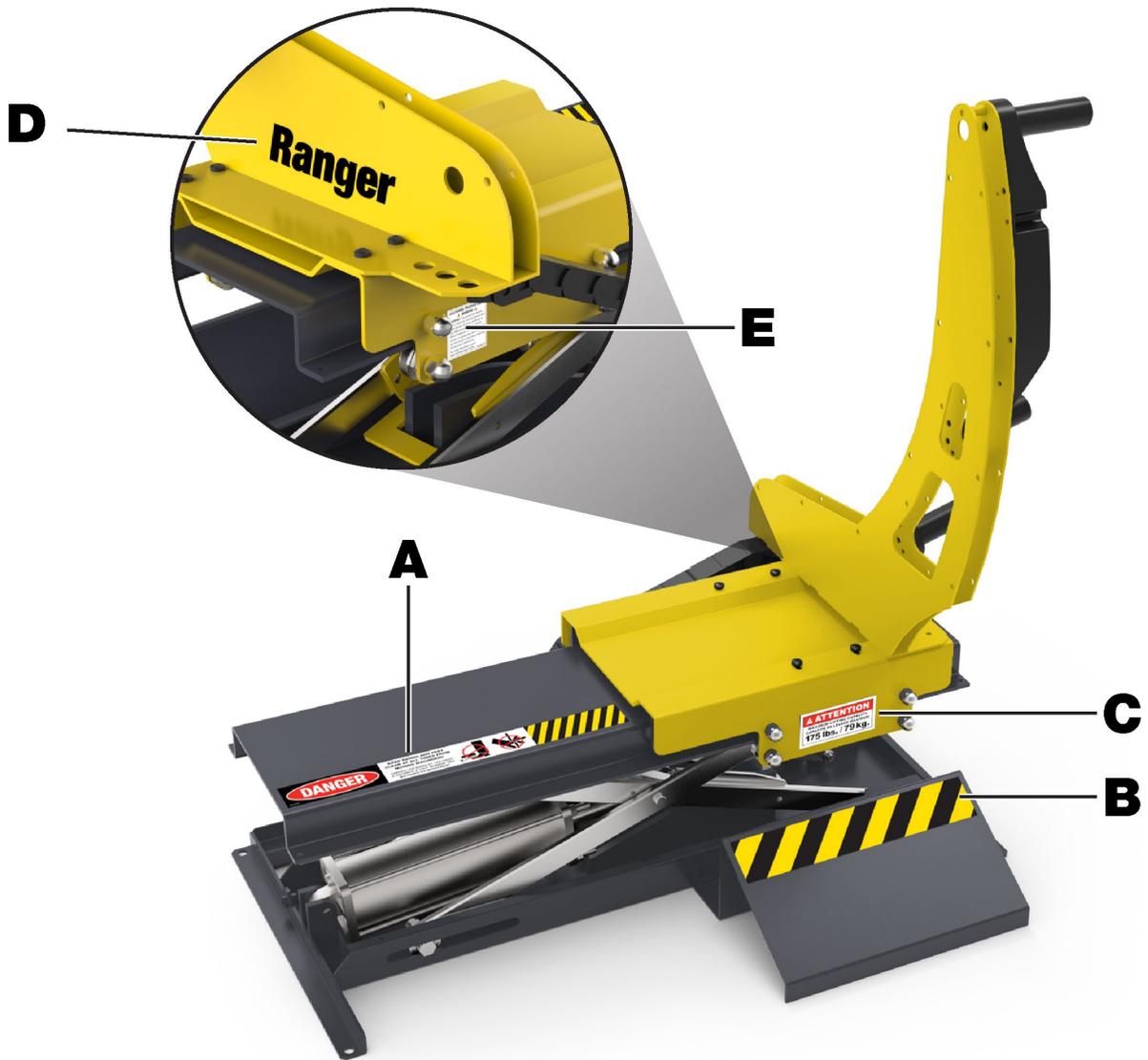
**NOTE: LETTERING DIE-CUT  
IN BLACK VINYL**

PN 5905775



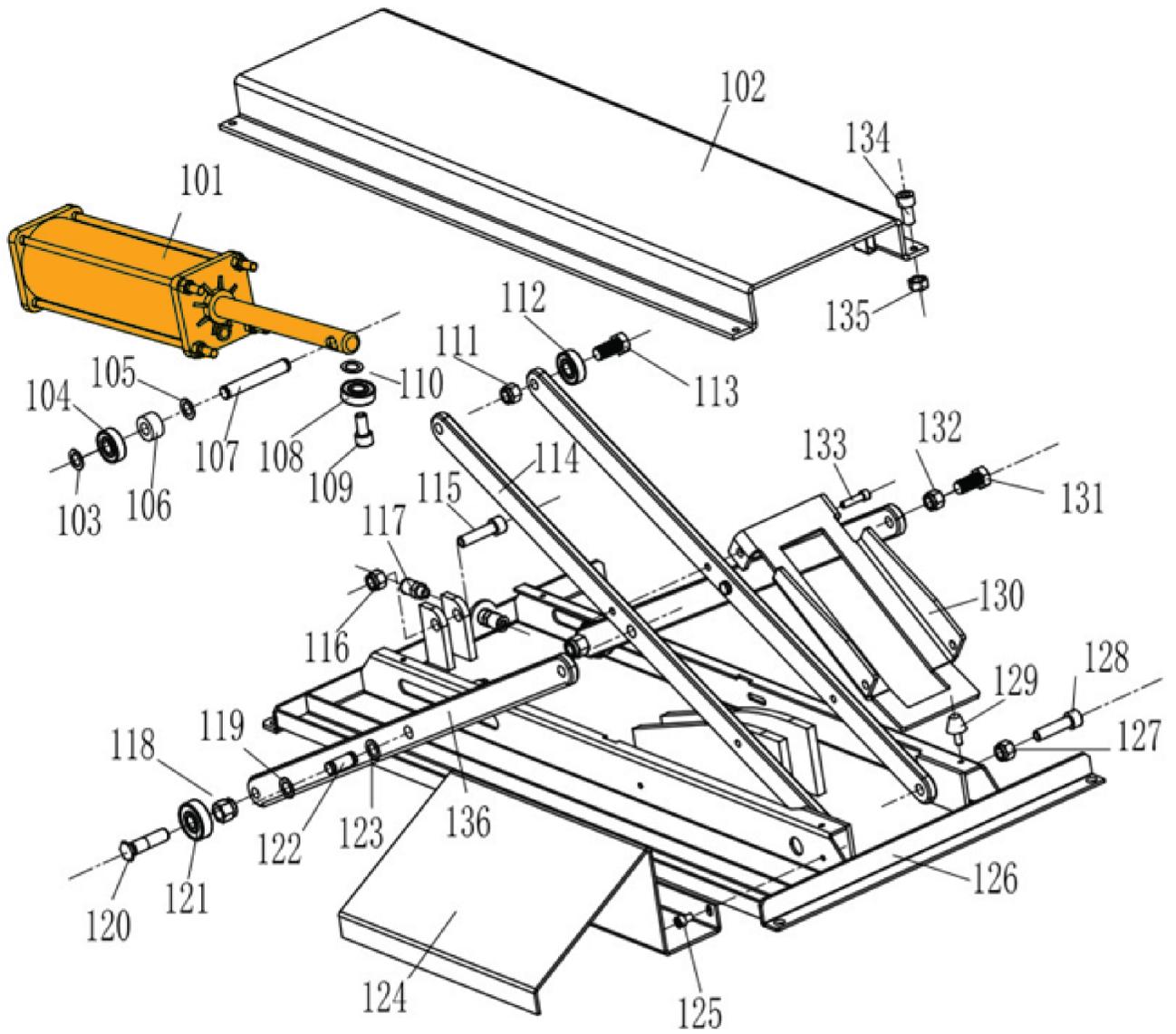
**Prop\_65\_Label-5905775**  
**\_REV-01**

Trim: 1.5" W x 1.5" H



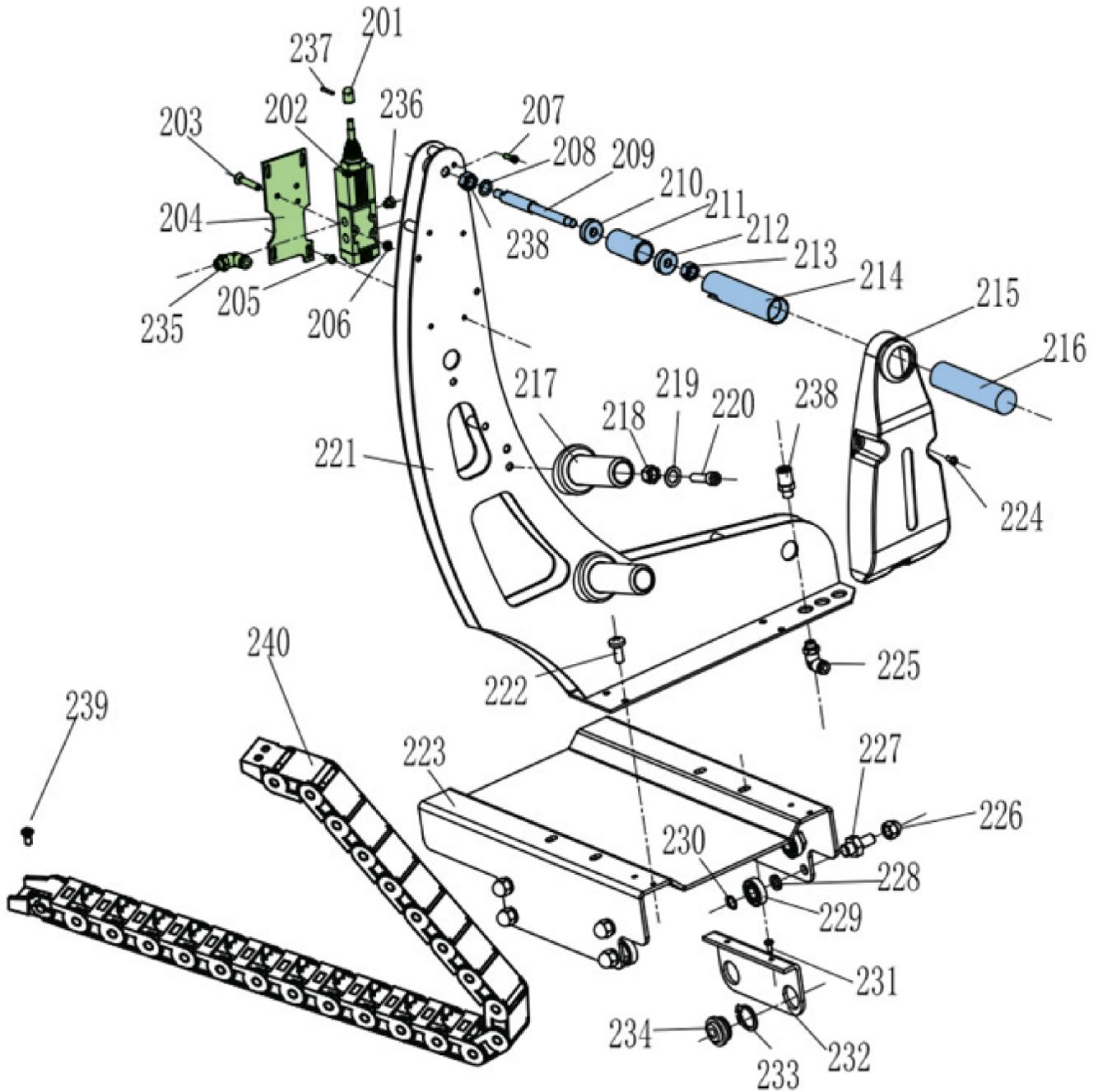
# Parts

## Lifting Platform



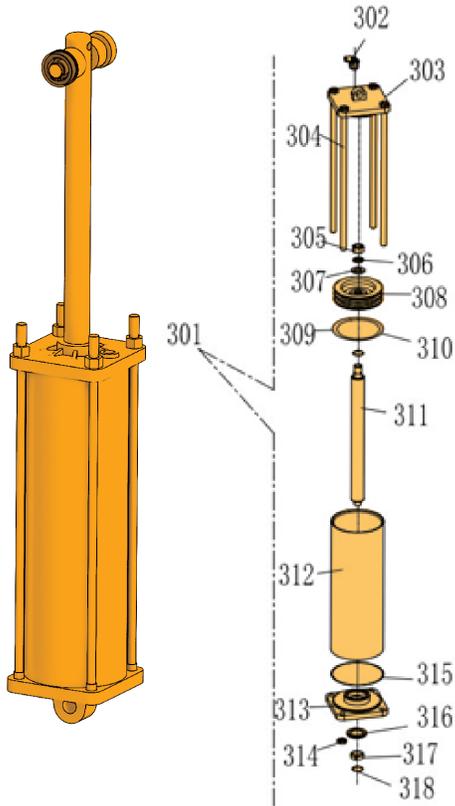
BendPak P/N	ID	Description
5328781	101	Small Cylinder Assembly [See Pg 29]
	102	Upper Plate Welded Assembly
	103	Snap Ring; 12
	104	Bearing; 6201
	105	Washer Ø12
	106	Bearing
	107	Lifting Shaft
	108	Bearing; 609
	109	SHCS M8X16
	110	Washer Ø8
	111	Nut; M12
	112	Bearing; 6021
	113	Threaded Hexagon Head Bolt; M12X40
	114	Support Arm
	115	SHCS M12X50
	116	Nut; M12
	117	Lock Nut Elbow Ø8
	118	Nut; M12
	119	Snap Ring; 12
	120	Small Shaft
	121	Bearing; 6301
	122	Central Shaft
	123	Central Shaft Pad
	124	Approach Ramp
	125	SHCS M6X8
	126	Base Plate Weldment
	127	Nut; M10
	128	SHCS M10X35
	129	Buffer Pad
	130	Top Plate
	131	Threaded Hexagon Head Bolt; M12X30
	132	Nut; M12
	133	SHCS M8X16
	134	SHCS M6X8
	135	Hexagon Nut M6
	136	Support Arm 2

# Wheel Platform



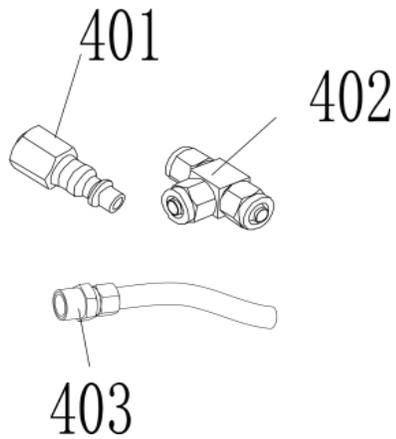
BendPak #	ID	Description
	215	Handle Valve Cover
	217	Cone Hanger
	218	Hexagon Nut M6
	219	Washer Ø6
	220	SHCS M6X20
	221	Handle Bracket Welding Assembly
	222	SHCS M6X20
	223	Small Cart Plate
	224	Cross Recessed Countersunk Head Screw M5x1
	225	Adjustable Locknut Elbow;φ6
	226	Acorn Nut;M10
	227	Axle
	228	Spring Washer; Ø10
	229	Bearing; 6201
	230	Snap ring; Ø12
	231	Hexagon Socket Button Head Screw; M6X8
	232	Bent Plate
	233	Snap ring; Ø12
	234	Universal Ball
	239	Cross Recessed Countersunk Head Screw M4x12
	240	Nylon Cable Chain
<b>5328783 Air Handle Control Assembly</b>		
BendPak #	ID	Description
	201	Air Handle Control Valve
	202	Manual Control Valve
	203	Cross Recessed Countersunk Head Screw M4x35
	204	Pneumatic Valve Plate
	205	Cross Recessed Countersunk Head Screw M4x8
	206	Silencer
	207	SHCS M4X10
	235	Adjustable Locknut Elbow; Ø6
	236	Silencer
	237	Cotter Pin 2.5
<b>5328782 Handle Assembly</b>		
BendPak #	ID	Description
	208	Washer Ø8
	209	The Central Shaft of Handle
	210	Bearing
	211	Spacer
	212	Bearing
	213	Nut; M8
	214	Handle
	216	Handle Grip of Trolley
	238	Through-type Lock Nut Ø6

## Pneumatic Cylinder Assembly



5328781 Pneumatic Cylinder Assembly		
BendPak #	ID	Description
	301	Small Cylinder Assembly
	302	Quick-connect Elbow Fitting
	303	Small Cylinder Rear Cover
	304	Double-Ended Connecting Bolt
	305	Type 1 Hexagon Nut;M10
	306	Spring Washer Ø10
	307	Washer Ø10
	308	Aluminum Piston
	309	O-Ring Ø15X5.7
	310	O-Ring Ø16X2.4
	311	Piston Rod
	312	Small Cylinder Block
	313	Small Cylinder Front Cover
	314	Type 1 Hexagon Nut;M8
	315	O-Ring Ø75X2.65
	316	Y-Ring
	317	Guide Strip
	318	O-Ring Ø25X3.1

## Fittings



BendPak #	ID	Description
	401	Quick Coupler (US)
5327548	402	Lock Nut Tee Ø8-Ø8-Ø8
	403	Locknut straight Ø8







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***Ranger***<sup>®</sup>

30440 Agoura Rd.  
Agoura Hills, CA 91301 USA  
(800) 253-2363  
[rangerproducts.com](http://rangerproducts.com)