

The logo for Freedom Lift Systems features a large, stylized, brown swoosh that curves from the top left towards the right. Below this swoosh, the word "FREEDOM" is written in a bold, dark blue, sans-serif font. Underneath "FREEDOM", the words "LIFT SYSTEMS" are written in a smaller, dark blue, sans-serif font.

FREEDOM
LIFT SYSTEMS

BY ACCESSIBILITY PROFESSIONALS

FREEDOM JOURNEY LIFTS
OWNERS OPERATION MANUAL



Customer Support: 1.877.947.7769
Email: apsupport@accessibilitypro.com

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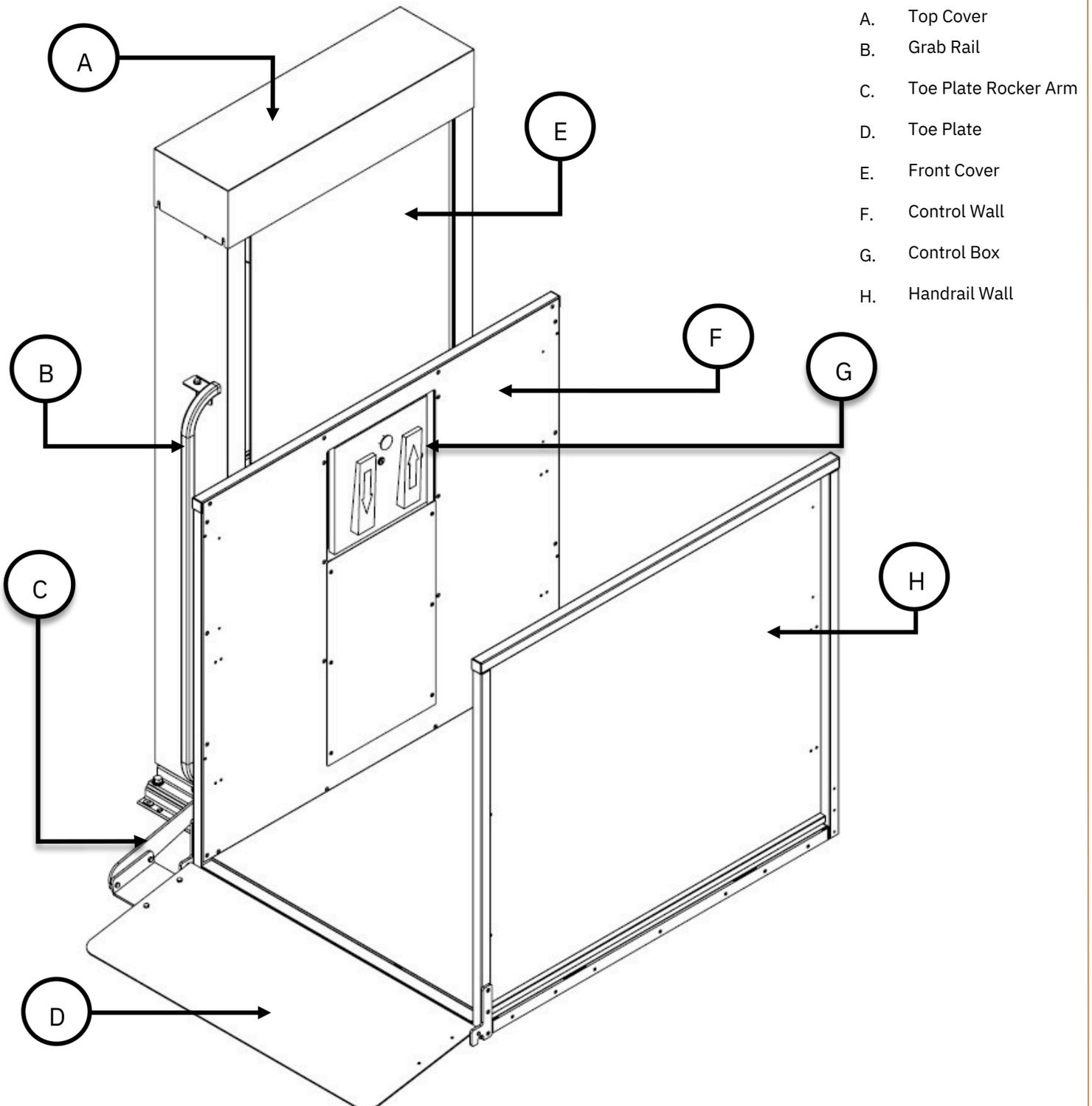
Section 1: Introduction

Thank you for selecting the Freedom Journey Lift. When operated properly, the Residential Lift is designed to provide years of trouble-free service. This manual is provided to walk you through safe operation of the lift. Please read this manual thoroughly before operating your lift for the first time. We recommend your lift be installed and serviced by a qualified technician.

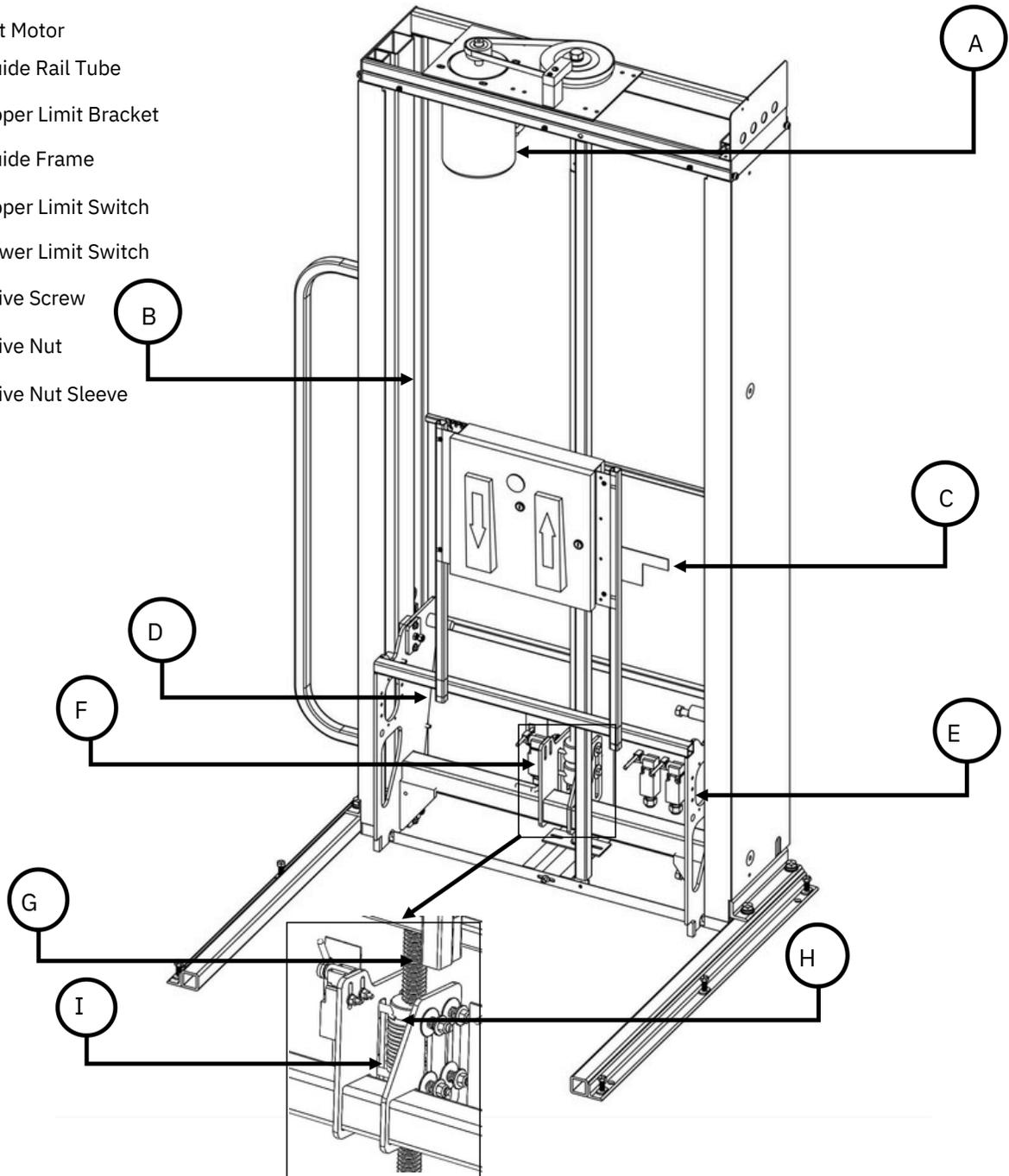
1.1: Online Resources

Additional resources such as product updates and installation videos are available online on our website freedomliftsystems.com

1.2: Lift Diagrams



- A. Lift Motor
- B. Guide Rail Tube
- C. Upper Limit Bracket
- D. Guide Frame
- E. Upper Limit Switch
- F. Lower Limit Switch
- G. Drive Screw
- H. Drive Nut
- I. Drive Nut Sleeve



1.3: Journey Lift Features

Maximum Weight Capacity:	750 lb (340 kg)
Travel Height	28" to 52" (71cm to 132cm)
Travel Speed	8 ft per minute
Carriage Types	- Straight Through (36x48, 36x54, 36x60) - 90 Degree Access (42x48, 42x54, 42x60)
Lift Power	110V 15A Standard Outlet
Drive Mechanism	ACME Screw Drive
Additional Features	- Zero-Load Start - Soft Touch Paddles - All-Electric Drive System - Manual Crank

Section 2: Safety Information

2.1: Safety 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

2.2: Additional Symbols

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

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

	<p>Detail callout, used to call attention to a detailed mentioned in the body of the instructions.</p>		<p>Step Callout, 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 following 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 Freedom Lift Systems' warranty null and void. Do not override any of the safety devices provided with the lift. Doing so will likely lead to serious injury or even death.

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 Freedom installation drawings for details.

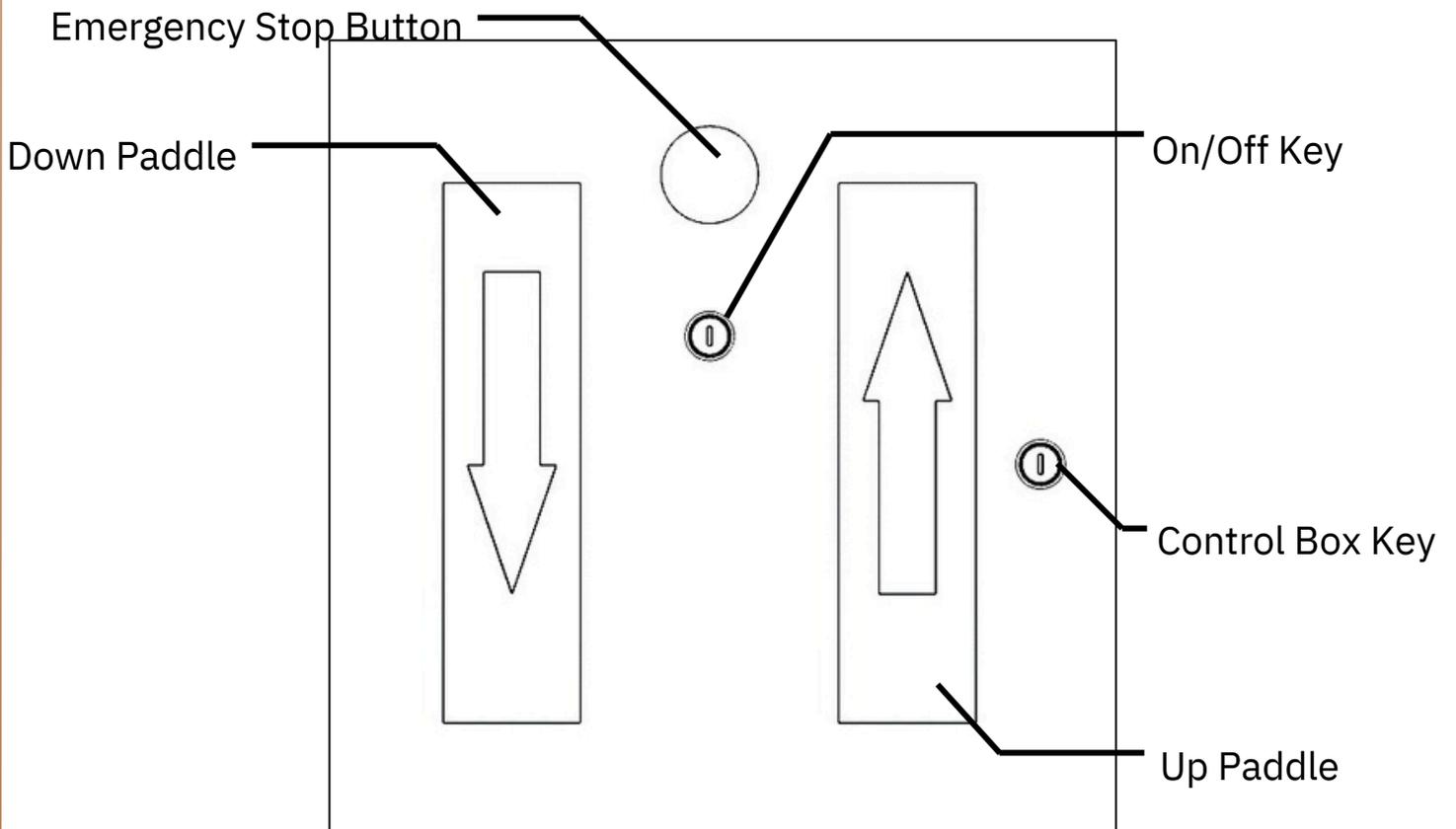
The lift is intended for use by people and not to be used for cargo or other purposes. Lifting capacity is up to a maximum of 750 lb. unless otherwise noted on the lift and in Freedom Lift Systems' supplied documentation. **(DO NOT OVERLOAD THE LIFT)**. Overloading the lift will render Freedom Lift Systems' warranty null and void. Ensure that there is nothing obstructing the carriage travel before operating the lift. 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'.

Failure to observe and complete the required maintenance for your lift product will render the warranty null and void and may present significant risk that could lead to injury or death.

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

Section 3: Operation

3.1: Controls Diagram



3.2: Operation Instruction

First, ensure that your On/Off key is in the On position (horizontal), otherwise the lift will not run.

To raise or lower the carriage press either the UP or DOWN paddle (see figure on previous page) and maintain continuous pressure on the paddle until the lift stops automatically at the landing.

If you decide to change the direction of travel of the lift before it reaches the landing, you must release the paddle and wait for the lift to come to a COMPLETE STOP before pressing the other paddle.

If you need to stop the lift before it reaches the landing, simply release the UP or DOWN paddle and the carriage will stop immediately.

You can also stop the lift by pressing the red STOP button (see above figure). To release, simply pull out the button.

Section 4: Emergency Operation

4.1: Manual Crank

In the event of an emergency where the power to the lift is cut off, the carriage can be manually cranked to the nearest landing.

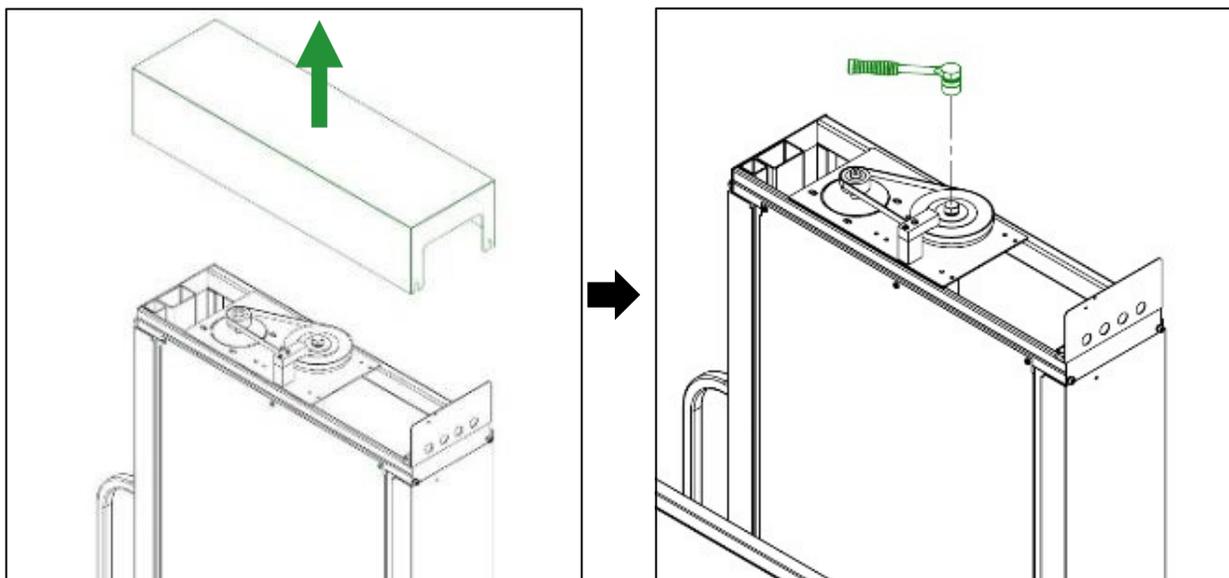
Note

These instructions are intended for a standard manual crank. If your unit has the upgraded/ optional 90-degree access manual crank, see section 5.1: “90-Degree Manual Crank”.

To use the standard manual crank, remove the top cover from the lift and position the manual crank ratchet provided with the lift on the main drive screw, as seen below.

To raise the lift, rotate the ratchet clockwise.

To lower the lift, rotate the ratchet counterclockwise.



Section 5: Optional Items

The following components are optional and do not come standard with the Journey Lift. This section offers a brief description of them and their operation.

5.1: 90 Degree Manual Crank



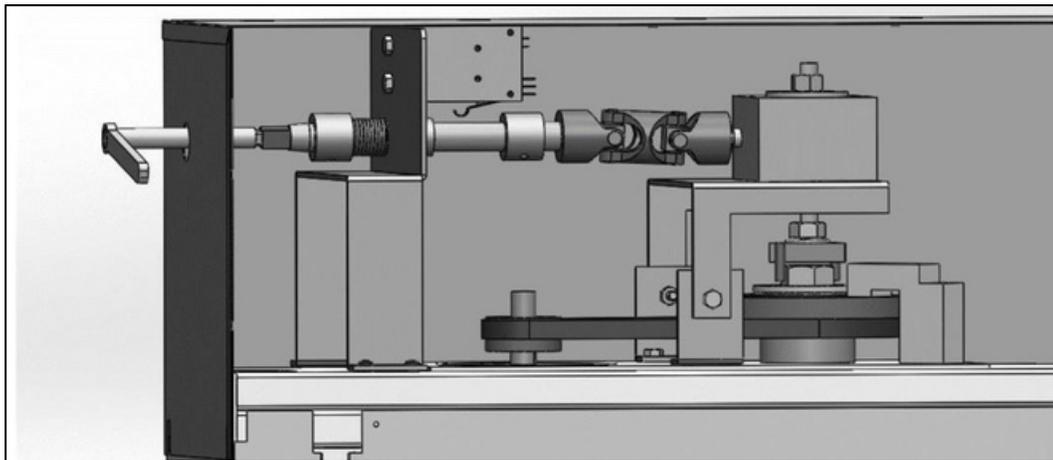
As an optional upgrade, we offer a 90-degree manual cranking device that allow the lift to be cranked from the side without removing the top cover.

Caution!

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

90 Degree Manual Crank Operation Instructions

- 1) Remove the plug on the top cover that covers the manual crank shaft.
- 2) Insert the 3/8" ratchet and extension included with your lift 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 counterclockwise 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.

5.2: Carriage Gate



If your lift is equipped with an optional carriage gate, it will prevent exiting the carriage when the lift is not at the correct landing.



In the event of an emergency, the gate's interlock can be manually opened by using the interlock key provided with your lift.

Note

Interlock keys are different to the lift keys that activate the lift and unlock the lift control box (See under 5.4)

5.3: Safety Pan



Lifts are equipped with a safety pan, the lift's motion will deactivate when something is detected underneath the platform.

If the safety pan is tripped by an obstruction, the lift immediately halts and will only move upwards. The lift will operate as normal as soon as the pan is no longer tripped and the obstruction is removed.

To test the operation of your safety pan, raise the lift to a height where you can easily access all corners of the pan, and push up the pan in each corner and the center, listening for each safety pan switch to trip. Then, with nothing underneath, run the lift downwards and purposefully trip the safety pan, the lift should immediately stop.

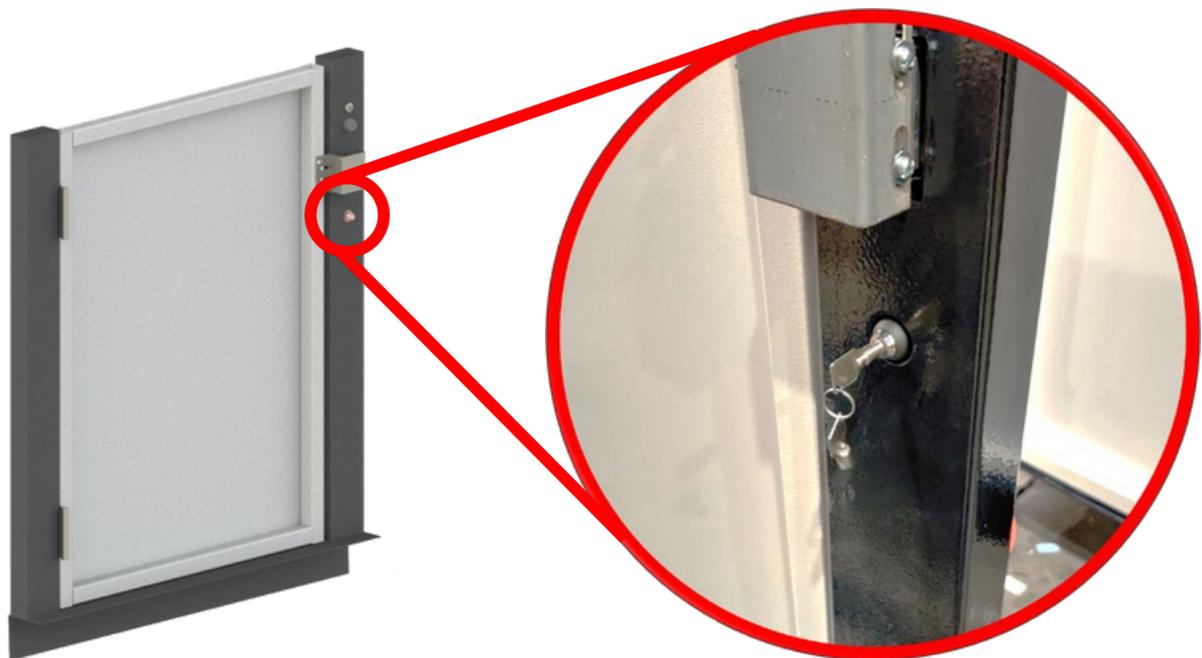
5.4: Landing Gates

Optional Lift landing gates are mounted to a landing, and bar entry to the lift unless the lift is at that specific landing.

In the event of an emergency, gate's interlock can be manually opened by using the interlock key provided with your lift.

Note

Interlock keys are different to the lift keys that activate the lift and unlock the lift control box.



5.5: Remote Call Station

A Call/Send station also referred to as a Toggle is used to call the carriage to the landing or to send the carriage to an alternate landing

Some call stations also have key to be used to disable the lift, which must be rotated into the ON position (horizontal) for the lift to run.



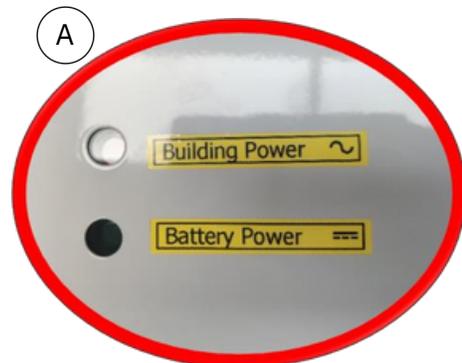
5.6: Tower of Power



The Journey 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. 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.



Section 6: Troubleshooting & Maintenance

6.1: Recommended Maintenance

Monthly Inspection (by owner or technician)

1. Inspect all gates/doors and ensure they are locked when the lift is not at the landing. Also check that the lift will not run unless the gates / doors are fully closed and locked once the platform is more than 2” (50mm) from the landing.
2. Inspect under pan safety device for correct operation
3. Verify E-Stop button is working
4. Inspect the toe plate and ensure it is operating smoothly and moving into the up position when the lift leaves the lower landing. Also test that it will resist load being applied to it (up to 125lb).

Annual Maintenance (by technician):

The following is a non-exhaustive list items of that should be checked as part of an annual maintenance in order to maintain safe operation of your lift. All previous monthly items + the following:

1. Inspect the Drive Nuts

Compare the amount of movement in the drive nuts from side to side and up and down without rotating the drive nut at all. If they feel overly sloppy or as though threads may be missing, then they need to be replaced.

DANGER

If either drive nut requires replacement, ensure that both drive nuts are replaced. Failure to replace both drive nuts at the same time may result in serious injury or death.

2. Inspect the Drive Screw

Inspect the drive screw for any irregularities, sharp edges or foreign objects and dirt caught in the threads. Be sure no damage exists to the drive screw and that it is entirely clean of debris. If the screw is damaged or heavily corroded, replace the drive screw **AND DRIVE NUTS**.

3. Clean and Re-Lubricate the Drive Screw

In order to lubricate the drive screw you must remove the main front panel and a carriage guide frame panel. Use a clean rag to wipe all of the grease off of the screw. Liberally apply Mobilith SHC-460PM grease on the drive screw.

4. Inspect the Drive Belt

Remove the top cover and inspect the drive belt for wear. A small amount of black rubber bits below the belt is normal. If there is any significant sign of wear to the belt, replace.

5. Inspect for Surface Damage and Complete Touch Ups to Coatings

Wear and tear may occur on powder coated steel surfaces resulting in scratches. Small points of damage can be wire brushed and touched up with the small touch up paint containers that comes with each Freedom Lift that ships out. This will extend the life and cosmetic look of you lift and is particularly important in any environments that are coastal or potentially corrosive.

6. Inspect Cables

Tears in insulation should be patched where possible and if bare wire is present new replacement cables should be purchased and installed by a qualified technician. Consult your dealer for spare parts should they be required.

7. Inspect for Correct Functioning of Toe Plate – If Applicable

The toe plate actuation mechanism may be critical to access and both the mechanism and the toe plate itself should be examined. If there are any concerns adjust the mechanism or repair/ replace it.

8. Re-Check Platform Alignment and Clearances

Buildings and construction “settles” over time and adjustments may be required to ensure good clearances and alignment of the lift. Consult the appropriate sections of the installation manual or the technical support team for guidance.

9. Carry Out the Testing Detailed in the Following Section

6.2: Testing

Once the lift has undergone all necessary maintenance by a qualified technician, the following tests should be carried out to verify that all systems and safety functions are active and functional.

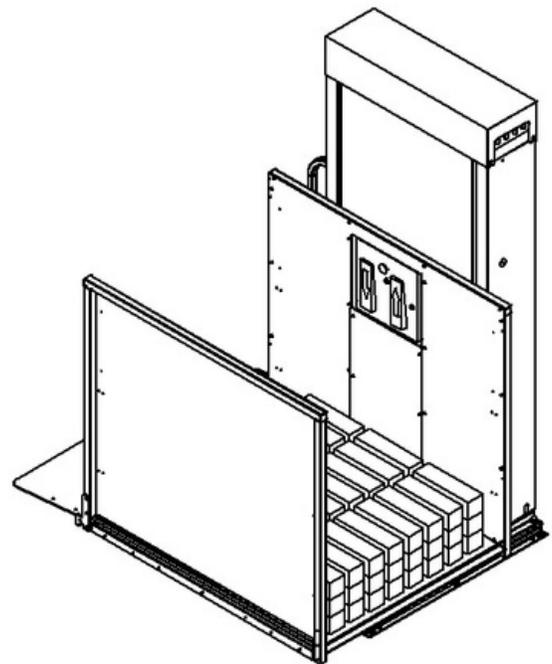
6.2.1: Full Load Testing

Every lift should be weight tested once the installation for mechanical and electrical items is complete to ensure that the lift is operating correctly. All lifts are tested at the factory, but they are then disassembled and shipped to sites across North America.

Weight testing comprise 2 elements:

1. Maximum Lifting capacity – apply full load (750 lb) to the lift in the center of the platform, the lift should travel to the upper platform, the lift should travel to the upper landing without hesitation and stop within 3/8" of the upper landing - repeat two or three times.

2. Overload braking - North American Safety code requires that a lift is capable of braking and holding 125% of the rated load. To test this, start with the lift at the upper landing and apply 125% of rated working load (950 lb). Lower the lift and stop several times to ensure that the lift will brake without unintentional movement. **The lift is not required to lift 125% (950 lb) of working load.**



6.2.2: Upper Limit and Upper Final Limit Switch

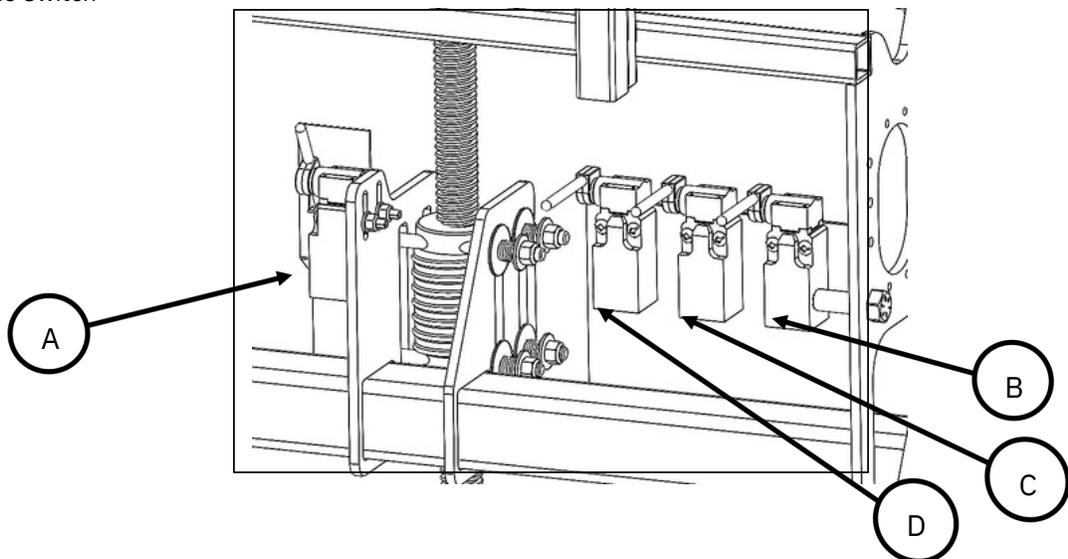
Each lift is equipped with an “upper limit switch” and an “upper *final* limit” switch.

The upper limit switch indicates to the control circuitry that the lift has reached the upper landing and stops the lift. This is set during the installation process.

The upper *final* limit switch is a safety feature which indicates to the control circuitry that the lift has gone *higher* than the upper limit switch. It should not engage under normal operation and indicates that there is a problem with the lift and stops the lift from moving either up or down.

To test the upper final limit switch, raise the lift to the upper landing (where the upper limit switch engages, and the lift automatically stops). Using the manual crank, continue to raise the lift above the upper landing (approximately 2”) until the upper final limit switch engages. Attempt to run the lift up *and* down. **The lift should not run in either direction.** When the test is complete, use the manual crank to lower the lift until the upper final limit switch disengages and the lift can once again be lowered and raised.

- A. Lower Limit/ Nut Failure Switch
- B. Upper Final Limit Switch
- C. Upper Limit Switch
- D. Bypass Switch



6.2.3 Lower Limit / Nut Failure Switch

Verify that as the mechanical stops contact the support base, the limit switch is engaged with the red safety bracket and that this cuts power to the motor.

Also verify that the drive screw stops spinning prior to the drive nut bolts hitting the end of the slots in the guide frame.

6.2.4 Bypass Switch

The bypass switch is intended to bypass the upper/lower landing gate and car gate interlocks as the lift approaches the landings. Verify that the landing and car gates are unlocked as the lift nears the upper/lower landings but locked during travel.

6.2.4: Additional Testing Notes

- Toe Plate

If your lift has a toe plate ramp you should verify that the ramp deploys properly and makes full contact with the lower landing. The action should be smooth and consistent without binding or jerking of the motion.

When the toeplate ramp is in the up position both the ramp and the linkage mechanism should resist up to 125lb of force without deforming.

- Emergency Stop

Verify that is the E-stop button is pressed then the lift will not operate.

- Key Switches

Verify that when a key switch at each landing or on board the lift is turned to the off position the corresponding buttons and control paddles do not operate the lift.

6.3: Troubleshooting

Problem	Possible Solution
Lift runs up but not down	<ul style="list-style-type: none"> • Check the lower-limit/nut-failure switch. If it is activated and the nuts are compressed together, the main drive nut has failed. Replace both drive nuts. • Check that it is free floating and that the switches in each corner and the center are not tripped. • Check that it is wired correctly into the junction box located behind the control wall, see “Safety Pan and Carriage Gate” supplementary manual.
Lift will not run up or down	<ul style="list-style-type: none"> • Check that the lift is plugged in to the outlet and test and that there is power to the outlet using another plugin device (lamp or small electrical appliance). • Ensure that the power key is turned clockwise to the horizontal “on” position • Check that the emergency stop button is pulled out by pushing and pulling the button to test that it is operating properly. It should snap when pushed in and pulled out. • Check that the top cover switch is properly depressed when the top cover is on. <p>If you have any interlocks, check that they are in the ‘locked’ position, see “Landing Devices” supplementary manual.</p>

Problem	Possible Solution
Lift runs normally, but interlocks will not unlock	<ul style="list-style-type: none"> • Check that floor limit switches are activating. Note that the lower limit switch only activates when the load is removed from the drive. • If you have a UPS, check that the UPS is turned on.
Lift won't raise full capacity and is vibrating and/or squealing when going down	<ul style="list-style-type: none"> • Clean the guide rail surfaces using Simple Green cleaner • Clean and grease screw using Mobilith SHC 460PM