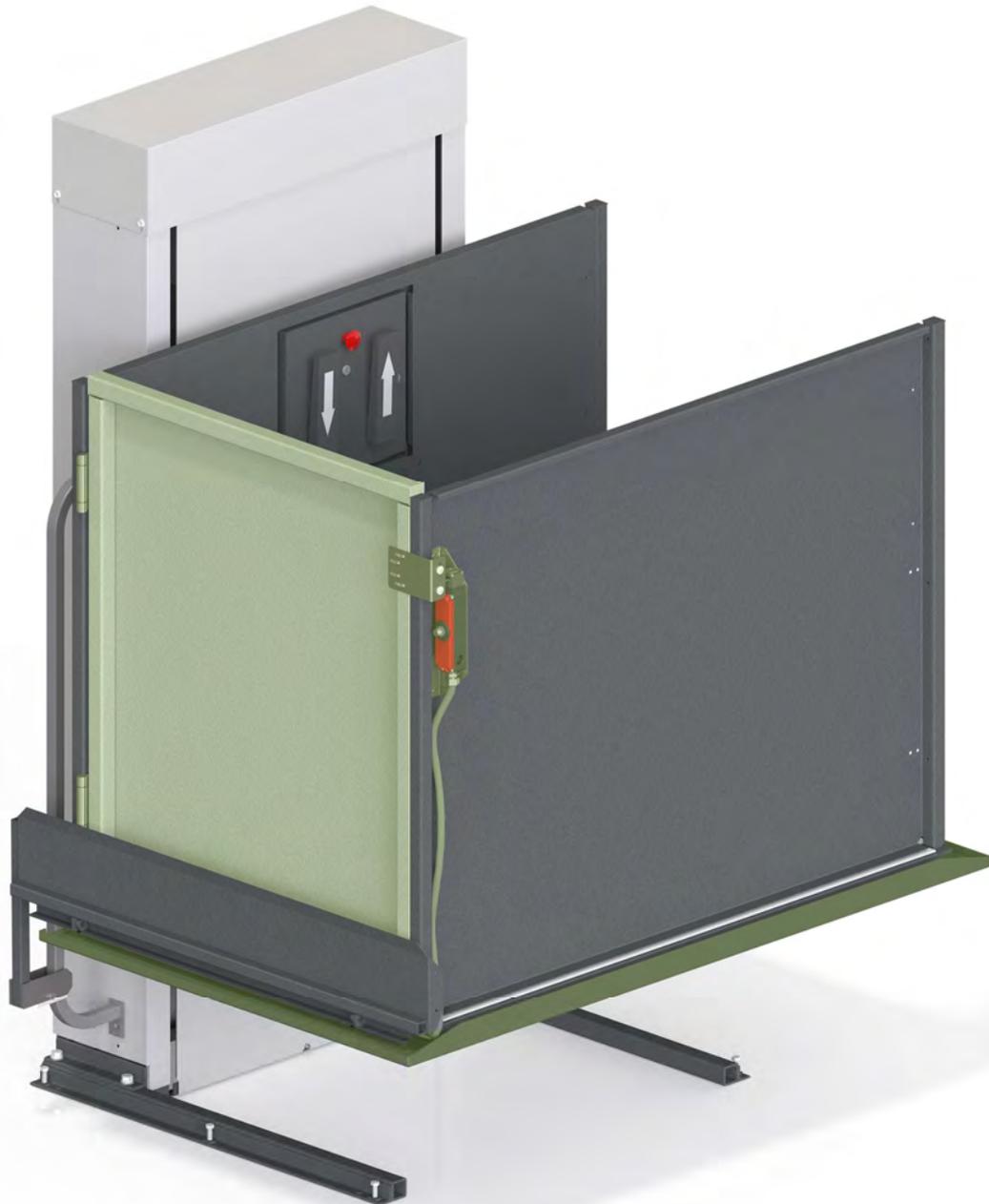


# FREEDOM LIFT SUPPLEMENTAL MANUAL #1



## SAFETY PAN & CARRIAGE GATE



## Contents

<b>Section 1: Introduction</b> .....	1
<b>Section 2: Safety Information</b> .....	1
2.1: Symbols and Definitions .....	1
2.2: Additional Symbols .....	1
2.3: Safety Notes.....	2
<b>Section 3: Safety Pan</b> .....	3
3.1: Installation .....	4
<b>Section 4: Carriage Gate</b> .....	6
4.1: Carriage Gate Diagram .....	7
4.2: Installation .....	8

## Section 1: Introduction

This supplemental manual has been provided to walk you through the safe and efficient installation of a Carriage Gate and Safety Pan. 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:

	<p><b>Detail callout</b>, used to call attention to a detailed mentioned in the body of the instructions.</p>		<p><b>Step Callout</b>, labels which step the given diagram relates to</p>
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## 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 the lift'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.

Freedom Lift Systems 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 Freedom Lift Systems.

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 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 supplied documentation. **(DO NOT OVERLOAD THE LIFT)**. Overloading the lift will render the lift's warranty null and void.

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

## Section 3: Safety Pan



### 3.1: Installation

#### Materials

Tools		Components	
Name	#	Name	#
• Combination Screwdriver	1	• Lift Assembly	1
• Wire Strippers		• Preferred Wire Terminators	

#### Instructions

Note that these steps are to be carried out after installing the toe plate (Section 4.5 in the main manual).

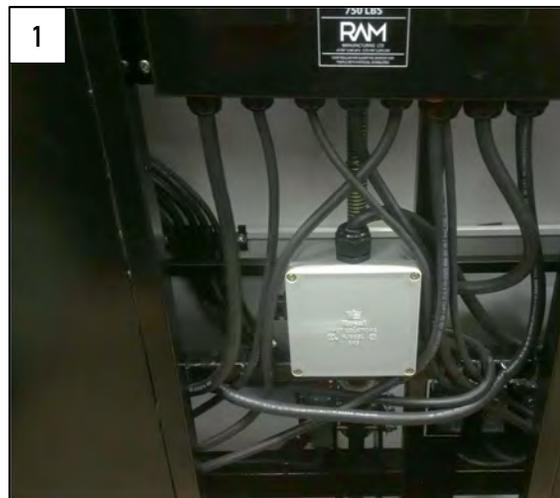
#### DANGER

Before installing and wiring the safety pan, unplug the unit/disconnect the power supply from the unit. Not doing so can lead to damage to the unit, and serious injury or death.

#### Note

If you are installing the safety pan after the lift's full installation is complete, you will need to remove the control wall and front cover to access the bottom junction box.

- 1) Wire the safety pan into the bottom junction box of the lift as per the provided electrical schematics and wiring diagram, using protective conduit as per the applicable electrical code requirements. This junction box is connected to the guide frame, as shown below.

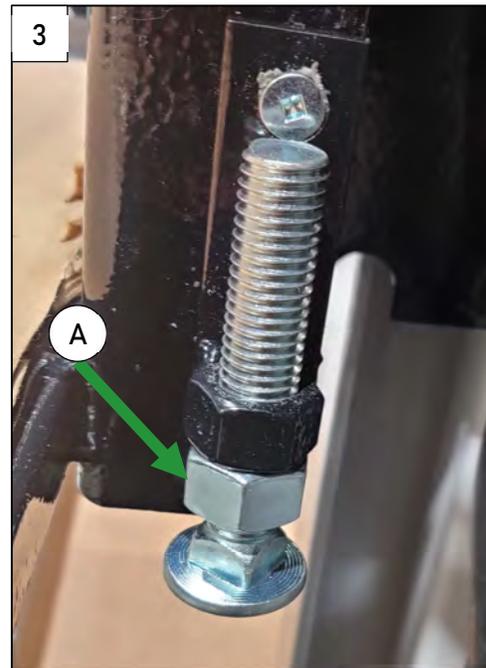
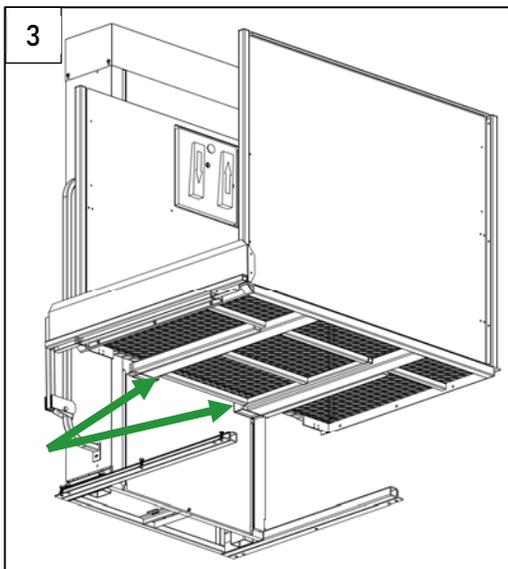


- 2) Re-connect the power to the unit and test the operation of the safety pan by running the lift down and tripping the switches in each corner and the center of the safety pan. When tripped, the lift should no longer run downwards.

**Note**

The safety pan comes shipped pre-installed to the lift; However, the pan may be misaligned on arrival, and will need to be manually adjusted so the pan will trip correctly. Tighten or loosen the straps on the corners of the pan until the pan is even, and will trip when pushed in each corner, and the center.

- 3) Set the platform's mechanical stops (A) evenly such that they will stop the platform on the ground prior to the safety pan being activated. To ensure proper function, test the position of the mechanical stops at full load



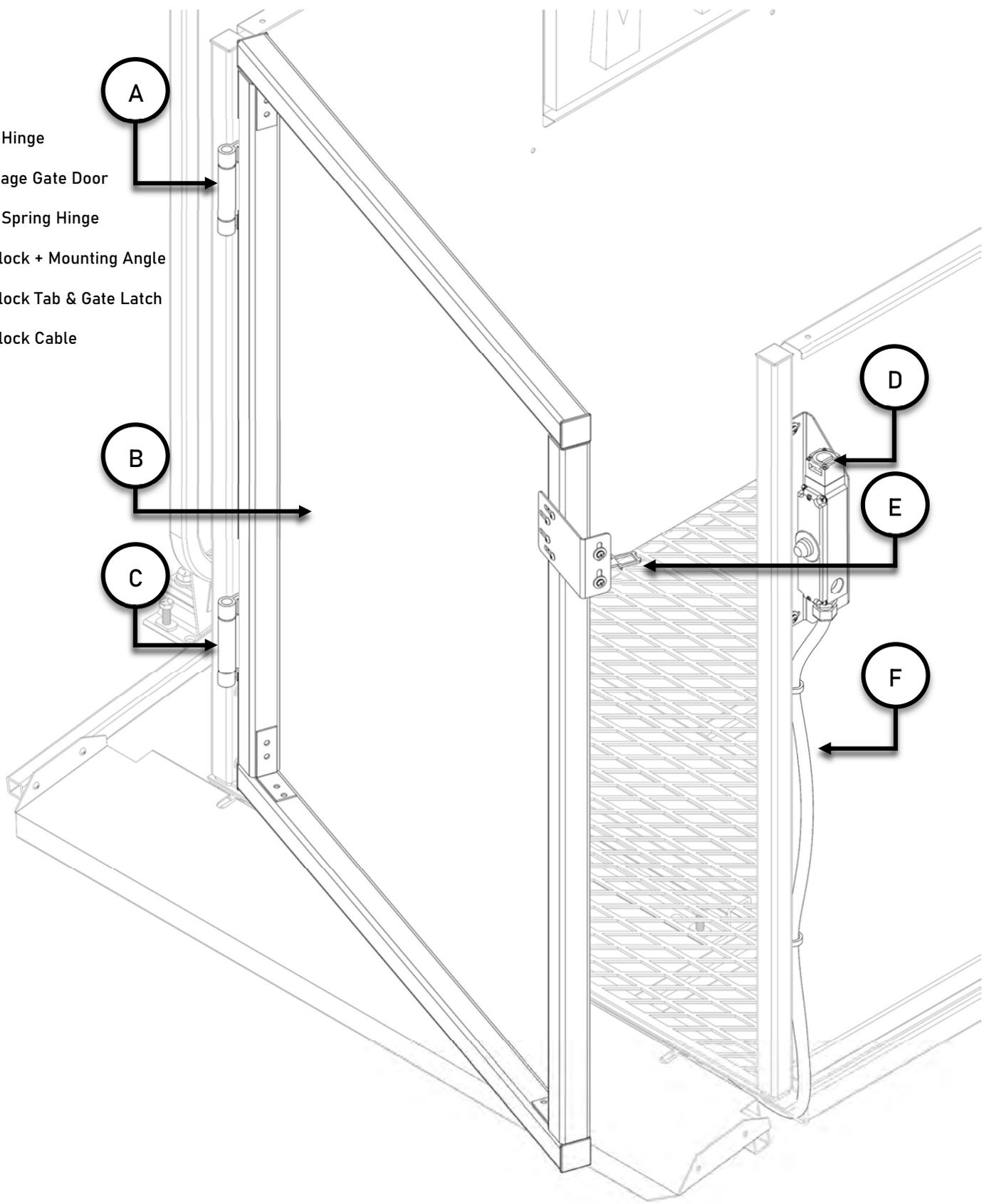
- 4) Continue installation as normal from section 4.6 in the main manual.

## Section 4: Carriage Gate



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### 4.1: Carriage Gate Diagram



- A. Gate Hinge
- B. Carriage Gate Door
- C. Gate Spring Hinge
- D. Interlock + Mounting Angle
- E. Interlock Tab & Gate Latch
- F. Interlock Cable

## 4.2: Installation

### Materials

Tools		Components	
Name	#	Name	#
• Combination Screwdriver	1	• Lift Assembly	1
• Wire Strippers	1	• Carriage Gate & Interlock	1
		• Nylon Tie Straps	4
		• Preferred Wire Terminators	

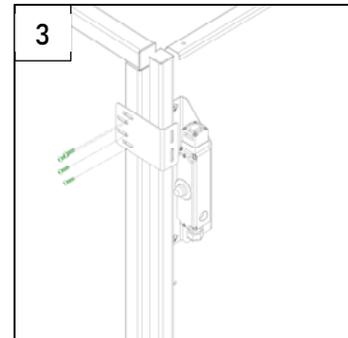
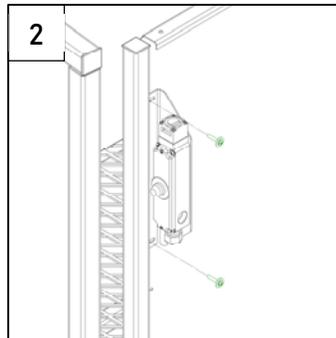
### Instructions

Note that these steps are to be carried out after mounting the carriage walls to the platform (Section 4.6 of the main manual).

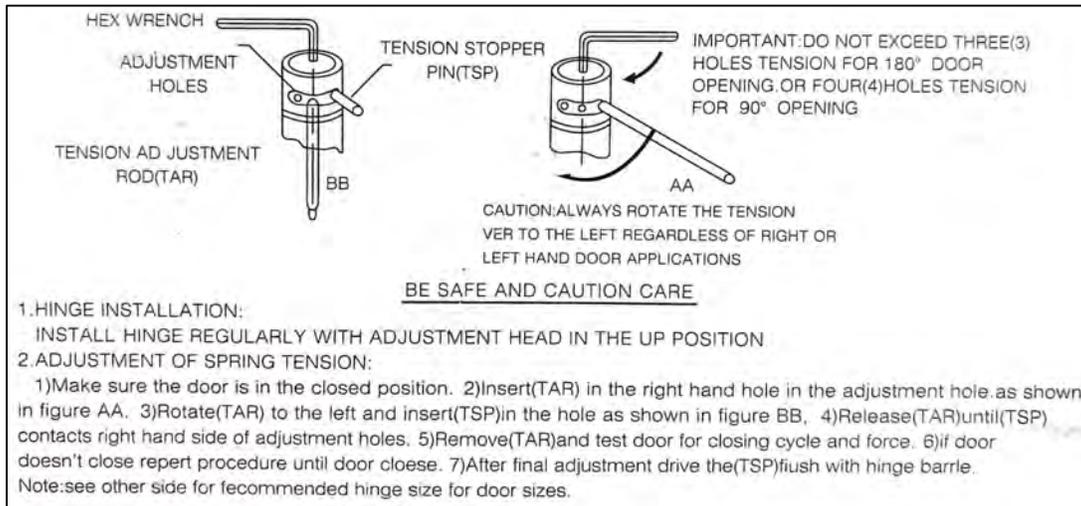
#### DANGER

Before installing and wiring the carriage gate, unplug the unit/disconnect the power supply from the unit. Not doing so can lead to damage to the unit, and serious injury or death.

- 1) Using the provided screws, fasten the carriage gate to either the handrail or the control wall, matching to the holes in the hinges.
- 2) Fasten the interlock to the side of the lift using the provided washers, screws, and lock nuts.
- 3) Load the carriage to 50% of the rated load and lower the carriage until the car is resting evenly on the support base (for cars with safety pan ensure car is resting evenly on mechanical stops ). Fasten the door gate latch and interlock key tab to the gate door making sure to line up with the interlock head when the gate closes.



- 4) Use the size 4 Allen Key, Tension Stopper, and Tension Adjustment Rod to adjust the spring hinge until the door will close on its own after being opened (See next page).



- 5) Run the interlock cable under the toe plate angle and fasten it there with provided nylon tie straps. If you have a safety pan, there are holes pre-drilled into the pan for the tie straps.



