

SECTION 3

MACHINE OPERATION

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SECTION
3

3.1 General

NOTE: The manufacturer has no direct control over the machine application and operation. The operator is responsible for following sound safety practices.

3.2 Machine Description

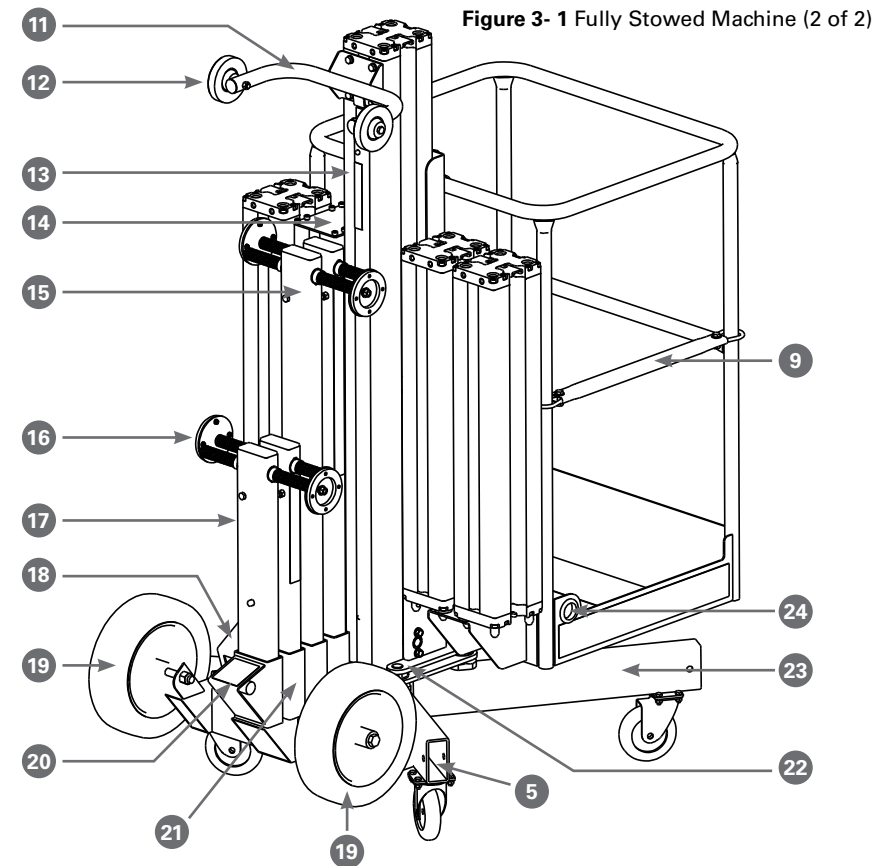
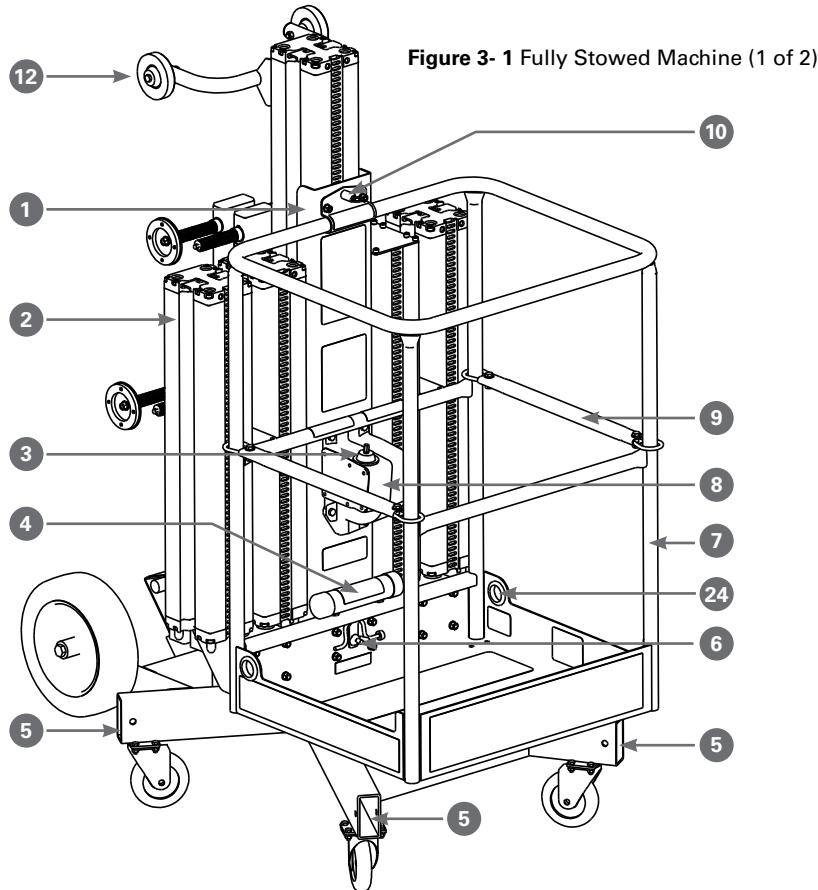
The Reechcraft PowerLift is a drill powered aerial work platform (AWP). The removable platform is mounted to an elevating climbing unit that combines up to four (4) modular mast sections that are stacked and fixed to a base mast on a movable chassis. The machine is stabilized by way of outriggers and leveling jacks. The PowerLift's intended purpose is to provide personnel and their tools access to work areas above the ground.

Legend

- | | |
|--------------------------------|---------------------------------------|
| 1. Climbing Unit | 13. Retraction Strap Tool |
| 2. Intermediate Mast | 14. Top Mast |
| 3. Drive Shaft Brake | 15. Front Outrigger |
| 4. Manual Container | 16. Leveling Jack |
| 5. Outrigger Socket | 17. Rear Outrigger |
| 6. Manual Descent Crank | 18. Retraction Winch |
| 7. Platform | 19. All Terrain Transport Tire |
| 8. Gearbox | 20. Tilt-back Step |
| 9. Platform Entry Gate | 21. Outrigger Storage Socket |
| 10. Platform Retaining Pin | 22. Bubble Level |
| 11. Tilt-back handle | 23. Chassis |
| 12. Horizontal Transport Wheel | 24. Anchor Point/Ext. Cord Throughway |

The primary control of the machine is the drill motor.

NOTE: Be sure to follow the recommended drill motor specifications for safe operation and best machine performance.



Drill Motor

Reechcraft recommends a cordless drill of at least 18V capacity or a corded drill of at least 7 amps.

Ensure the drill motor's optional "Hammer" setting is disabled and the drill motor is in "Drill" mode.

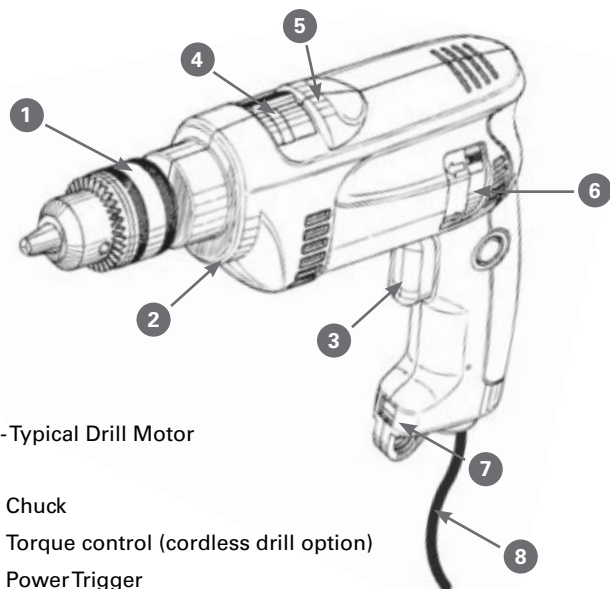


Figure 3-2 - Typical Drill Motor

1. Chuck
2. Torque control (cordless drill option)
3. Power Trigger
4. Speed Controller (optional)
5. Drill/Hammer Function Selector (optional)
6. Direction Selector
7. Battery Pack (cordless)
8. Power Cord

! WARNING

USE ONLY CORDLESS OR DOUBLE INSULATED CORDED DRILL MOTORS. DISCONTINUE THE USE OF THE DRILL IF A FAULT IS DETECTED. ENSURE THE DRILL MOTOR IS IN "DRILL" MODE AND SET TO THE APPROPRIATE TORQUE SETTING.

3.3 Machine Operation

General

When the platform reaches the bottom of its travel and seats in the "Docked" position the overload clutch creates a ratcheting or buzzing noise, indicating that the machine has reached the fully lowered position.

! CAUTION

BE SURE TO MAINTAIN A FIRM GRIP ON THE DRILL AT ALL TIMES DURING OPERATION.

The machine is fitted with a drive shaft brake to prevent motion of the platform not initiated by the operator.

Before operating the machine, be sure the platform is fully lowered and all four (4) outriggers are properly installed. Be sure the machine is level and on a surface capable of supporting the intended load.

! WARNING

IN THE EVENT THAT THE CLIMBING UNIT FAILS TO ELEVATE AFTER THE OUTRIGGERES HAVE BEEN PROPERLY INSTALLED AND STABILIZED, THE MACHINE IS NOT WORKING PROPERLY AND MUST NOT BE USED UNTIL IT IS INSPECTED AND REPAIRED BY A QUALIFIED PERSON.

NOTE: Do not attempt to enter or exit the platform unless it is fully lowered in the docked position.

3.4 Machine Setup

Because the Reechcraft PowerLift is a modular operator assembled machine, the platform, each outrigger and mast section can be removed to reduce weight as the situation requires.

NOTE: For the purposes of this section, it is assumed that the machine is in it's fully stowed configuration.

Getting Started

1. Place the machine on a firm, stationary surface capable of supporting the intended load directly under the desired work area.
2. Connect to an appropriate power source. AC: connect to a grounded 15A AC power supply. Be careful the extension cord remains slack at maximum height and does not become entangled in the machine.
3. Install front and rear outriggers in their designated positions. Using the drill and 3/8" socket, level the chassis by adjusting each of the leveling jacks, until the level bubble is centered (Figure 3-4).

NOTE: For best performance, Reechcraft recommends a 12 gauge 3 wire extension cord no longer than 50 feet.

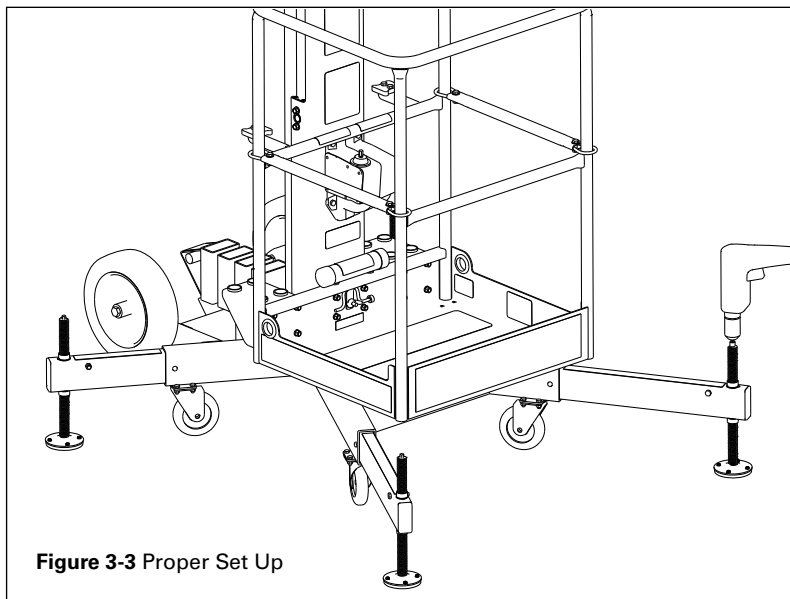


Figure 3-3 Proper Set Up



Figure 3-4 Bubble Level



DO NOT USE MACHINE IF CHASSIS CANNOT BE LEVELED

Elevating

Make sure the pre-start inspection has been completed and the machine is safe to use and the chassis is level and stable with all four outriggers bearing weight.

Move the direction selector so the drill motor is in the forward (clockwise) position.

Hold the drill motor handle firmly, push down lightly to automatically disengage the drive shaft brake and squeeze the trigger to elevate.

Stop using the drill motor if any part of it becomes excessively hot. Wait until the drill motor has cooled down before continuing operation.

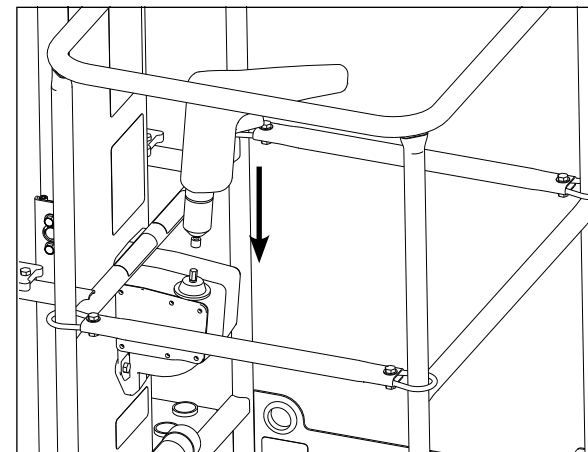


Figure 3-5 Drill Motor Operation / Elevating

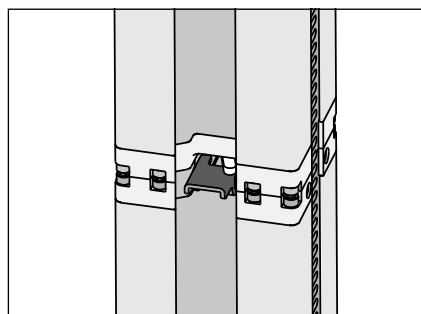
Joining Mast Sections

Elevate the climbing unit approximately 3 inches past the top of the mast and carefully remove the mast section from its stowed position.

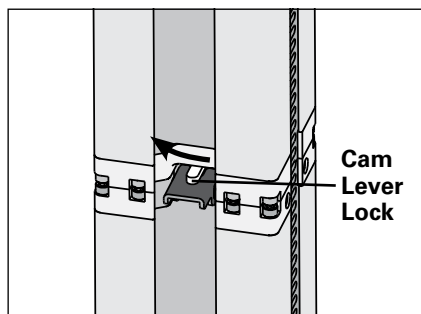


DO NOT DROP MAST SECTIONS. ALWAYS MAINTAIN A FIRM GRIP WHEN HANDLING

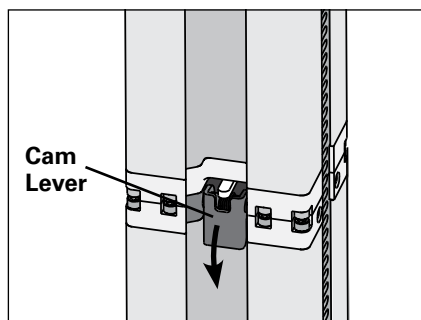
Figure 3-6 Joining Mast Sections



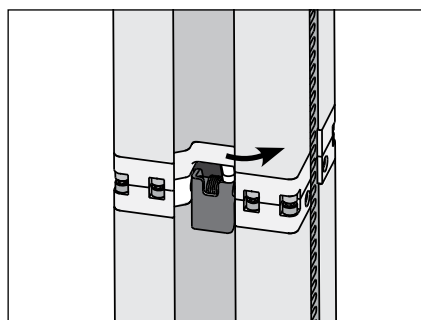
1. Stack the mast ensuring that the track is facing toward the platform.



2. Rotate the cam lever lock until it stops in the center position.



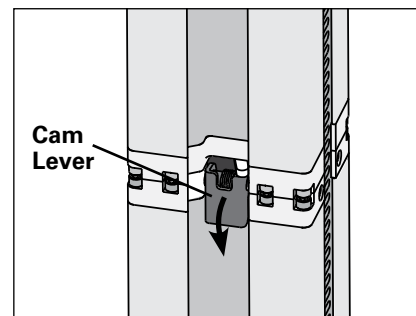
3. Press both cam levers down and in at the same time.



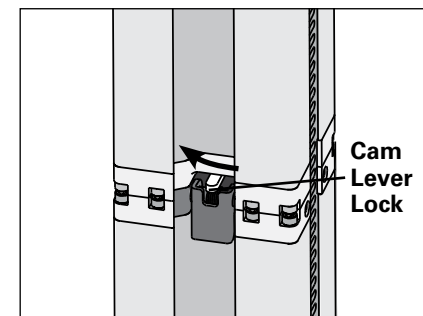
4. With the cam lever in the down position, be sure the cam lever lock springs automatically into the locked position.

Separating Mast Sections

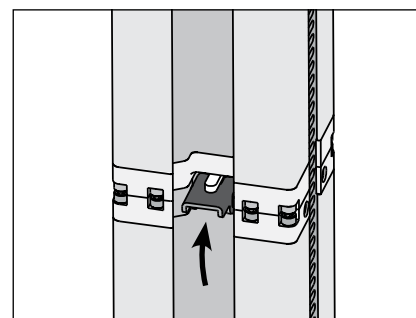
Figure 3-7 Separating Mast Sections



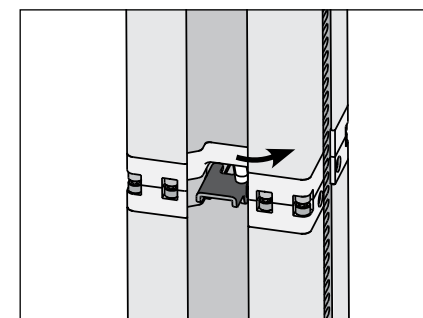
1. Press both cam levers inward to allow the cam lever lock to rotate freely.



2. Rotate the cam lever lock until it stops in the center position.



3. Release the cam levers to the open position.



4. Carefully return to the stowed position.

Unpowered Decent

The platform Manual Decent Crank (Figure 2-5) is provided to:

Allow the machine operator to lower the platform in the event that the drill motor loses power or contains insufficient power to lower the platform.

For emergency operation please see section 4 - Emergency Procedures.

3.5 Maneuvering & Transport

General

The machine may be manually maneuvered or transported in a vehicle disassembled or fully stowed.



WARNING

DO NOT ATTEMPT TO TRANSPORT OR MOVE MACHINE UNLESS THE PLATFORM IS FULLY LOWERED IN THE DOCKED POSITION. DO NOT MOVE THE MACHINE WITH PERSONNEL IN THE PLATFORM.

The machine may be moved around a worksite using the following methods:

- Fully assembled, pushed around the floor using the casters.
- Fully assembled tilted over on the all terrain tires.
- Disassembled, with each major component carried separately.

There are two ways to move the assembled machine:

Upright Maneuvering

- The machine can be pushed or pulled around using the swivel casters.
- The floor is required to be smooth, level and dry.
- There can be no significant weight on the machine while it is being rolled around.
- Be sure there are no overhead obstructions or hazards

NOTE: Be sure the swivel casters are in their unlocked position and free of debris on the wheel or in the mechanism.

Tilted Over Maneuvering

- For increased control, lock the rear casters before tilting back.
- Ensure that control of the machine will be maintained during tilt back and during transport.
- Be sure to maintain a firm grasp of the handle at all times during transport.
- Use the integrated step to complete the tilt back procedure.
- Familiarize yourself with the terrain and identify and avoid any overhead hazards before tilting back and transporting.

The machine can be tilted over and maneuvered as shown in Figure 3-8.

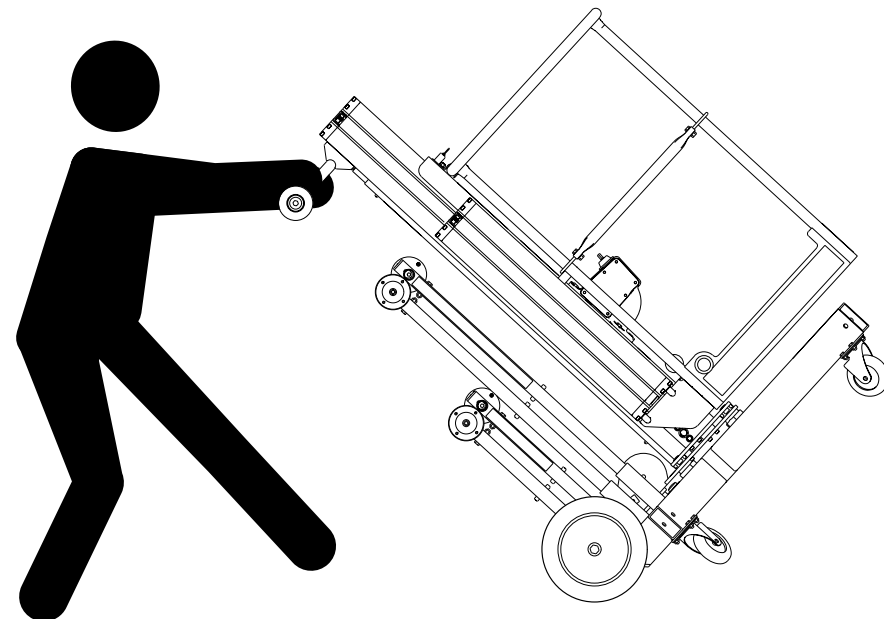


Figure 3-8 Maneuvering when tilted back

NOTE: Ensure platform is empty before tilting back.



CAUTION

ONLY ATTEMPT TO TILT THE UNIT BACK, OR RETURN TILTED UNIT TO THE UPRIGHT POSITION ON A FLAT AND LEVEL SURFACE, CLEAR OF ANY PERSONNEL. ENSURE A FIRM GRIP WITH TWO HANDS ON THE HANDLE AND ENSURE WEIGHT IS DISTRIBUTED TO AVOID THE USER OR THE MACHINE BEING THROWN BY THE MOVING WEIGHT OF THE MACHINE.



WARNING

TAKE PRECAUTIONS TO AVOID MANUAL HANDLING INJURIES. USE PROPER LIFTING TECHNIQUES; BEND AT THE KNEES ONLY, NEVER TWIST YOUR BACK WHEN HOLDING OR CARRYING A LOAD, AND/OR GET HELP.