RAM ELEVATORS + LIFTS

TRUS-T-LIFT SUPPLEMENTAL MANUAL #3

TALL TOWER TTL

Contents

Section 1: Introduction

This supplemental manual has been provided to walk you through the safe and efficient installation of a Trus-T-Lift Tall Tower Model. Please read this manual, as well as the main installation manual, thoroughly before installing and operating your lift. We recommend your lift and any add-ons be installed and serviced by a qualified technician.

Section 2: Safety Information

2.1: Symbols and Definitions

The following notations will be used through this manual to indicate areas that may present special risks or consideration.

DANGER

Danger messages indicate an imminently hazardous situation, which, if not avoided, could result in serious injury or even death.

Caution!

Caution messages indicate a potentially hazardous situation which, if not avoided, could result in serious injury, death, or damage to equipment.

Note

Note messages provide information, such as reminders, general information or additional guidelines that may provide guidance to the installer.

2.2: Additional Symbols

The following are additional symbols and conventions used through the manual:

(A)	**Detail callout**, used to call attention to a detailed mentioned in the body of the instructions.	1	**Step Callout**, labels which step the given diagram relates to

2.3: Safety Notes

Caution!

Read all instructions thoroughly before installation or use of this lift. Failure to follow the instructions in this manual and the associated manuals for testing and operation could result in serious injury or death. In addition, it will render RAM's warranty null and void.

Do not connect or disconnect wiring while equipment power is on. Before servicing, disconnect all power to the equipment. Failure to do so could result in significant injury or even death.

System may start unexpectedly upon application of power. Unpredictable equipment movement may result in serious injury or death. Use caution when applying power to the unit during the installation process.

RAM Elevators + Lifts Inc. (RAM) disclaims any and all liability for any personal injury or property damage resulting from the operation of a product that has been modified from the original design. No person or company is authorized to change the design of the product without written authorization by RAM.

Do not use an improper voltage source or a power source that provides poor quality power. This may present a significant FIRE HAZARD and/or permanent damage to the equipment.

Do not override any of the safety devices provided with the lift. Doing so will likely lead to serious injury or even death.

Ensure that there is nothing obstructing the carriage travel before operating the lift.

Ensure there is a minimum of 2in (50mm) and a maximum of 3in (75mm) clearance between any part or edge of the carriage that could possibly be used as a supporting handhold and any part of the fixed installation to prevent the trapping of a hand during the travel of the carriage. See RAM installation drawings for details.

The lift is intended for use by people and not to be used for cargo or other purposes. Lifting capacity is up to a maximum of 750 lb. unless otherwise noted on the lift and in RAM's supplied documentation. **(DO NOT OVERLOAD THE LIFT).** Overloading the lift will render RAM's warranty null and void.

This list of warnings may not be exhaustive, due care around equipment should be observed

Section 3: Tall Tower

3.1: Hoisting and Positioning

Materials

Tools		Components	
Name	#	Name	#
• Spreader Bar	1	• Lift Tower	1
• 500lb Capacity Lifting Straps	2		
• Lifting Device	1		

Instructions

Note that these steps are to be carried out after unpacking (section 3.4 in the main manual), for the sake of properly positioning the lift.

DANGER

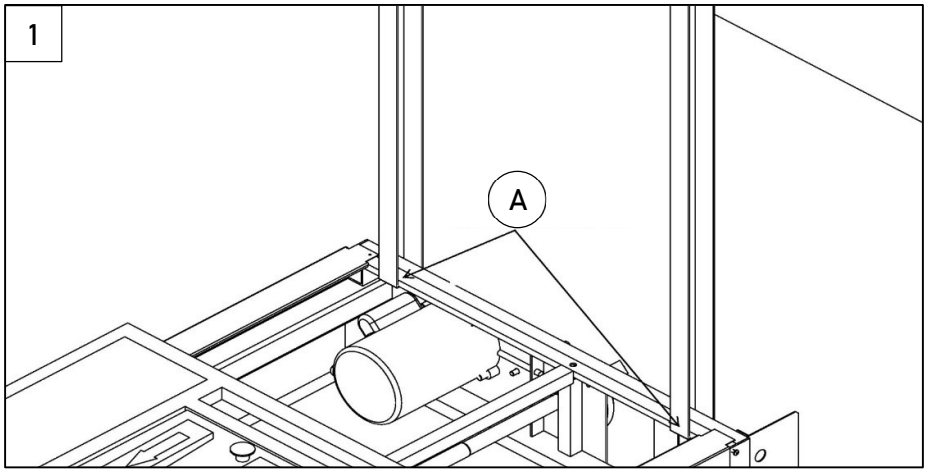
Under no circumstances should you attempt to lift or maneuver the tall tower by muscle alone.
Before beginning, make sure that the spreader bar and lifting device you are using are rated for the weight of your unit.

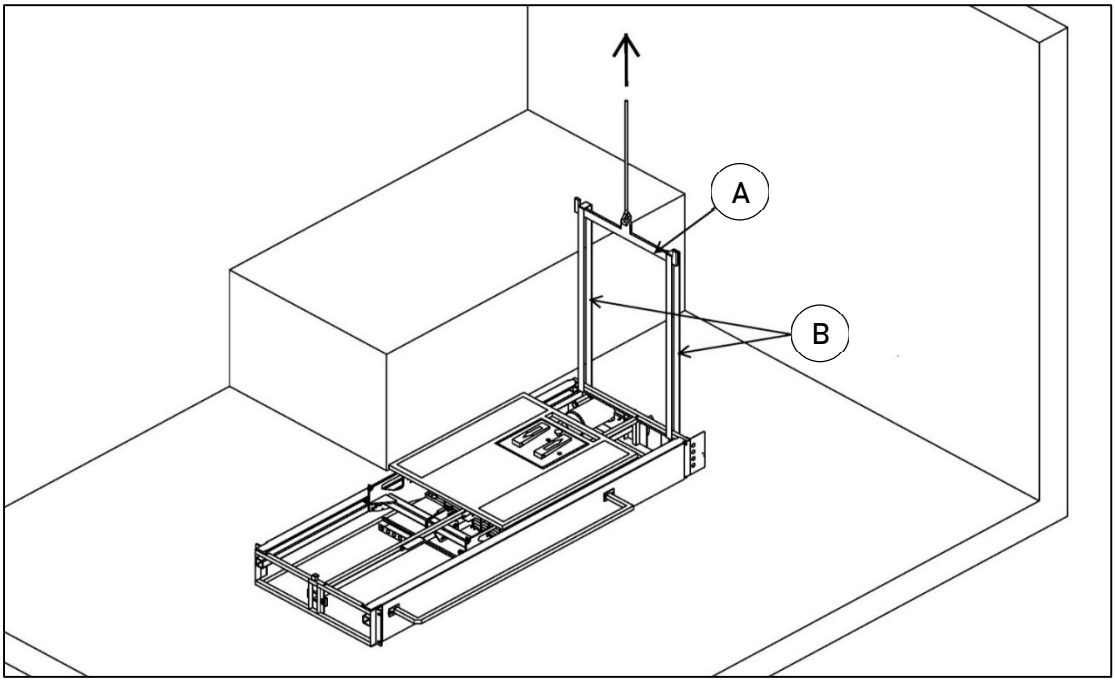
Not following either of these warnings can result in serious injury or death.

1) Wrap the straps around the front rectangular tube as shown in the below diagram **(A)**, approximately 5” in from the tower sides.

Caution!

Failure to use the recommended locations can produce unpredictable results. Confirm proper placement before attempting lift.

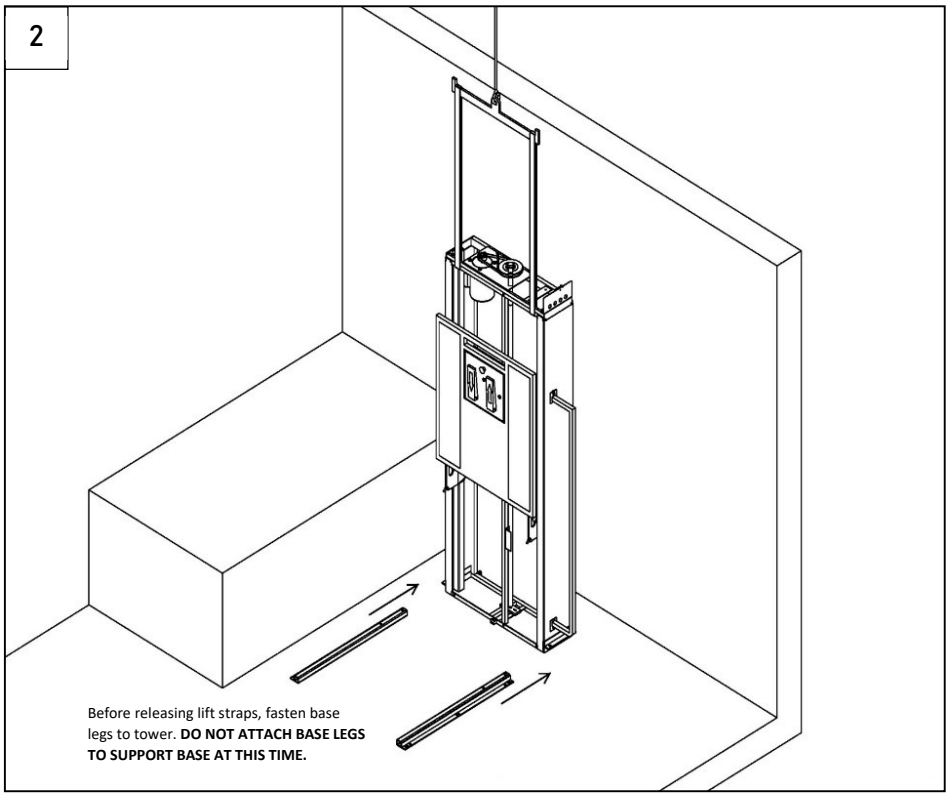




***Detail A**: Spreader Bar*
***Detail B**: 500lb Capacity Lifting Straps*

2) Lift the tower until it sits flat on the ground near the lift's final location.

3) Fasten the lift's legs onto the tower as described in the main Trus-T-Lift manual in section 4.1: "*Base Frame*" and continue the installation as normal.



3.2: Anchoring the Tower

Note

Do not anchor the lift tower to the wall unless you have completed sections 4.1 - 4.9 of the main Trus-T-Lift manual, as well as the installation any landing devices as described in *"Trus-T-Lift Supplemental Manual #2 – Landing Devices"*. These instructions are the last to be carried out before anchoring the base frame to the support base.

3.2.1: Top Tower Anchoring (Standard)

The standard method for anchoring a tall tower lift uses two pre-drilled holes in the back panel of the lift, a spacer block, and anchors.

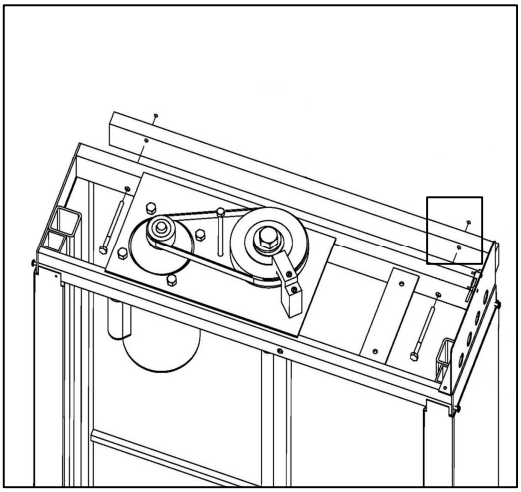
Note

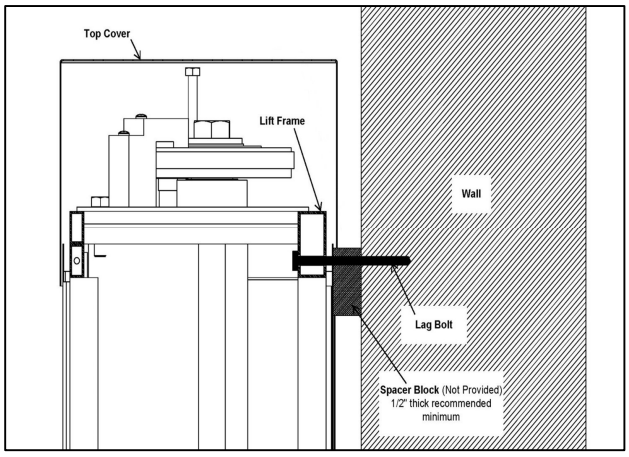
We recommend your spacer block be at least 1/2" thick as to not interfere with the top cover.

Instructions

1) Drill two holes in the spacer block using the 1/4" bit and the holes in the back of the lift as a guide. Ensure that the holes are positioned such that the block will not block the lift's top cover. **DO NOT DRILL INTO THE WALL WITH THE 1/4" BIT.** If pre-drilling pilot hole for the lag bolts, use the 1/8" bit.

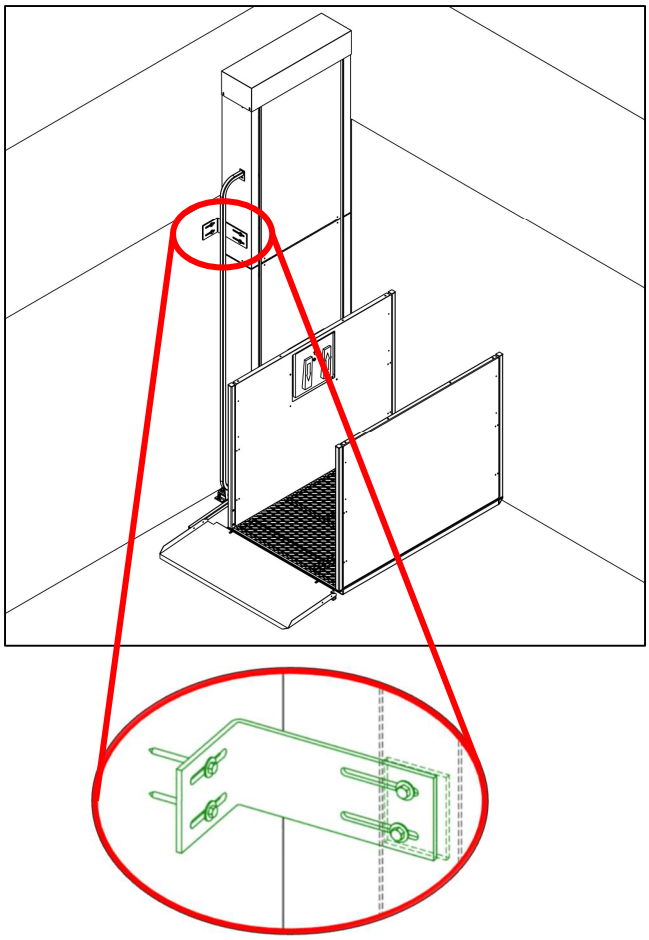
2) Proceed to fastening the tower to the wall with the lag bolts. Note that the provided lag bolts are made for wood; if fastening to something other than wood, use lag bolts meant for that material.





3.2.2: Side Tower Anchoring (Optional)

In the event that your support wall does not extend up to the mounting holes pre-drilled in the top of the tower, wall mounting bracket kits are available for purchase from RAM. This kit comes with the mounting bracket, magnetic spacer, bolts and anchors, and a drill bit and tap.



Note

To properly mount the tower to the support wall, the brackets cannot be mounted more than 12" below your top landing. If your support wall does not extend this far, you will likely need to use the 90 Degree Mounting Bracket (see section 3.2.3)

Instructions

1) Place the magnetic spacer inbetween the lift's main structural tube and the side panel. This spacer prevents the side panel from being warped.

2) Drill and tap holes centered on the main structural tube, through the side panel, spacer, and structural tube.

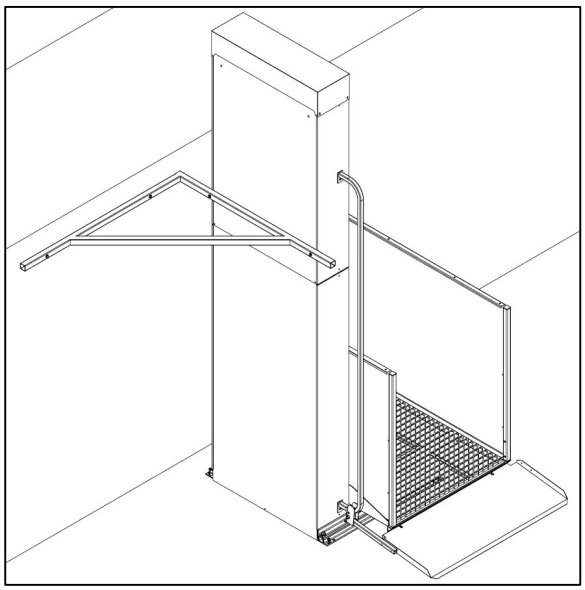
3) Use the provided bolts and washers to mount the bracket to the side of the lift.

4) Anchor the lift to your support wall using the provided anchors. As with the other methods, ensure your anchors are suited for the support wall material.

5) Repeat this process for the other side of the lift.

3.2.3: 90 Degree Tower Anchoring (Optional)

In the event that there is no suitable travel wall directly behind the lift, RAM offers a 90 Degree Tower Anchoring Bracket, which allows the tower to be mounted to the lift's travel wall.



Note

As with the previous method, this bracket must sit no lower than 12" below the lift's top landing.

Instructions

1) Drill and tap mounting holes centered on the rear structural tubes **(A)**, through the back panel and rear structural tubes.

2) Mount the bracket to the back of the lift using these holes and the provided bolts.

3) Anchor the lift into the wall using the other side of the bracket and the provided anchors. As with the other methods, ensure your anchors are suited for the support wall material.