

ReechCraft.  
***PowerPole***

**OPERATOR'S SAFETY MANUAL**



It is important that you read, understand, and obey the contents of this manual. Keep it with the machine at all times.

The purpose of this manual is to provide safe and proper operating procedures for anyone utilizing this machine.

Because we at ReechCraft, Inc. are always working to improve our products, processes, and procedures, we reserve the right to make changes without prior notice. Please contact ReechCraft for updated information.

## **SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS**



This is the Safety Alert Symbol. It is used throughout this manual and on the machine to alert you to potential personal injury hazards. Understand and obey all safety messages that correspond with this symbol to avoid possible injury or death.



**INDICATES AN IMMINENTLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, WILL RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE A RED BACKGROUND.**



**INDICATES A POTENTIALLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, COULD RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE AN ORANGE BACKGROUND.**



**INDICATES A POTENTIALLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT MAY ALSO ALERT AGAINST UNSAFE PRACTICES. THIS DECAL WILL HAVE A YELLOW BACKGROUND.**

## **⚠ WARNING**

**THIS PRODUCT MUST COMPLY WITH ALL SAFETY-RELATED BULLETINS. CONTACT REECHCRAFT, INC. OR THE LOCAL AUTHORIZED REECHCRAFT REPRESENTATIVE FOR INFORMATION REGARDING SAFETY-RELATED BULLETINS THAT MAY HAVE BEEN ISSUED FOR THIS PRODUCT.**

## **⚠ NOTICE**

**REEHCRAFT, INC. SENDS SAFETY-RELATED BULLETINS TO THE OWNER ON RECORD OF THIS MACHINE. CONTACT REECHCRAFT TO ENSURE THAT THE CURRENT OWNER RECORDS ARE UPDATED AND ACCURATE.**

**REEHCRAFT MUST BE NOTIFIED IMMEDIATELY IN ALL INSTANCES WHERE OUR PRODUCTS HAVE BEEN INVOLVED IN AN ACCIDENT INVOLVING BODILY INJURY OR DEATH OF PERSONNEL, OR WHERE SUBSTANTIAL PERSONAL PROPERTY DAMAGE OR DAMAGE TO THE REECHCRAFT PRODUCT HAS OCCURRED.**

### **Contact Us Regarding:**

- Accident Reporting
- Product Safety Publications
- Current Owner Updates
- Product Safety Questions
- Standards and Regulations Compliance Information
- Questions Regarding Special Applications
- Questions Regarding Product Modifications

### **Contact Information:**

#### **Technical Safety and Engineering Department**

845 34th St N, Fargo, ND 58102  
customer.service@reechcraft.com

**In USA:** 888-600-6160 • **Outside USA:** 701-280-5900

## **SAFETY GUIDELINES**

1. Safety comes first. To help ensure safety, always have a competent person assemble, erect, operate, transport, store, and maintain this product. A competent person is defined as one who has the:
  - a. Ability to identify any present or foreseeable hazards.
  - b. Authority to take immediate corrective action.
  - c. Knowledge and training to assemble, erect, operate, transport, store, and maintain the system.
  - d. Operator's Safety Manual available at all times.
  - e. Field experience to correctly assemble, erect, operate, transport, store, and maintain the system.
2. Be sure to follow all of the guidelines set forth in the Operator's Safety Manual for proper assembly, erection, operation, transport, storage, and maintenance.
3. Workers exposed to hazards are required to wear personal protective equipment (PPE) such as hard hats, eyewear, gloves, and safety boots as prescribed by federal, state, and local authorities.
4. Make a layout plan for how your mast climbing work platform will be used for the specific task. Examine the structure and ground conditions where the system will be placed. On long walls, use multiple systems to allow for more flexibility in access. Always place masts in a position that provides a stable base and suitable connection to the structure.
5. Establish the distance of the platform to the wall or structure, taking into consideration wall offsets, curves, balconies, architectural features, trees, wires, etc.
6. Be aware of and refer to federal, state, and local guidelines for proper distance away from non-system electrical lines.
7. Be sure the ground will support the bearing forces of the system in accordance with this Operator's Safety Manual.
8. Always carry out maintenance and inspection as detailed in this manual to help ensure system safety and efficiency. Be sure to manage all jobsite inventory and ensure proper inspection and maintenance has been conducted on all system components prior to use.
9. Never make modifications to the system. Always use factory manufactured parts on the system. Modifications to the system, or configurations in a manner other than what is detailed in this manual and other ReechCraft publications, will void the warranty and could lead to equipment damage or personal injury. If you have any questions on components or accessories and how they should be used, contact your local dealer or call ReechCraft customer service.
10. Be sure you have the proper guardrails, endrails, midrails, and toeboards properly installed.
11. Once the system is installed and prior to operation, provide a barrier as necessary surrounding the work area below the work platform in accordance with federal, state, and local regulations. Prepare an emergency escape plan and keep a phone list of emergency numbers.

12. Never overload the system beyond the duty rating of 650 pounds (295 kg). Refer to the loading section of the Operator's Safety Manual for more information. Although the system is designed with large safety factors, excessively overloading the system could create system instability or structural damage, which may result in personal injury or death.
13. The work platform should not be raised higher than 69 feet (21 meters). For system configurations not detailed in this manual, consult with the ReechCraft engineering team.
14. Always keep hands, limbs, and clothing a safe distance from any moving parts.
15. Be sure all switches are off before connecting any electrical cords.
16. When working from any platform above the ground, do not overreach. Keep proper footing and balance at all times.
17. Ensure the system is lowered to the ground prior to entering or exiting the platform.
18. In the event of a system abnormality that could cause a safety hazard, contact the worksite supervisor immediately.
19. The system should never be operated during an electrical storm.
20. Wind speeds must not exceed 25 mi/h (40 km/h) during erection and dismantling. In service wind speeds must not exceed 35 mi/h (56 km/h).
21. For repairs or service questions, contact your local dealer or call ReechCraft customer service.

# REVISION LOG

Updated Version of Manual.....	June 2022
Updated Version of Manual.....	September 2021
Updated Version of Manual.....	October 2015

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# SECTION 1

## GENERAL SYSTEM INFORMATION

### 1.0 Climbing Unit

Figure 1.0 - Climbing Unit with Platform Supports

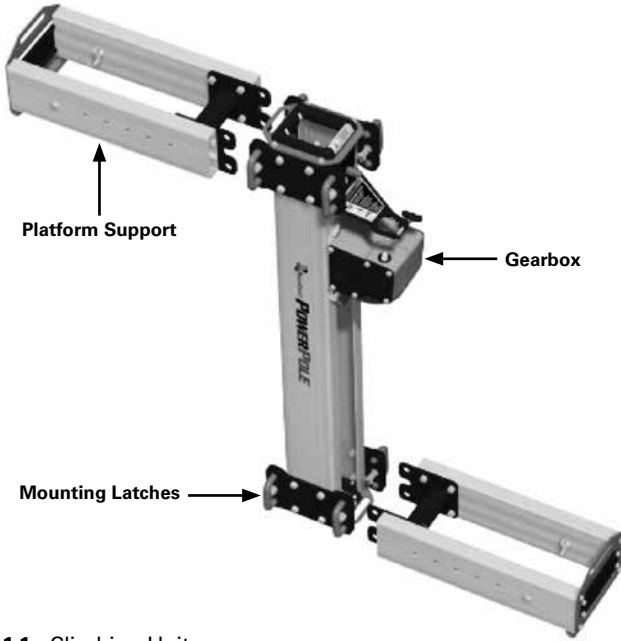
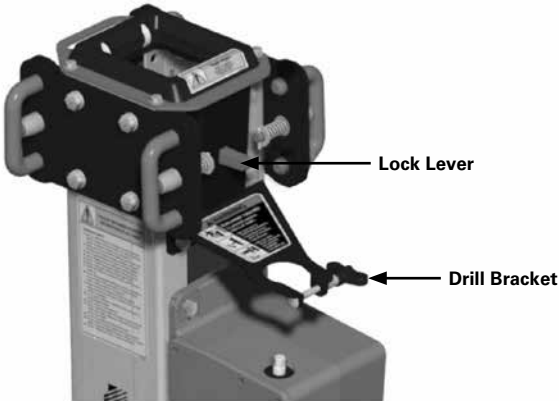


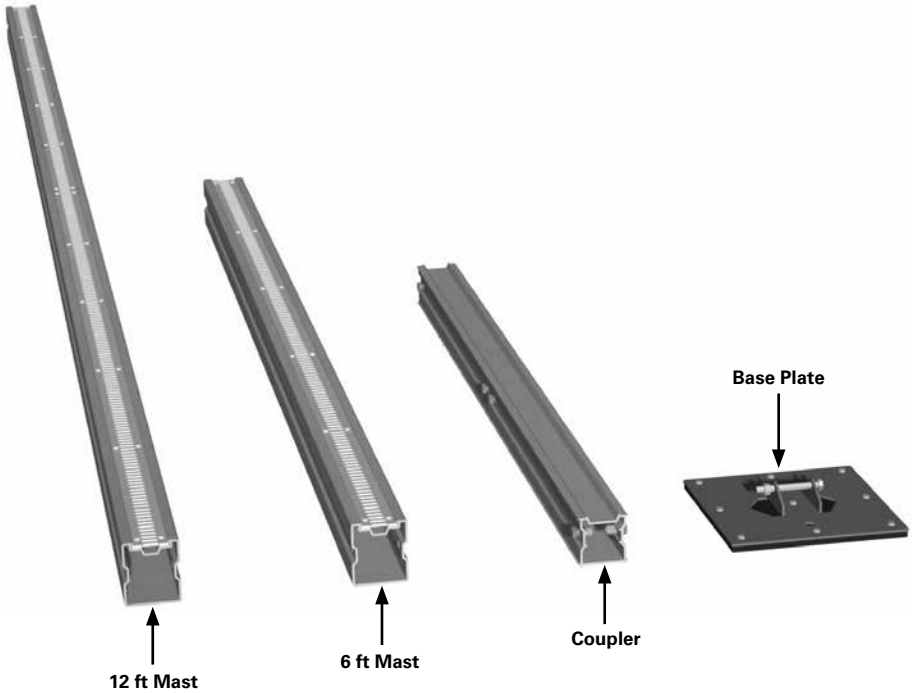
Figure 1.1 - Climbing Unit



## 1.1 Mast + Base Assembly

Masts come in lengths of six feet (1.83 meters) and 12 feet (3.66 meters). The masts can be connected together in any combination to form a rigid mast up to 75 feet (22.9 meters) tall with couplers. The base fastens to the bottom of the mast. (See Figure 1.2)

**Figure 1.2** - Masts, Coupler, and Base



## 1.2 System Configurations

Figure 1.3 - Standard Configuration



Figure 1.4 - Outrigger Configuration



## 1.3 Specifications

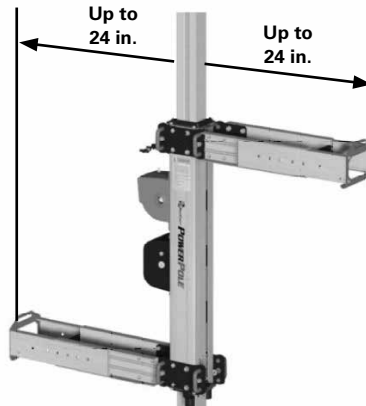
**Table 1.0** - System Specifications

DESCRIPTION	SPECIFICATION
Maximum Rated Load on Climbing Unit [Work Platform Weight Not Included]	650 lbs (295 kg)
Safety Devices	Lock Pawl
Emergency Lowering	Manual Descent Crank (Optional)
Maximum Climbing Speed	25 ft/min
Maximum Lowering Speed	30 ft/min
Maximum Platform Height	69 ft
Maximum Work Height	75 ft
Maximum Untied Work Height	24 ft (Requires Outriggers)
Maximum Work Height Without Mid-span Tie	32 ft (40 ft with Outriggers)
Maximum Length (Based on 32 ft Long Platform)	32 ft
Maximum Platform Width (Each Side of Mast)	28 in.
Maximum Wind Speed During Operation	35 mi/h
Maximum Wind Speed During Erection	25 mi/h

### Rated Load

The center of the rated load must be located within 24 inches from either side of the mast.

**Figure 1.5** - Rated Load



# SECTION 2

## ASSEMBLING THE SYSTEM

### 2.0 Layout Planning

- Standard or outrigger configuration:
  - Consider how high you need to go.
  - Standard configuration requires ties every 16 feet. However, if you are 32 feet or lower, you may use only one tie at the top.
  - Outrigger configuration allows for faster setup and can be worked on up to 24 feet without tying to the structure. If you are tied, you may have one tie at the top at a maximum height of 40 feet.
- Single or twin pole:
  - Consider straight runs of the wall, shared setups, ground obstructions, etc.
  - If you only need to access a narrow area such as a window, you can use a single man platform on one pole. For other configurations, you will need two (twin) or more (multi-pole) climbing units with the longer platforms up to 32 feet.
  - It is recommended to have twin systems versus multi-pole systems since it is nice to have more flexibility with two platforms versus one large one.
- Pole locations:
  - Will there be any special provisions for ground support needed?
- Wall-tie system locations:
  - 16 feet is the maximum tie spacing. Consider wall-tie locations that provide solid anchorage. Allow for areas of wall where no ties can go, requiring more ties.
- Component quantities:
  - Climbing units
  - Platform supports
  - Platforms
  - Poles
  - Ties
  - Bases
- Accessory items:
  - Drills
  - Cords - power source location or generator needed
  - Cribbing or sill needed (extreme setups only)

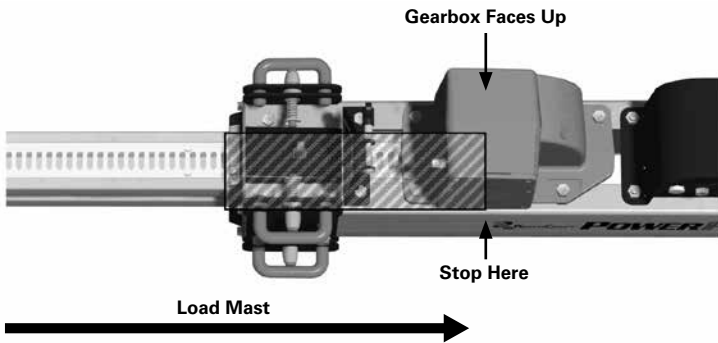
## 2.1 System Assembly

### Loading the Mast

Since the system was likely transported to the jobsite in separate components, it will be necessary to assemble those components prior to erecting the system next to the structure. The PowerPole system can be disassembled to varying degrees for easy transport. For the purpose of this manual, we will assume that the system is completely disassembled during transport to the jobsite.

- Position the traveler horizontally on the ground (gearbox up), and insert the mast by hand until the mast track engages the gearbox drive gear. (See Figure 2.0)

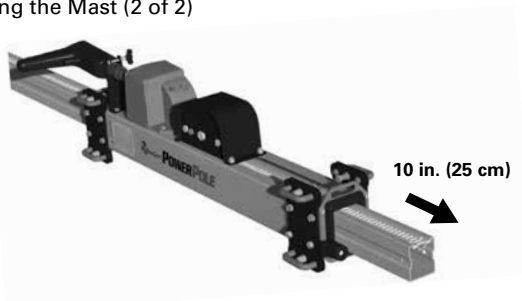
Figure 2.0 - Loading the Mast (1 of 2)



- Continue to load the mast by using the drill to move the mast through the traveler. Complete by funneling the mast through the bottom mast guide until the mast protrudes out the traveler by approximately 10 inches (25 cm). (See Figure 2.1)

**Important:** Use care when funneling the mast through the mast guide assembly, keeping all hands and limbs away from the area.

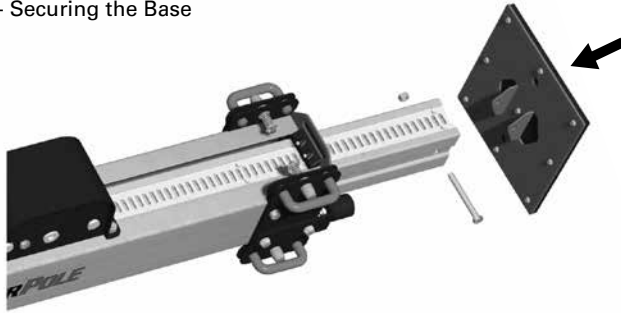
Figure 2.1 - Loading the Mast (2 of 2)



## Assembling the Base Plate

- Secure the base to the bottom of the mast using the bolt provided. (See Figure 2.2)

Figure 2.2 - Securing the Base

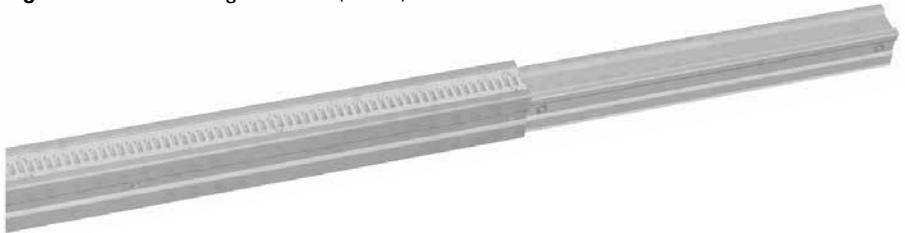


## Connecting the Masts

Mast lengths are offered in lengths of six feet (1.83 meters) and 12 feet (3.66 meters). Both lengths of masts have the same hole pattern. (See Figures 2.3 and 2.4)

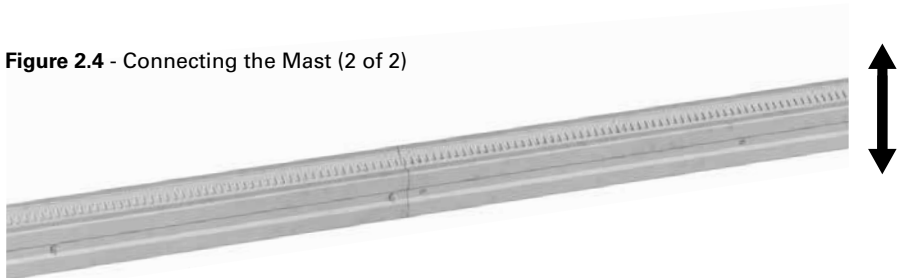
- Pre-assemble the coupler to one of the masts using the built-in snap buttons.

Figure 2.3 - Connecting the Mast (1 of 2)



- Slide the other mast on the coupler and attach using the built-in snap buttons. Slide the masts up and down to line up the holes.

Figure 2.4 - Connecting the Mast (2 of 2)

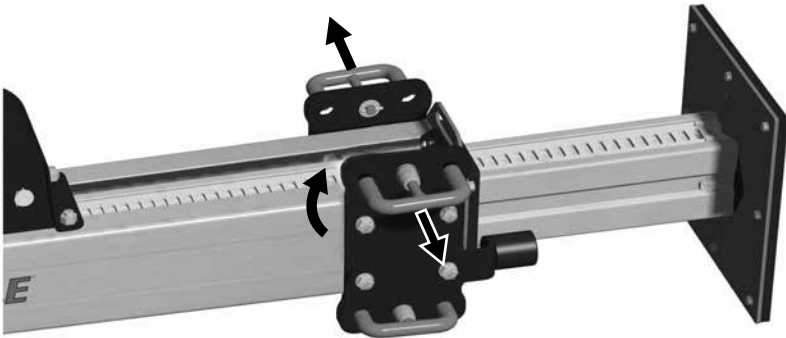




## Assembling the Platform Supports

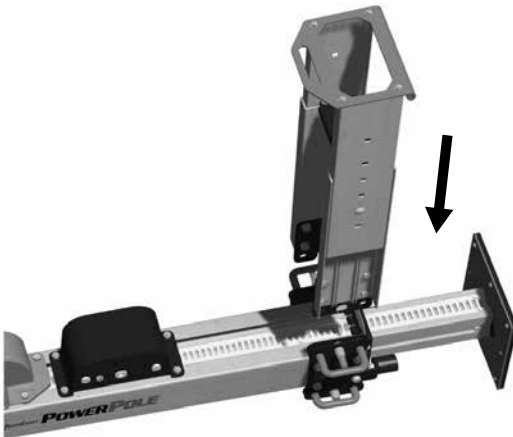
- Open the platform latches by pulling both latch pins outward, rotating slightly then releasing. (See Figure 2.5)

Figure 2.5 - Opening Platform Latches



- Place the platform connector into the latch system. (See Figure 2.6)

Figure 2.6 - Platform Connector Placement

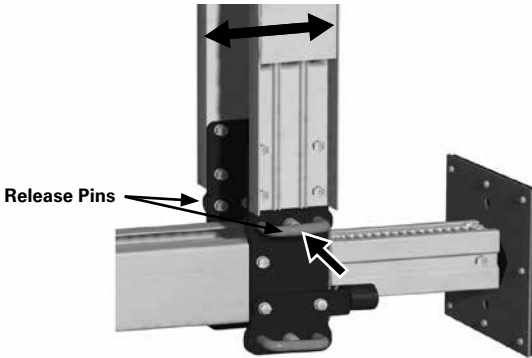


## ASSEMBLING THE SYSTEM

- Rotate the spring loaded latch pins back allowing them to “snap” in place. (See Figure 2.7)

**Important:** Be sure the pins travel completely through the assembly by moving the platform support up and down if necessary. Ensure that both sides have latched.

**Figure 2.7 - Latching the Pins**



**Note:** The optional bench support is assembled with the same procedure as the platform.

### Assembling the V-brace (Optional)

- Secure the v-brace assembly to the mast with the supplied hardware above the traveler assembly. (See Figure 2.8)

**Figure 2.8 - V-brace Assembly**



## Assembling the Outrigger Base (Optional)

- With the assembly on the ground, place the outrigger assembly onto the mast approximately three inches (eight cm) above the base plate and secure by fastening the outrigger to the mast with the supplied hardware. (See Figures 2.9 and 2.10)

Figure 2.9 - Outrigger Base Assembly

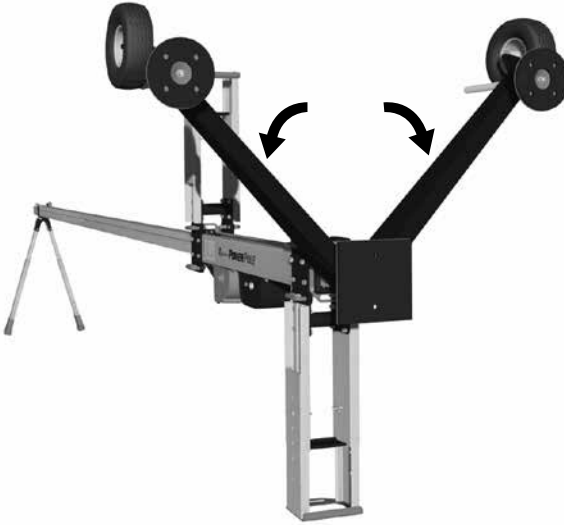


Figure 2.10 - Connecting Outrigger to Mast



# SECTION 3

## ERECTING THE SYSTEM

### 3.0 Ground Preparations

Referring to the layout plan, examine the ground conditions to ensure the surface can support the intended load of the system. Prepare the base surface for erection, removing any debris, obstacles, or any other conditions that could lead to injury during erection. Prepare the bearing areas by leveling and/or compacting the ground surface. Add cribbing or base plates to properly support the bearing force. (See Table 3.0)

**Table 3.0** - Ground Preparations

DESCRIPTION	SPECIFICATION
Base Plate Area	94 in. <sup>2</sup> (606 cm <sup>2</sup> )
Screw Stabilizer Area (Each)	48 in. <sup>2</sup> (269 cm <sup>2</sup> )
Force at Base Plate	1000 lbs (450 kg)
Force at Outrigger Screw Stabilizers (Each)	500 lbs (225 kg)

### 3.1 Erecting the Standard Configuration

Erection should only be carried out under the direct supervision of a competent person, and in compliance with all local, state, and federal requirements.

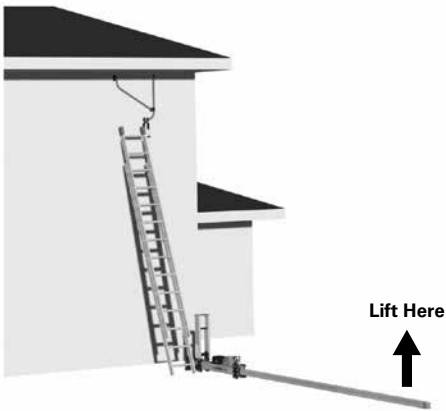
Refer to the layout plan to determine the complete list of equipment required for erection. Be sure all components have been inspected and maintained in accordance with product labels on the unit and information contained in this manual, or any other documents supplied by the ReechCraft technical team.

- Determine the location of the standoff tie to connect the top of the mast. Use a ladder to access the wall or obtain roof access to arrive at the mounting location of the standoff tie.
- Attach the tie securely to the structure using four 1/4 inch by three inch screws or equivalent to provide pullout strength. (See Table 3.0) Be sure to follow federal, state, and local guidelines for safe wall and roof access during the erection process.
- Once the standoff tie is secured, position the climbing unit and mast assembly with the base close to its final position.

**Important:** Before erecting the mast into position, thoroughly examine the area from the ground up to be sure there are no electrical lines or other obstructions that will interfere with the erection of the assembly.

- By starting at the top end of the assembly, lift the assembly and walk towards the structure while continuing to tilt the assembly upward into position. Complete the connection to the standoff tie by fully securing the swivel joint to the mast. Visually and physically check to ensure the connection is secure before continuing. (See Figures 3.0 and 3.1)

**Figure 3.0** - Lifting the Assembly (1 of 2)



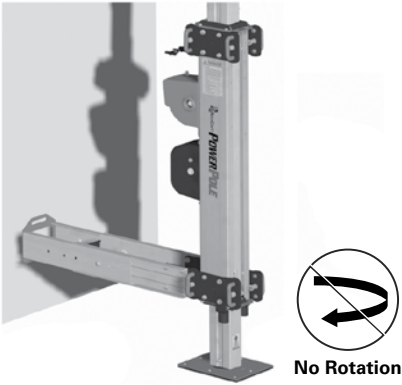
**Figure 3.1** - Lifting the Assembly (2 of 2)



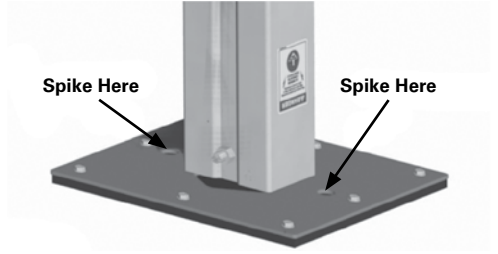
**ERECTING THE SYSTEM**

- At the mast base, ensure the bottom of the mast assembly will not rotate or slide in any direction along the base surface. This can be accomplished by driving spikes into the ground through the holes in the base plate. (See Figures 3.2 and 3.3)

**Figure 3.2 - Preventing Base Rotation**



**Figure 3.3 - Securing the Base**



- Alternatively, another standoff tie can be secured to the mast just above the base plate and fastened to the structure.
- Masts at lengths of six feet (1.83 meters) and 12 feet (3.66 meters) can be joined together to reach the maximum work height of 75 feet (22.9 meters). Heights over 24 feet (7.3 meters) require mid bracing every 16 feet (4.9 meters) or less. Refer to Section 6.1 for more information. Be sure to secure the standoff tie to meet the pull-out force. (See Table 3.1)
- Referring to the layout plan, repeat the steps above as necessary to properly erect each mast assembly.

**Table 3.1 - Standoff Tie Pull-out Force**

DESCRIPTION	SPECIFICATION
Pull-out Force for Each Screw [4 Screws Total]	125 lbs (57 kg) [500 lbs Total]

## 3.2 Erecting the Outrigger Configuration

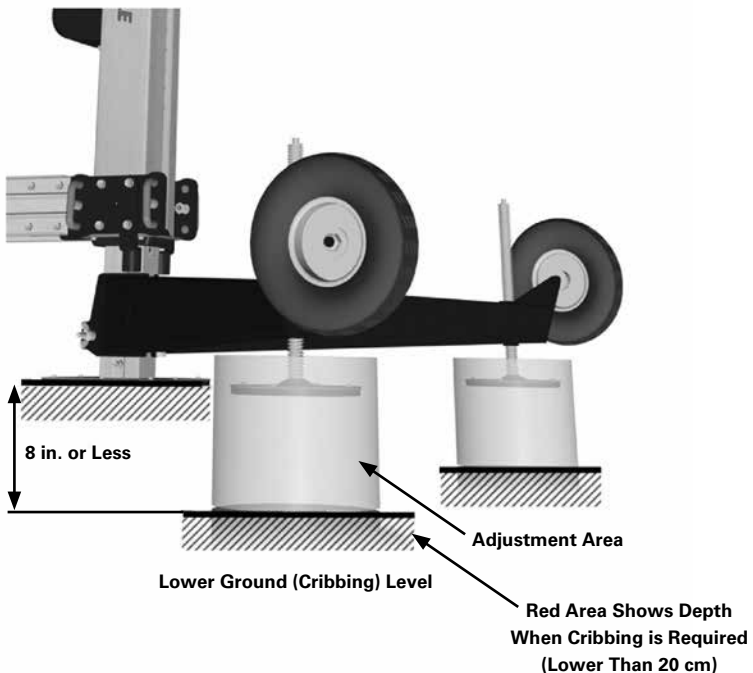
Erection should only be carried out under the direct supervision of a competent person, and in compliance with all local, state, and federal requirements.

Refer to the layout plan to determine the complete list of equipment required for erection. Be sure all components have been inspected and maintained in accordance with product labels on the unit and information contained in this manual, or any other documents supplied by the ReechCraft technical team.

- Determine the location of the mast assembly and where it will be placed on the ground surface. Measure the change in elevation from the base plate position to the screw stabilizer positions. If either of the screw stabilizer positions are lower than eight inches (20 cm) below the base plate position, cribbing must be added to ensure proper loading. Alternatively, earth can be removed in the base plate position to get the elevation back in range. (See Figure 3.4)

**Note:** Cribbing will not necessarily be round. It could be layers of wood, packed earth, or other firm substrates.

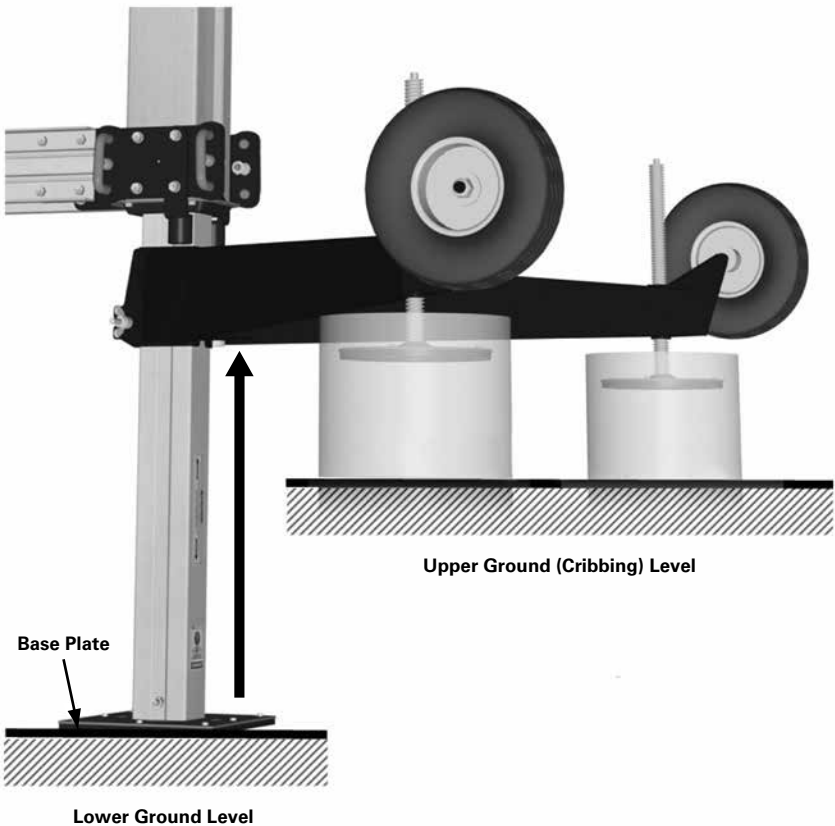
**Figure 3.4** - Adjusting Cribbing for Elevation Change



## ERECTING THE SYSTEM

- If the screw stabilizer positions are level or higher than the base plate location, then the outrigger assembly will need to be repositioned higher on the mast.
- If the change in elevation between each screw stabilizer exceeds eight inches (20 cm), the bearing surfaces of the screw stabilizers will need to be cribbed or earth lowered accordingly. If ground conditions are extreme, the installation may require the use of the optional all-terrain outrigger conversion kit. Talk to your local dealer or call ReechCraft for more information. (See Figure 3.5)

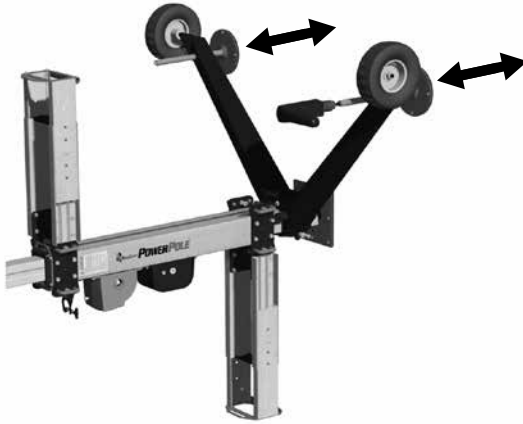
**Figure 3.5** - Adjusting the Outrigger Assembly Height





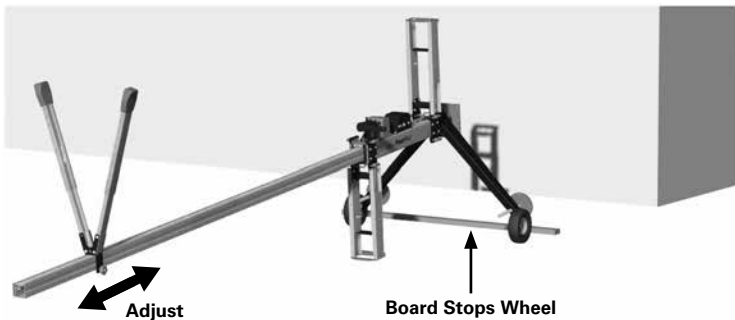
- Taking the elevation measurements of the three bearing positions, with the mast assembly still on the ground, adjust the outrigger assembly up or down on the mast as necessary and adjust the screw stabilizers close to their final positions using a drill and the supplied nut driver. (See Figure 3.6)

**Figure 3.6** - Adjusting the Screw Stabilizers



- Position the climbing unit and mast assembly with the base close to its final position. Lay down a stud board flat on the ground parallel to the wall for a temporary wheel stop to aid in erection. Referring to the layout plan, measure the distance the outrigger will be away from the wall and place the board on the ground accordingly.
- Determine the location of the v-brace on the structure and adjust it accordingly while the assembly is on the ground. (See Figure 3.7)

**Figure 3.7** - Positioning the Outrigger Assembly

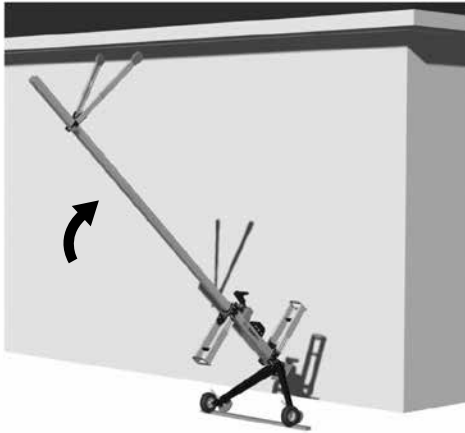


## ERECTING THE SYSTEM

**Important:** Before erecting the mast assembly into position, thoroughly examine the area from the ground up to be sure there are no electrical lines or other obstructions that will interfere with the erection of the assembly.

- Starting at the top end of the assembly, lift the assembly and walk towards the structure until the wheels contact the two inch by four inch stop board. Continue to lift and tilt the assembly upward into position while walking toward the structure. (See Figure 3.8)

**Figure 3.8** - Lifting the Outrigger Assembly



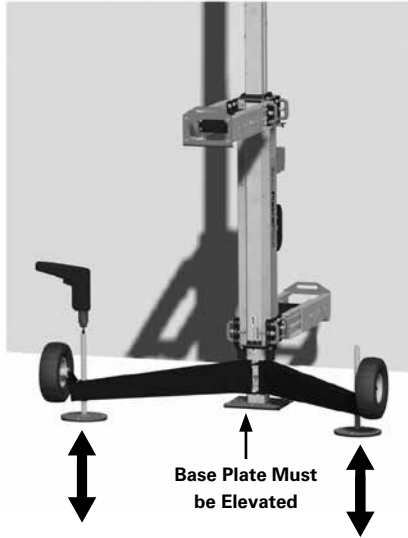
- Take care in the final portion of erection as the lifting force becomes a pulling force. Ease the mast assembly against the structure. (See Figure 3.9)

**Figure 3.9** - Placing the Mast



- Adjust the base plate and screw stabilizers so the mast assembly is vertically plumb in all directions and the base plate is located approximately 0.75 inches (19 mm) above the ground. (See Figure 3.10)

**Figure 3.10** - Adjusting the Base Plate



- During this process, the top of the mast assembly will “stick” slightly to the structure. Pull the mast assembly just away from the structure to allow the mast assembly to equalize itself and then set back against structure. (See Figure 3.11)

**Figure 3.11** - Equalizing the Mast Assembly



## ERECTING THE SYSTEM

**Note:** Lifting the base plate off the ground 0.75 inches (19 mm) with the screw stabilizers, (using only the weight of the mast assembly), helps ensure that the majority of the system bearing force goes into the base plate, leaving the outriggers to act as load stabilizers.

- At the mast base, it is necessary to ensure the bottom of the mast assembly will not rotate or slide in any direction along the base surface. This can be accomplished by driving spikes into the ground through the holes in the screw stabilizers. (See Figures 3.12 and 3.13)
- Alternatively, another standoff tie can be secured to the mast just above the outrigger assembly and fastened to the structure.

**Note:** During operation, once the work platform is installed, and especially with payloads of 50%-100%, the base plate should contact the ground.

**Figure 3.12 - Base Plate Elevation**



**Figure 3.13 - Screw Stabilizer Placement**



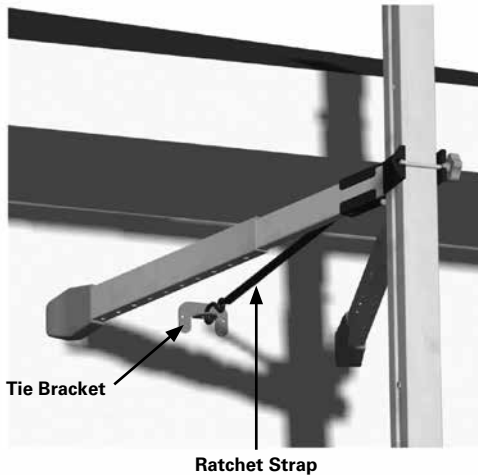
- When using the outrigger configuration at work heights above 24 feet (7.3 meters), the v-brace must be tied into the structure. Using ¼ inch by three inch screws, anchor the tie bracket to the structure in the middle of the v-brace centering it in line with the mast assembly. Connect the ratchet strap from the tie bracket to the v-brace. (See Figure 3.14) Complete the assembly by placing tension on the tie strap.

**Important:** Do not overtighten the ratchet strap. Doing so could put undue force on the anchor screws and substrate, decreasing the effective pullout strength of the connection. (See Table 3.2)

**Table 3.2** - V-brace Tie Bracket Pull-out Force

DESCRIPTION	SPECIFICATION
Pullout Force for Each Screw [2 Screws Total]	250 lbs (113 kg) [500 lbs Total]

**Figure 3.14** - Ratchet Strap Connection



- Masts of six feet (1.83 meters) and 12 feet (3.66 meters) can be joined together to reach the maximum work height of 75 feet (22.9 meters). Heights over 24 feet (7.3 meters) require mid bracing every 16 feet (4.9 meters) or less. Repeat the necessary steps above to properly secure the mast to the structure with the v-brace at the appropriate heights.
- Repeat the previous steps as necessary to properly erect each mast assembly.

# SECTION 4

## PLATFORM + BENCH INSTALLATION

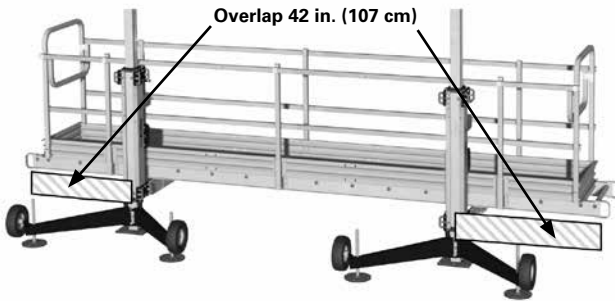
### 4.0 Introduction

With the mast assemblies in place, reference the layout plan to determine the size and placement of the work platform and work bench.

### 4.1 Work Platform Installation

- Place the appropriate length work platform on the platform supports. The work platform should overlap the center of the mast assembly by 42 inches (107 cm) and be placed 5.5 inches (14 cm) from the traveler. (See Figure 4.0)

Figure 4.0 - Work Platform Installation



- Thread the chains supplied with the system through the cross-member of the work platform and secure to the traveler and platform support. (See Figures 4.1 and 4.2). Be sure all platform and rail components are securely fastened and assembled correctly to prevent overturning or excessive side to side slippage. The platform should be level from front to back.

Figure 4.1 - Securing Work Platform (1 of 2)

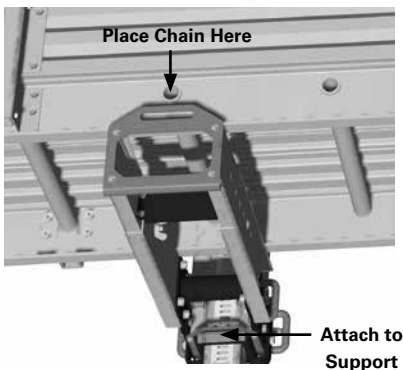
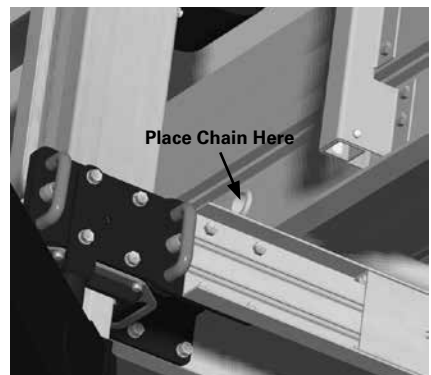


Figure 4.2 - Securing Work Platform (2 of 2)



## 4.2 Work Bench Installation

- The workbench is optional. Use the workbench to haul material and tools in the air for easy access and processing. Never stand or sit on the workbench under any circumstances. To install the work bench, place a matching length platform on the bench supports. Place the bench upside down to allow a trough for material to be placed. Complete the bench installation by threading the supplied chains through the cross-member of the bench platform and secure to the traveler and bench support as previous. (See Figure 4.3)

Figure 4.3 - Work Bench Installation



# SECTION 5

## POWER SYSTEM INSTALLATION

### 5.0 Introduction

Installation of the electrical system should only be carried out by a competent person. Installing electrical components on the system incorrectly could lead to personal injury or death. Examine the worksite completely, locating any hazards or conditions such as standing water, sharp objects, high traffic areas, etc.

**Important:** Before installing any electrical cords, be sure all equipment has been thoroughly examined for proper function and that no cuts, breaks, or damage of any kind exists with the electrical supply cords or the electrical cords on the drills. If any electrical lines are found to be damaged or have excessive wear, discard immediately and use new equipment.

The PowerPole system should only be used with electrical power drills that have been tested and recommended for use by ReechCraft or your local dealer. (See Table 5.0)

**Table 5.0** - Drill and Electrical Cord Specifications

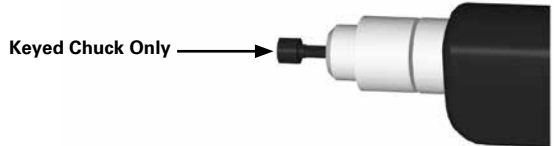
DESCRIPTION	SPECIFICATION
No Load Speed (High Speed for 1/2 Rated Load)	0-1200 RPM (0-3500 RPM)
Output Power	650 W-1000 W
Amperage	7.5 Amp-10 Amp
Drill Chuck	1/2 in. (13 mm)
Collar Size	1.68 in.-1.75 in. (42.5 mm-44.5 mm)
Drill Chuck Type Normal Operation	Keyed Only (Keyless for Setup Only)
Electrical Cord Rating	20 Amp, 10 gauge



## 5.1 Driver Installation

- Assemble the supplied 3/8 inch (9.5 mm) driver to the drill. Only use the driver supplied with the system or equivalent. (See Figure 5.0)

Figure 5.0 - Driver Installation



## 5.2 Drill Installation

- Be sure the flats of the driver are seated properly in the chuck jaws and that there is adequate engagement of the driver to the drill. Secure the driver to the drill by tightening the chuck with the chuck key. Keyless chucks are not permitted.
- Check to be sure the chuck key is removed from the drill chuck before turning on.
- Place the drill with driver into the drill bracket, align the driver to the gearbox input shaft and press lightly downward until driver fully seats on the input shaft.

**Important:** The drill with driver must be able to insert freely through the drill bracket and on to the input shaft. Remove any obstructions and make necessary adjustments so the drill can be inserted freely. (See Figure 5.1)

- The drill bracket is designed to hold the drill on the gearbox input shaft and also keep the drill body from rotating during operation. Be sure the drill bracket is secure and functioning properly before proceeding. With the drill and driver indexed to the eight o'clock position (see Figure 5.2), gently tighten the drill bracket wing nut. Periodically check and adjust the wing nut to ensure a secure fit.

Figure 5.1 - Drill Installation

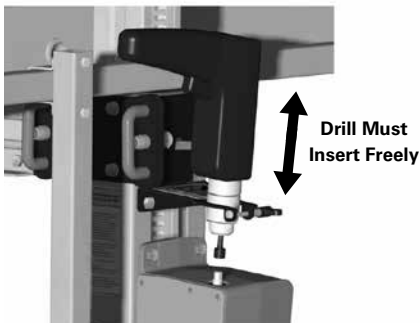
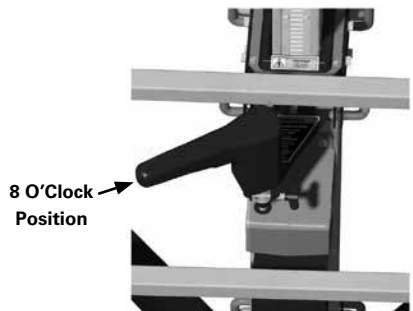


Figure 5.2 - Tightening the Drill Bracket



## 5.3 Power Cord Installation

- Be sure that the electrical power cords are disconnected from the power source before attempting to connect the drills to the cords. Be sure the drill triggers are in the OFF position. Using appropriately sized electrical cords, connect the drills together into one circuit. Be sure to properly manage the cords by securing them to the rail system (see Figure 5.3). Eliminate any conditions which would allow the electrical cords to catch on clothing, tools, materials, or any other obstruction.

**Figure 5.3 - Securing the Cords**



- Ensure that the cords are fastened together and joints will not disconnect during operation. Ensure there is sufficient cord for the full height of travel and that the electrical cords will hang vertically down to the ground, without interfering with the PowerPole climbing units or work platform. Protect all cords from any sharp edges or locations that could cause wear or damage to the cords in any way. (See Figure 5.4)

**Figure 5.4 - Cord Management**



**Optional Cord Management Suggestion**

- In a preferred configuration, the drills can be connected into the power supply by way of an in-line power board with circuit protected switch. This configuration allows for actuation of both drills at the same time for lifting the platform.

**Important:** Lowering the platform will require the individual control of each drill. Refer to Section 6.0 for more information on lifting and lowering the work platform.

Figure 5.5 - Power Cord Installation



Large, Brightly Colored  
Extension Leads Only  
(See Table 5.0)

# SECTION 6

## OPERATING THE SYSTEM

### 6.0 Operating the Work Platform

Operation should only be carried out by a competent person, and in compliance with all local, state, and federal requirements. Be sure you are wearing the appropriate personal protective equipment (PPE) while operating the system.

- Load any necessary equipment, tools, and materials securely onto the system. Be sure to keep walk ways free of obstruction.
- Re-examine the entire work environment below and above the platform to ensure there are no obstructions or personnel in the way of operation. (See Figure 6.0)

**Figure 6.0** - Work Environment Inspection



- While lifting the platform, always keep hands free from any moving parts. Raise the platform by placing the drill in the forward (clockwise) position and pulling the trigger. Release the trigger to stop. Always allow the lock lever to ratchet while lifting the work platform. (See Figures 6.1 and 6.2)

Figure 6.1 - Moving Parts

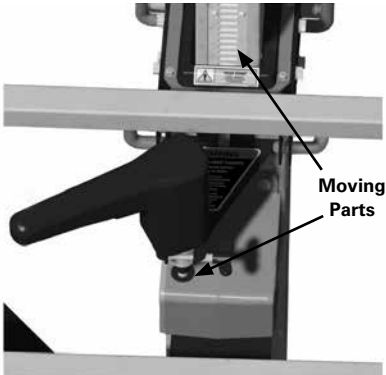


Figure 6.2 - Lock Lever with Ratchet



- While conducting work on the platform, it is required that the platform remain level and stationary. However, if only one person is on the platform, it is permissible to allow the platform to temporarily slope up to 10 degrees while repositioning the platform to a different work height. In this case, the work platform temporarily becomes a walkway, guiding you back and forth between the mast assemblies for adjusting the height.

**Important:** If you are raising the platform one side at a time, be sure all material and tools are secured on the platform to allow for a temporary 10 degree angle of the platform. Never exceed a temporary platform angle of 10 degrees off horizontal. Transfer back and forth on the walkway. Do not conduct work until the platform is level. (See Figure 6.3)

Figure 6.3 - Leveling the Platform



## OPERATING THE SYSTEM

- To simplify raising the platform with one person, it is suggested to use the preferred configuration of an in-line power strip with switch. With the switch in the OFF position, switch the drills to the forward lifting position and lock the triggers to the ON position. Energize the switch to lift both sides of the work platform at the same time.

**Important:** Do not move your finger off of the switch and be prepared to stop at any time.

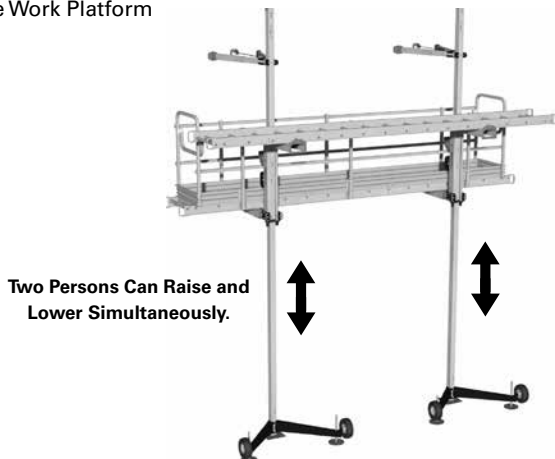
- Once stopped, it may be necessary to level the platform by operating the drills independently again. In that case, turn the switch to the OFF position and release the trigger lock on the drills. Re-apply electricity to the drills, operating once again with the trigger.
- To lower the work platform, reverse the direction of the drill, lift up on the lock lever with the other hand, then pull the trigger on the drill while holding the lock lever.

**Note:** *On occasion, the lock lever may be engaged into the track and will need to be released before going down. Simply lift the system up slightly until lock lever is released, then proceed with lowering.*

**Important:** While lowering the platform, it is best to come to a complete stop by releasing the drill trigger first, coasting to a stop, and then dropping the lever. In the unlikely event that the system becomes unstable during lowering, drop the lock lever immediately.

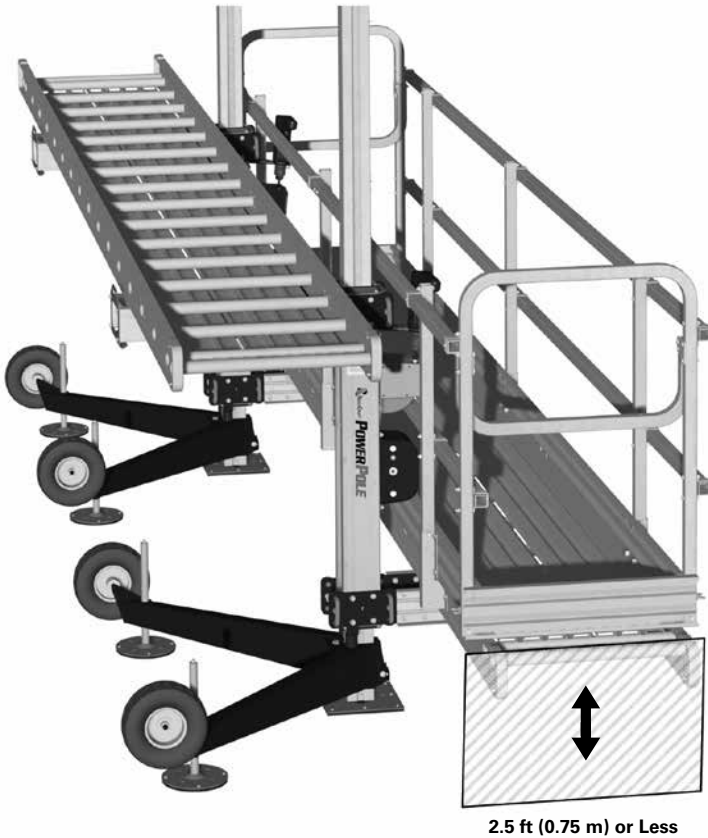
- For two person operation, each person can operate one climbing unit, simultaneously raising or lowering the platform. Keep the platform as level and never exceed the 10 degree angle. (See Figure 6.4)

**Figure 6.4** - Operating the Work Platform



- Do not exit the platform until completely stopped and off the ground less than 2.5 feet (0.75 meters). (See Figure 6.5)
- If your setup requires transferring to another unit or platform, take every precaution necessary to prevent a fall and follow all local, state, and federal safety guidelines.

Figure 6.5 - Exiting the Platform



## 6.1 Passing a Middle Tie

- When using the outrigger base at heights greater than 24 feet (7.3 meters), the system must be tied into the structure. If the outrigger configuration is not being used, the system shall be tied at all times. At heights greater than 24 feet (7.3 meters), the mast assembly shall also be supported by intermediate ties every 16 feet (4.9 meters) or less. (See Figure 6.6)

**Figure 6.6 - Supporting the Mast**



- Though normally tied during operation, it is acceptable to temporarily disconnect one middle tie at a time to allow you to move past and reconnect.
- To pass a tie while elevating the platform, approach the tie with care, slowing the speed down on the climbing unit. Stop when you have a comfortable reach of the mast/tie connection.
- Disconnect the tie and rotate it downward until it lies against the structure. It may be necessary to lower the platform slightly to allow the tie to clear the work platform and rail system. (See Figure 6.7)

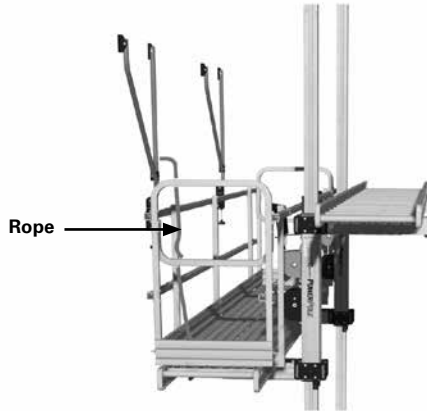
**Figure 6.7 - Disconnecting the Tie**





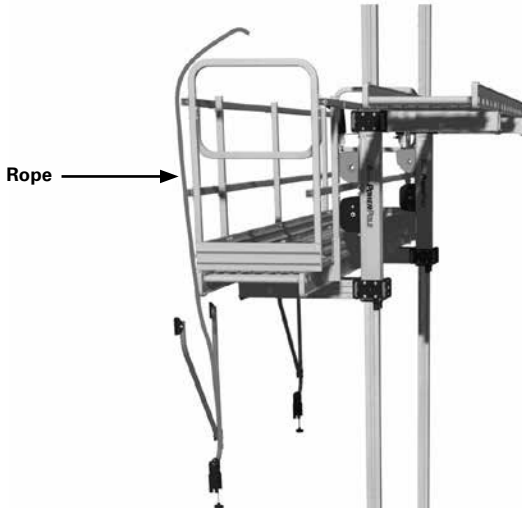
- Secure a 6.5 foot (two meter) rope to the end of the tie to help rotate the tie back into place once above it. Be sure there is adequate distance to clear the tie with the work platform before continuing. (See Figure 6.8)

**Figure 6.8** - Securing the Rope



- Proceed by elevating the platform just past the tie.
- Stop the platform, pull the rope to rotate the tie back into position, and reconnect and secure the tie to the mast. Be sure the rope is contained properly to not interfere with operation of the platform and tie. (See Figure 6.9)

**Figure 6.9** - Elevating the Rope



**Figure 6.10** - Passing a Tie or V-brace



- To pass a tie while lowering the platform, approach the tie with care, slowing the speed down on the climbing unit. Stop just above the tie.
- Disconnect the tie and rotate it down toward the structure until it lays flat on the wall. Be sure there is adequate distance to clear the tie with the work platform before continuing.
- Continue to lower the platform below the tie and stop the platform. Finish by reconnecting and securing the tie to the mast.
- Alternatively, a v-brace may be used for a middle tie. To pass a v-brace, approach the brace with care and stop the platform when the connection to the mast is easy to reach. Disconnect the middle v-brace from the mast and allow the v-brace to hang down on the structure with the tie chain. Be sure there is adequate distance to clear the v-brace with the work platform before continuing.
- Continue to raise the platform just past the tie point of the v-brace. Reconnect and secure the v-brace to the mast and structure.
- To pass a v-brace while lowering the platform, approach the v-brace with care, slowing the speed down on the climbing unit. Stop just above the v-brace.
- Disconnect the brace from the mast and allow the v-brace to hang down the structure with the tie chain.
- Continue to lower the platform below the tie point and stop. Reconnect and secure the v-brace to the mast and structure.

# SECTION 7

## TRANSPORT + STORAGE

### 7.0 Transport + Storage

#### Transport

The PowerPole system was designed to be componentized for easy transport. The level of disassembly will be determined by the method of transport and size constraints. Be sure that all system components are secured properly for transport.

**Note:** *Transporting the system can cause vibrations that are unique from normal assembly, erection, and operation. Avoid methods that place excessive forces or any undue stress on the system. It is recommended to use a full enclosure for transport if possible.*

#### Storage

The PowerPole system was designed for rugged outdoor use and it is suited to be stored outdoors. However, storing the system indoors is advised to maximize the life span of your investment. Keep the system component inventory organized and labeled with a physical record of component inspection and maintenance. Avoid storing equipment near standing water, ice, electrical lines, furnaces, or any other potential hazards.

# SECTION 8

## INSPECTION + MAINTENANCE

### 8.0 Inspection + Maintenance

Proper and timely maintenance will help ensure the PowerPole system performs safely, efficiently, and trouble free. Follow these guidelines for inspection and maintenance. Included on the following pages are logs for daily, weekly, and annual inspection and maintenance.

DAILY INSPECTION AND MAINTENANCE LOG (1 OF 2)	
Competent Person (Print)	
Date of Inspection	
Company Name	
Jobsite	
Signature of Competent Person	
Comments	

DAILY INSPECTION AND MAINTENANCE LOG (2 OF 2)		
Component	OK	Inspection/Action
Gearbox		Inspect the input shaft for wear or damage. If hex is rounded or damaged in any way replace immediately.
Cam Lock Lever		Inspect the cam lever lock for any damage or excessive wear. Ensure the torsion spring returns the cam lever lock to rest position freely and quickly. Inspect to make sure that bolts are tight and securing the cam lever lock assembly to the traveler. While raising the climbing unit, listen for an audible ratcheting pattern. The pattern should be uniform in volume and frequency.
Drill Bracket		Inspect the drill bracket for any damage or misshapen parts. Check that the bolts are securely fastening the drill bracket to the traveler. Fasten the drill to the gearbox using the drill bracket. Be sure the drill assembly with driver freely moves on to the hex input shaft of the gearbox and engages fully. Secure the drill to the drill bracket by tightening the wing nut.
Platform Support		Inspect all platform and bench supports for any loose connections or damaged components. Ensure the supports are connected securely to the climbing unit, inspecting the bolt connections and locking pins that secure them to the traveler. Be sure all hardware used for adjustment is present and functioning properly.
Masts		Inspect the mast for damage and straightness. Discard and replace as necessary.
Standoff Tie		Inspect the entire standoff tie for any loose connections, misshapen, broken, or damaged parts. Be sure that the mast swivel joint pin is secure and that the adjustment knob for the mast is in good, working condition. Discard and replace parts as necessary.
V-brace		Inspect the entire v-brace for any loose connections, misshapen, broken, or damaged parts. Be sure the adjustment knob and bolt are in good, working order. Check to ensure the locking pins are properly engaging into the channels. Make sure the bolts are securely fastened.
Outrigger Base		Inspect the pivot joint bolt and make sure they are secure. Check the brackets that fixture to the mast. Be sure they are not damaged and that the adjustment nut, spacer, and bolt are present and functioning properly.
Work Platform		Ensure that the guardrails are in place and functioning properly. Test both swinging gates to ensure they close properly.
Drills		Check the cords and nut driver. Be sure that the nut driver is securely fastened. Discard or repair any damaged electrical cords.
Cords/ Powerboards		Check for any damage. Discard or repair immediately.

**WEEKLY INSPECTION AND MAINTENANCE LOG (1 OF 2)**

Competent Person (Print)	
Date of Inspection	
Company Name	
Jobsite	
Signature of Competent Person	
Comments	

## WEEKLY INSPECTION AND MAINTENANCE LOG (2 OF 2)

Component	OK	Inspection/Action
Scheduled Maintenance		Be sure that all daily inspections and maintenance have been completed.
Gearbox		Inspect how the gearbox is mounted to the traveler. Make sure the bolts are secure. Inspect the casting of the gearbox for any damage or leaks. Replace the gearbox or call your local dealer or ReechCraft for replacement parts.
Cam Lever Lock		While holding the cam lever lock up, lower the climbing unit. Be sure that the cam lever lock can be held in the up position. While standing next to the erected mast assembly and climbing unit, lower the climbing unit and drop the cam lever lock, continuing to clutch the gearbox for three seconds. Ensure the cam lever lock fully engages the track and stops the climbing unit.
Drill Bracket		While standing beside the climbing unit, lower the traveler, allowing the lock lever to fully engage the track and clutch out the gearbox for three seconds. When functioning properly, the drill bracket will place a small down pressure to the drill assembly and will prevent the drill from rotating against the torque created by the gearbox clutch.
Masts		Inspect the gear track for any excessive wear or broken, misshapen, or missing rungs. Lug width should be at 95% of the new. Discard the track and replace with a new mast if necessary. Check for any missing screws on the track and replace.
Couplers		Inspect the couplers for any bends, punctures, or any other damage to the tube. Inspect the snap buttons. Contact ReechCraft to replace any damaged or missing snap buttons.
Base Plate		Inspect the base plate for damage and make sure the rubber is properly attached and in good condition. The locking pin must be present and working properly.
V-brace		Be sure the v-brace unfolds and spring pins "click" into place. Inspect the bumper pads for excessive wear and replace as necessary. Make sure the tie bracket and strap are available and connected to the v-brace.

**ANNUAL INSPECTION AND MAINTENANCE LOG (1 OF 2)**

Competent Person (Print)	
Date of Inspection	
Company Name	
Jobsite	
Signature of Competent Person	
Comments	

**ANNUAL INSPECTION AND MAINTENANCE LOG (2 OF 2)**

<b>Component</b>	<b>OK</b>	<b>Inspection/Action</b>
Scheduled Maintenance		Be sure that all daily and weekly inspection and maintenance have been completed.
Gearbox		Completely remove the gearbox from the traveler. Check over the entire gear box for excessive wear, oil leaks, or any damage. Check to ensure the input shaft and output gears are not sloppy around the bearings. Call your local dealer or ReechCraft for replacement parts. Inspect drive gear for wear. If the gear tooth profile is not symmetrical on one or more teeth, or there appears to be any damage to the gear, discard and replace immediately. Verify the clutch force of the gearbox. Be sure that all bearings, guides, and gearbox gears are functioning properly. Erect a single mast assembly with the traveler next to a structure. Taking all necessary safety precautions and with the traveler less than 20 inches off the ground, load 750 lbs and secure to the unit (no work platforms etc.). Make sure you can lift approximately 750 lbs without stalling. If not, call your local dealer or contact ReechCraft for recommendations or service parts.
Outrigger Base		Visually inspect all welds for any cracking or excessive rust. Check the screw stabilizers for wear or damage. Service screws with lightweight spray-on lubricant and use a drill to turn the screw, allowing the lubrication to penetrate the female threads. Check to make sure the swivel joint on the screw base is not damaged and is secure and functioning properly.



# SECTION 9 WARRANTY

## ReechCraft, Inc. North American End-User Limited Warranties

Thank you for purchasing a ReechCraft product. Please read the following warranty for details about ReechCraft's limited manufacturer's warranty (the "end-user warranty").

By using the products (as defined below), you agree to the following provisions, which contain limitations on warranties and liabilities and on your remedies.

All new ReechCraft equipment with serial numbers and date-coded gearboxes (the "product") must be registered at [warranty.reechcraft.com](http://warranty.reechcraft.com) to activate the product's end-user warranty.

ReechCraft, Inc.'s ("ReechCraft") end-user warranty applies to new product only that is manufactured after September 1, 2018. The end-user warranty is solely for the benefit of the original end user who purchases the product from an authorized reseller of ReechCraft product (the "end user") and is a "manufacturer's" warranty provided directly by ReechCraft to the end user, effective on the end user's original date of purchase. For purposes of this end-user warranty, an authorized reseller of ReechCraft product shall be referred to herein as "reseller." In the event a reseller leases product to a customer of the reseller with or without consideration, the end-user warranty shall apply to the reseller only and NOT to a lessee of the product.

ReechCraft warrants all products for a period of 12 months and all other components and accessories for a period of 90 days from the end user's original date of purchase (the "warranty period"). The end-user warranty is non-transferable by the end user and only applies to product manufactured after September 1, 2018.

During the warranty period, ReechCraft warrants products to be free from defects in materials and workmanship. ReechCraft's obligation and liability on any products that ReechCraft has determined to have been defective in materials or workmanship shall be limited to the repair or replacement of the product, at the sole option of ReechCraft. Such replacement parts shall be provided at no cost to the end user. Replacement parts and components provided under this end-user warranty will continue to be covered until the end of the warranty period. Replacement parts and components purchased by the end user from ReechCraft or a reseller beyond the expiration of the warranty period will carry its own 90-day end-user warranty.

All products purchased by the end user must be registered at [warranty.reechcraft.com](http://warranty.reechcraft.com) within 60 days of the end user's purchase for the end-user warranty to be activated. In the event an end user fails to register the product within the 60-day period, this end-user warranty will not apply. ReechCraft reserves the right to request maintenance records of defective parts prior to settling any warranty claim, as well as to deny such claim if maintenance records are not available or not compliant with the product's maintenance schedules. All warranty claims must be submitted in writing as outlined in the claims procedure section, which can be obtained at [reechcraft.com/warrantyclaim](http://reechcraft.com/warrantyclaim) or by calling **1-888-600-6160**.

## What The End-User Warranty Does Not Cover:

This end-user warranty does not cover any product (a) for which you are not the original purchaser; (b) that is repaired after the warranty period has expired; (c) manufactured before September 1, 2018; (d) normal wear and tear; (e) that has been installed other than per the product's instruction guidelines; (f) that has been improperly maintained or maintained, altered, modified, or repaired by someone other than ReechCraft or a ReechCraft authorized service center; (g) on which the serial number has been altered, removed, or rendered illegible; (h) that has been physically damaged, other than by ReechCraft or a ReechCraft reseller; (i) accidents, failure to follow instructions, use outside the scope of any other provided documentation (e.g., warning or instruction labels, owner's manual, installation instructions, etc.), misuse, abuse, neglect, fire, flood, or acts of God; or (j) any warranties provided by the reseller of the product.

Misuse may include, but is not limited to, damage to product by vehicles, tools, people, animals, the use of products beyond rated capacity, and using a product in any matter contrary to the warning or instruction labels on the product and the product's owner's manual. Manuals can be obtained by contacting ReechCraft at **1-888-600-6160** or at **reechcraft.com**.

This end-user warranty does not cover any labor (including repair labor), travel time or mileage for pickup and delivery, shipping or freight costs, or lost income for down time. Additionally, this end-user warranty does not cover any duties, taxes, or environmental fees, including but not limited to the disposal or handling of materials.

Parts purchased or sourced by suppliers other than ReechCraft or a ReechCraft reseller are not covered under this end-user warranty. Under no circumstances will ReechCraft be responsible for any expense in connection with any repairs using unauthorized parts or in connection with any repairs made by anyone other than a reseller of the product or other ReechCraft authorized service station, unless such repairs have been specified in writing from ReechCraft.

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