TRUS-T-LIFT SUPPLEMENTAL MANUAL #4

EMERGENCY OPERATION DEVICES

Contents

Section 1: Introduction 1
Section 2: Safety Information 1
2.1: Symbols and Definitions 1
2.2: Additional Symbols 1
2.3: Safety Notes 2
Section 4: 90 Degree Manual Crank 3
Section 5: UPS 5
Section 6: Tower of Power 6

Section 1: Introduction

This supplemental manual has been provided to walk you through the safe and efficient installation of a Trus-T-Lift UPS, Tower of Power, and 90 Degree Manual Crank. 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.

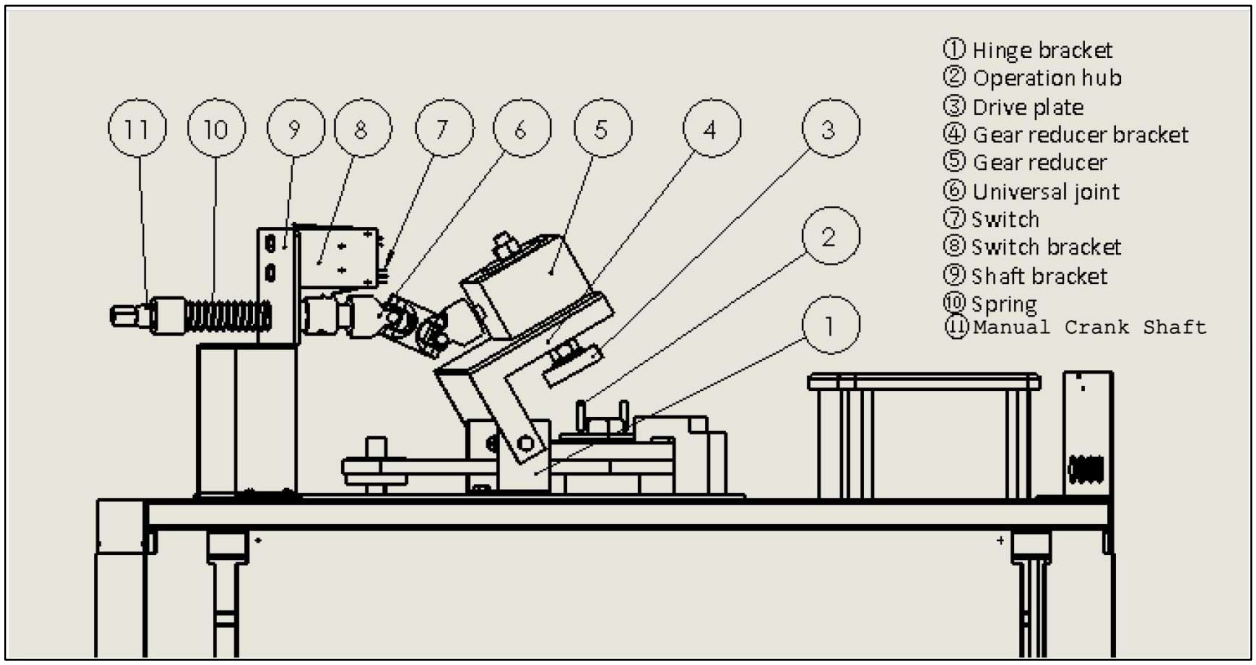
Ensure there is a minimum of 2in (50mm) and a maximum of 3in (75mm) clearance between any part or edge of the carriage that could possibly be used as a supporting handhold and any part of the fixed installation to prevent the trapping of a hand during the travel of the carriage. See RAM installation 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 4: 90 Degree Manual Crank

As an optional upgrade to the Trus-T-Lift, RAM offers a 90 degree manual cranking device that allow the lift to be cranked from the side without removing the top cover.



The above figure shows the normal position of the 90 Degree Manual Crank, disengaged. While the figure only shows the manual crank access on the left, the side the crank is on is specified at the time of order.

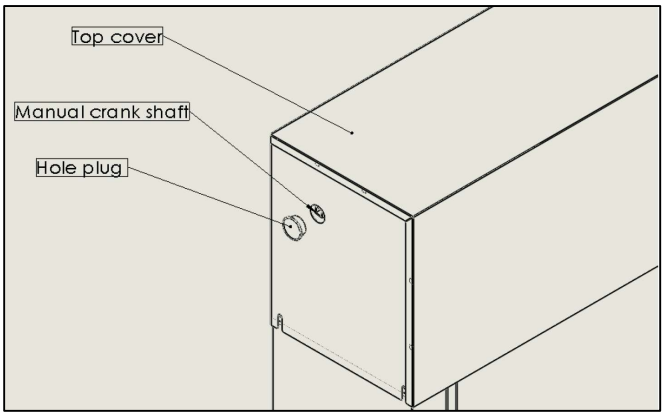
Caution!

Before running or maintaining the manual crank, always unplug the power cord to disconnect its power supply.

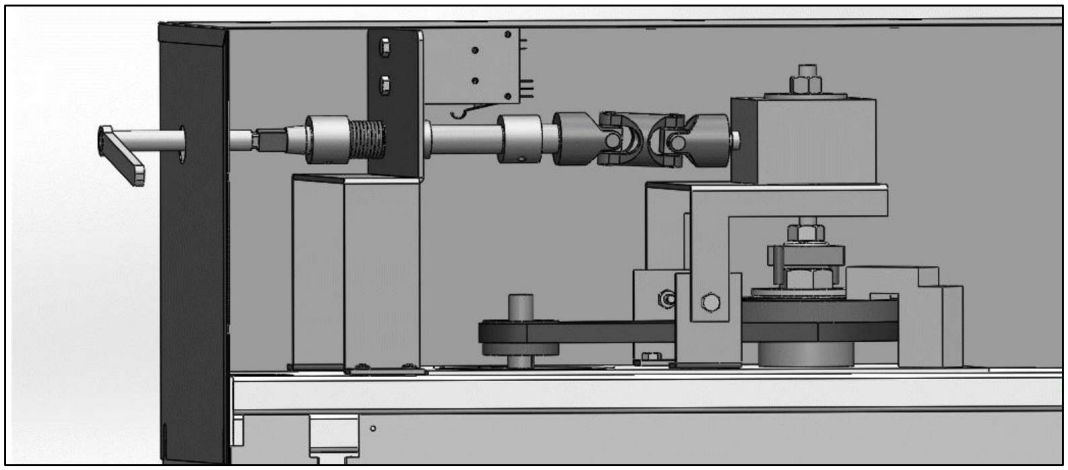
Operation Instructions

1) Remove the plug on the top cover that covers the manual crank shaft.

2) Insert the 3/8" ratchet and extension into the manual crank shaft and engage it with the receptacle at the end of the main drive shaft, as shown in the figure on the next page.



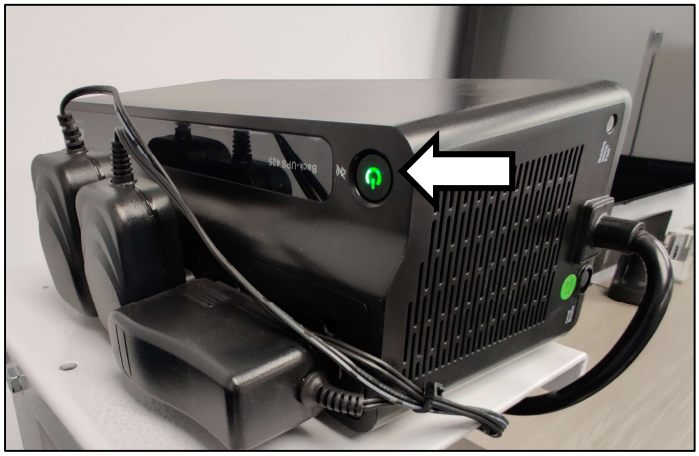
3) Push and hold the ratchet and extension into the manual crank's engaged position, as shown in the below figure, and rotate the shaft clockwise to lower the lift, and counter-clockwise to raise the lift.



4) After the lift platform has reached the desired landing, rotate the shaft in the opposite direction approximately 5 times to relieve the load on the gearbox, and then retrieve the socket ratchet and extension to disengage the crank.

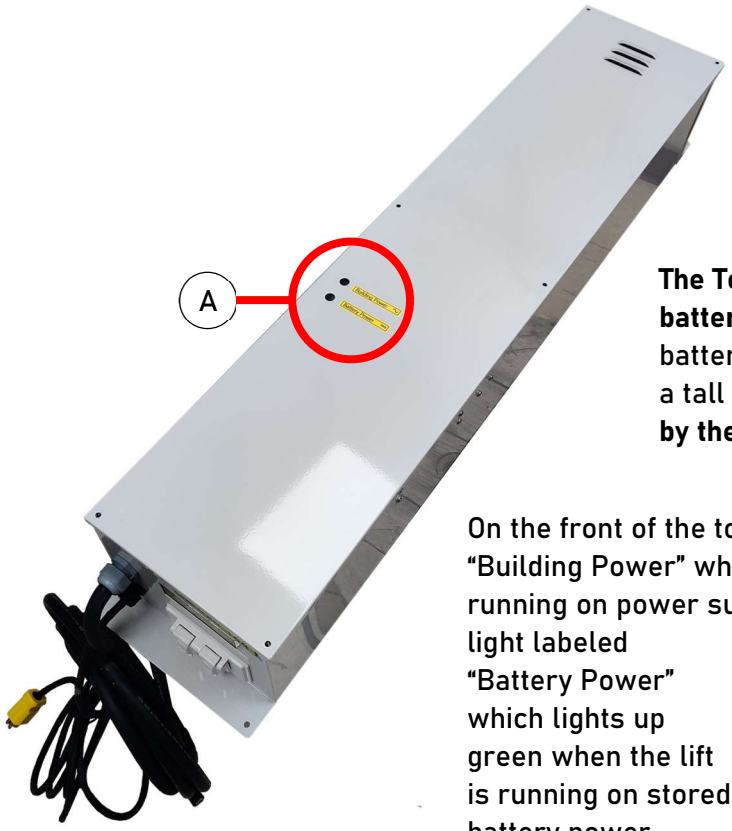
Section 5: UPS

If you ordered your Trus-T-Lift with a UPS, the unit will come with the UPS pre-installed under the top cover. To set up the UPS, press the power button located on the carriage side of the tower.



This UPS powers the emergency lighting, emergency alarm, and interlocks, **but does not power the lift**. In the envent of a loss of power, the lift will still need to be manually cranked to the nearest landing.

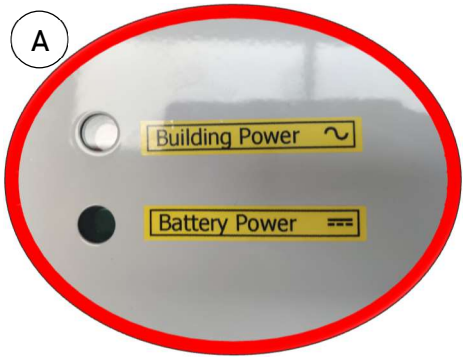
Section 6: Tower of Power



The Trus-T-Lift Tower of Power serves as a battery backup for the lift, supplying power to the unit when building power has been cut off or irregular.

The Tower of Power does not come with batteries. The tower uses 12V U1 Gel Cell batteries, two for a standard unit and 3 for a tall tower, all batteries **must be supplied by the installer**.

On the front of the tower there are two lights, one labeled "Building Power" which lights up red when the lift is running on power supplied by the building, and a second light labeled "Battery Power" which lights up green when the lift is running on stored battery power. When the lift is using the TOP, **the battery power light should always be on,** as the standard operating mode is to run on battery power. If the building power light is on, check that the batteries and inverter are functioning.



Installation

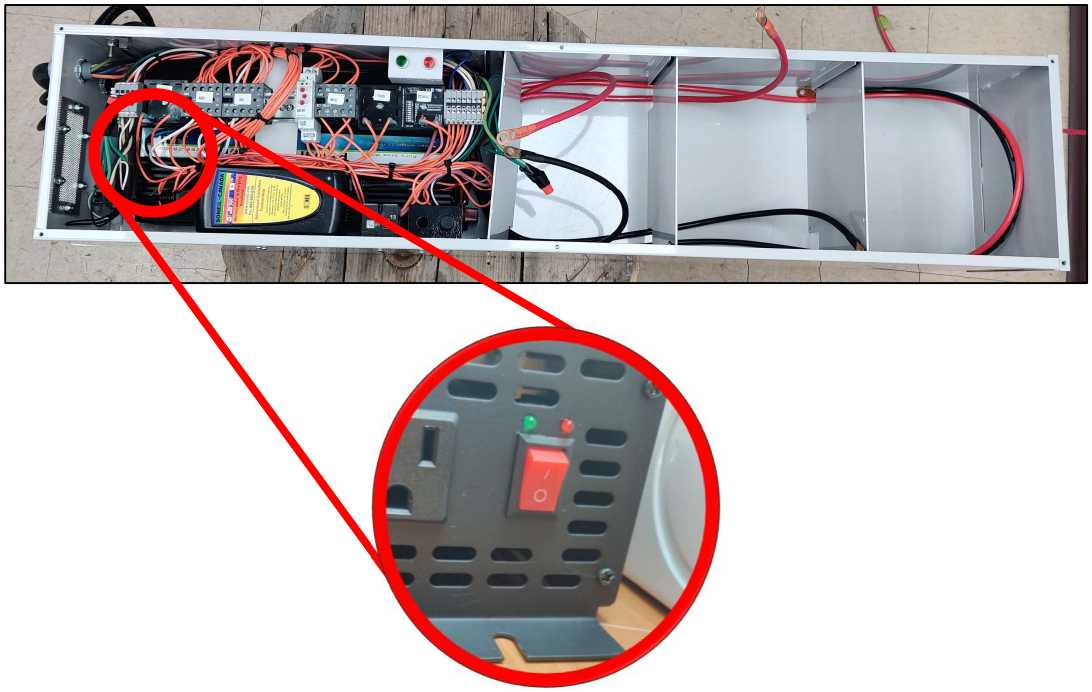
1) Mount the tower of power in a location where it will not be exposed to extreme cold or hot temperatures as this will lower the performance of the top

2) Remove the front cover. There will be two cables for each battery. For each battery, connect the red cable to the positive (+) battery terminal, and the black cable to the negative (-) battery terminal. Once hooked up, rest the batteries on the shelves inside the tower.

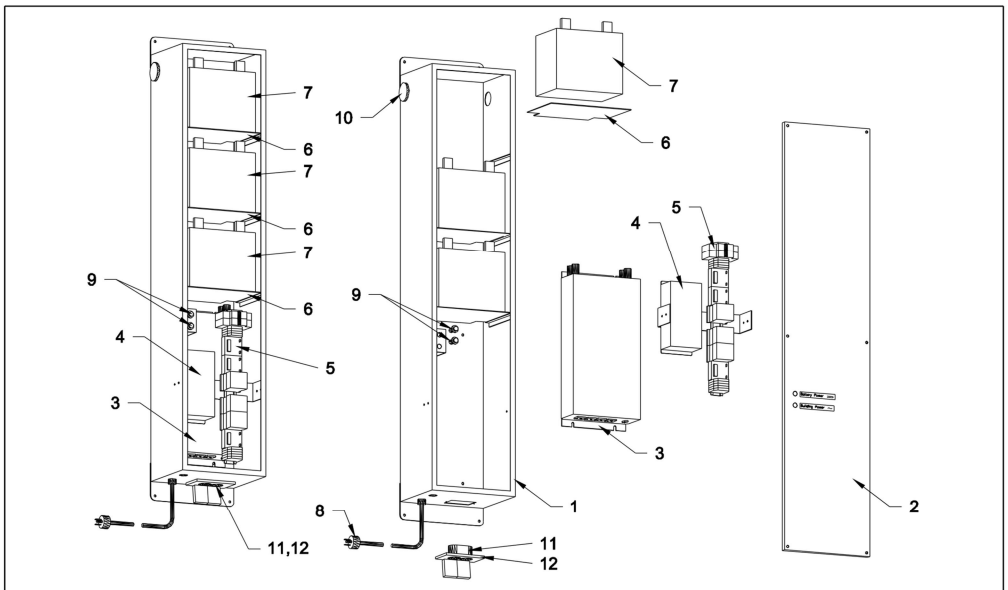
3) Plug the lift into the receptacle located on the bottom of the top enclosure

4) Plug the TOP into the building supply power

5) Turn on the inverter switch located on the bottom side of inverter.



6) Wait 105 seconds, and battery power light should come on. Once you confirm that the tower is operating correctly, reinstall the front cover.



TOWER OF POWER - EXPLODED VIEW

1. Enclosure - TE100
2. Enclosure Cover- TE100
3. 2500W Inverter - WSE2500W
4. Battery Charger - 1230S
5. Auto Power Switch - TE080 or TE082 or TE084
6. Removable Battery Shelf
7. 33 Amp/Hr 12VDC Gel Cell Battery - 8GU1
8. 110VAC Power Input Plug
9. Indicator lights - 55-455-0(Green), 55-452-0(Red)
10. Vent - 08400.9-00
11. Receptacle - 342.155
12. Receptacle Cover

TOP-Exploded.dwg
BH - May 19 - 2010