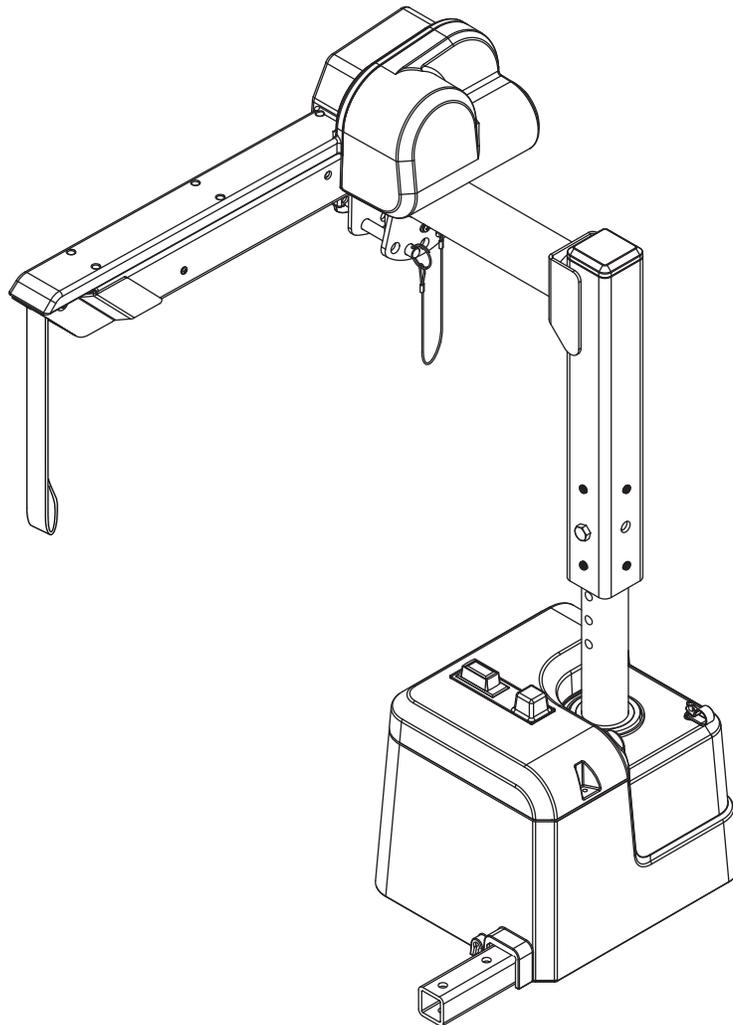


COMMANDER 400



OWNER'S MANUAL

SAFETY GUIDELINES



WARNING! An authorized Pride Provider or qualified technician must perform the initial setup of this lift and must perform all of the instructions in this manual.

The symbols below are used throughout this owner's manual and on the product to identify warnings and important information. It is very important for you to read them and understand them completely.



WARNING! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage, or malfunction. On the product, this icon is represented as a black symbol on a yellow triangle with a black border.



MANDATORY! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol on a blue dot with a white border.



PROHIBITED! These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a black symbol with a red circle and red slash.

Please fill out the following information for quick reference:

Pride Provider: _____
Address: _____
Phone Number: _____
Purchase Date: _____ Serial Number: _____

NOTE: This owner's manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make changes as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased. The latest/current version of this manual is available on our website.

NOTE: This product is compliant with WEEE, RoHS, and REACH directives and requirements.

NOTE: The Commander 400 and its components are not made with natural rubber latex. Consult with the manufacturer regarding any after-market accessories.



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INFMANU4414/Rev B/June 2013

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I. INTRODUCTION

Welcome to Pride Mobility Products. Congratulations on the purchase of your new lift system. The lift system design combines the most advanced state-of-the-art components with modern, attractive styling. We are certain that the design features and trouble-free operation will add convenience to your daily living and ensure complete satisfaction.

At Pride, your safety is important to us. **Please read and follow all instructions in this manual before operating your lift system for the first time.** These instructions were produced for your benefit. Your understanding of these instructions is essential for the safe operation of your new lift system.

Pride is not liable for damage to property or personal injury arising out of the unsafe use of a lift system. Pride is also not liable for any property damage or personal injury arising out of the failure of any person and/or user to follow the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other lift system related literature issued by Pride or contained on the lift system itself.

INTERNET AND PRIVATE PURCHASES

If you purchased your product over the Internet or from a previous owner and you have any questions about the safe use and/or maintenance of the product, please visit the Pride web page at **www.pridemobility.com** or contact your authorized Pride Provider.

PURCHASER'S AGREEMENT

By accepting delivery of this product, you promise that you will not change, alter, or modify this product or remove or render inoperable or unsafe any guards, shields, or other safety features of this product; fail, refuse, or neglect to install any retrofit kits from time to time provided by Pride to enhance or preserve the safe use of this product.

SHIPPING AND DELIVERY

Before using your lift, make sure your delivery is complete as some components may be individually packaged. If you do not receive a complete delivery, please contact your Pride Provider immediately. Where damage has occurred during transport, either to the packaging or content, please contact the delivery company responsible.

INFORMATION EXCHANGE

We want to hear your questions, comments, and suggestions about this manual. We would also like to hear about the safety and reliability of your new lift system, and about the service you received from your authorized Pride Provider.

Please notify us of any change of address, so we can keep you apprised of important information about safety, new products, and new options that can increase your ability to use and enjoy your lift system. Please feel free to contact us at the address below:

USA:

Pride Mobility Products Corporation
182 Susquehanna Ave.
Exeter, PA 18643-2694

Canada:

Pride Mobility Products Company
380 Vansickle Road
St. Catharines, Ontario L2R 6P7

NOTE: If you ever lose or misplace your copy of this manual, contact us and we will be glad to send you a new one immediately.

II. SAFETY

PRODUCT SAFETY SYMBOLS

The symbols below are used on the lift system to identify warnings, mandatory actions, and prohibited actions. It is very important for you to read and understand them completely.



Read and follow the information in the owner's manual.

Maximum lifting capacity.

Do not sit on mobility product while operating the lift system or during transport.



Pinch/Crush points created during assembly and/or operation. Keep hands/fingers away from moving components during operation.



Battery posts, terminals and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling.



Do not extend the lifting strap past the warning label located on it.

II. SAFETY



Disposal and recycling—Contact your authorized Pride Provider for information on proper disposal of your Pride product and its packaging.



Keep tools and other metal objects away from battery terminals. Contact with tools can cause electrical shock.



Do not allow unsupervised children to play near the lift while the batteries are charging.



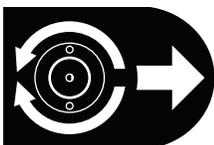
Corrosive chemicals contained in battery.



Explosive conditions exist!



Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.



Manual Override

Caution! Moving parts!



II. SAFETY

LIFTING CAPABILITIES

The lift system is designed to lift a maximum weight of 400 lbs. (181 kg). Under no circumstances should the lift system be made to exceed this weight limit. Subjecting the lift system to the strain of lifting more than it is designed to may cause it to fail, resulting in damage to the mobility product and/or injury to the lift operator. Refer to the mobility product specifications for information on the overall weight of the mobility product before lifting with the lift system.



WARNING! Exceeding the maximum lifting capacity of 400 lbs. (181 kg) may cause the lift system to fail, resulting in damage to the mobility product and/or injury to the lift operator.



MANDATORY! Adding accessories, oversized batteries, or a different seat will increase the weight of your mobility device. Verify with your authorized Pride Provider that the total weight of your mobility device, including additions, DOES NOT exceed 400 lbs. (181 kg).

INSTALLATION

Your lift system is an exterior-rated lift designed for installation into vehicles. Read and fully understand the installation instructions provided in this manual and related literature for your brand of vehicle before installing the lift system. The distance between the top of the boom-arm and the mobility product should not exceed 50 in. (127 cm) when the boom-arm is fully extended.

LIFTING NON-PRIDE PRODUCTS

The lift system is an extremely versatile device, which users may employ to lift items other than Pride products. Pride has no control over such use, nor can Pride anticipate every possible use to which a lift system may be put. Operating the lift system outside of the safe limits as discussed in this manual or using the lift system to lift any item deemed by Pride to be incompatible with the lift system is done at the operator's own risk, and Pride accepts no liability for damage or injury resulting from such use.

PRE-LIFT INSPECTION

Inspect the lifting strap of the lift system before every use for twisting, fraying, and signs of wear. If signs of wear become evident, have the strap replaced by your authorized Pride Provider.



WARNING! A frayed or worn lifting strap can snap, resulting in damage to the mobility product being lifted and injury to the lift operator.

OPERATOR POSITIONING

Keep hands clear of the lifting strap while the lift system is lifting/lowering a mobility product. The operator of the lift should stand a safe distance from the unit being lifted/lowered to ensure that his/her feet are never positioned under a raised mobility product.

TRANSPORT VEHICLE POSITIONING

Be sure your vehicle is parked on flat, level ground and the emergency brake is engaged before attempting to lift a mobility product.



WARNING! Attempting to lift a mobility product when a vehicle is not on level ground will cause the mobility product to swing toward or away from the vehicle, making it difficult to get the mobility product into the vehicle.

III. INSTALLATION

LIFT SYSTEM INSTALLATION

NOTE: *The lift system is an exterior-rated lift system. Refer to the online compatibility database located at www.pridemobility.com for information concerning lift system/vehicle compatibility, or contact your authorized Pride Provider.*



WARNING! The lift system should be installed by an authorized service technician only.

WARNING! At least two people should lift the lift system into the rear of the vehicle. Use proper lifting techniques and avoid lifting beyond your physical capability.



WARNING! Avoid pinch points! Do not hold the lift frame by the pivot points when installing the lift system.

NOTE: *Footprint the mounting area along with the lift and mobility device to make sure all clearances pass above and below vehicle without any interference before starting installation.*

NOTE: *Use only the supplied hardware to install the lift system.*

NOTE: *To preserve vehicle-system data, the vehicle's power system may need to be connected to an alternate power source prior to battery removal. Refer to the vehicle's owner's manual for information on proper battery-disconnection instructions.*

Follow these steps for installation:

1. Install the lift system securement system to the vehicle.

NOTE: *Securement systems vary depending on vehicle manufacturer. Pride recommends use of only the securement system provided with the lift and that you follow all instructions provided by the manufacturer for installation.*

2. Connect the lift system to a power source. See "Wiring Harness Installation."
3. Ensure that all mounting hardware is fully tightened and all required clearances have been achieved.

NOTE: *The lift system may include an optional set of L-Base extensions. For information on L-base extension installation, refer to the supplemental instructions or contact your authorized Pride Provider.*

NOTE: *The lift system is equipped with a power base, which is an automated device designed to rotate the boom arm left and right.*

III. INSTALLATION

BOOM-ARM ADJUSTMENT

The boom-arm can be adjusted for your convenience. See figure 1.

To raise or lower the upper post:

1. Remove the nut and bolt from the upper post. See figure 1.
2. Raise or lower the upper post to the desired position, matching the adjustment holes of the upper post with the adjustment holes of the lower post.
3. Reinstall the bolt through the adjustment hole and secure it with the nut.

Lift System:

The Commander 400 is available in 2-axis or 3-axis models. The hand control has 6 buttons and is designed to control movement on all 3 axes. The orange button will not operate on 2-axis lift systems.

1. Rotate (Left and Right)
2. Boom Extension (In and Out) (3-axis system-only).
3. Lifting Strap (Up and Down)

NOTE: The angle of the boom arm can be adjusted to accommodate certain height limitations. See figure 4.

NOTE: Do not force the threaded bolt into the adjustment hole.

To secure the base:

Four nuts and four bolts are needed to firmly secure the lift system onto the base of your choice. There are four securement bolt holes located on the L-base. See figure 2.

Two bolts will be installed beneath the shroud of the power base. See figure 3.

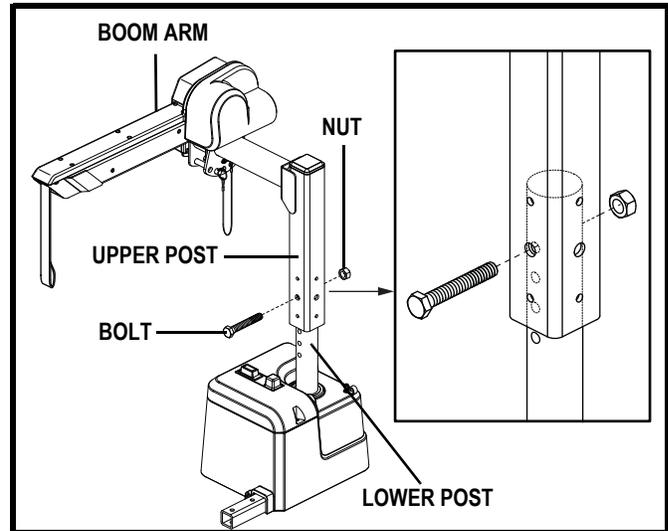


Figure 1. Upper Post Adjustment

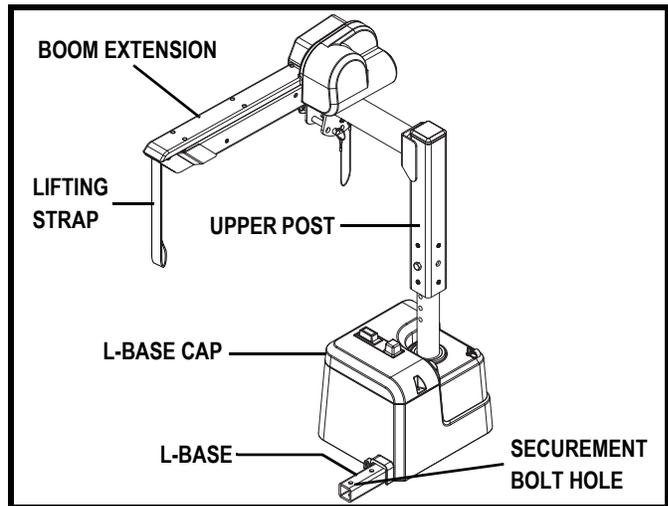


Figure 2. Fully Assembled Lift System

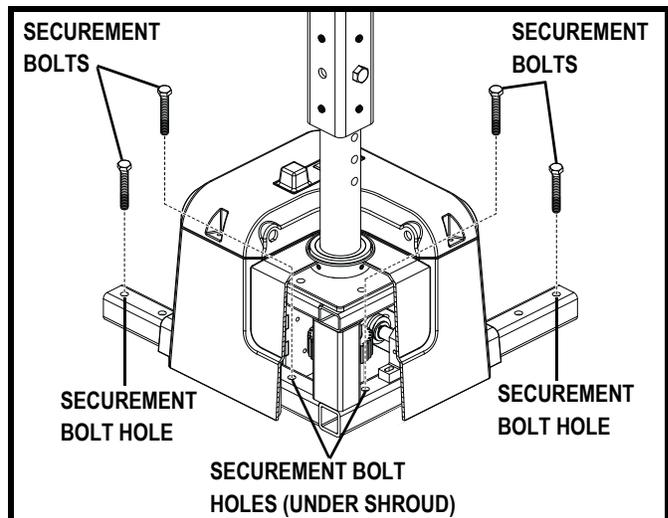


Figure 3. Power Base

III. INSTALLATION

To raise or lower the boom arm:

1. Support the boom arm.
2. Remove the detent pin located between the boom arm and upper post. Guide the boom arm upward or downward to the desired position. See figure 4.
3. Reinsert the detent pin into the top of the upper post to secure the boom arm in place. See figure 4.

ELECTRICAL WIRING INSTALLATION

1. Route the hard wire kit (starting at the lift) through the interior of the vehicle until you reach the automobile battery. See figure 5. Conceal the wire behind or under the interior panels. Be certain that the wire is protected with a rubber grommet when passing it through the metal panels and into the engine compartment. Inside the engine compartment, secure the wire to the firewall and the inner fender with the supplied plastic wire ties. Use care not to cause abrasions to the power wire. It is important to secure the power wire at various points along its run.
2. Insert the red positive (+) lead on the power wire into the spliced end of the red positive (+) battery lead, then crimp the splice to secure the wire.
3. Connect the red positive (+) battery lead to the positive (+) battery terminal and the black negative (-) ground wire to the negative (-) battery terminal.



WARNING! The red positive (+) wire must be connected directly to the positive (+) battery terminal.

WARNING! The black negative (-) wire must be connected directly to the negative (-) battery terminal.

4. Connect the harness extending from the motor housing to the harness coming from the battery.

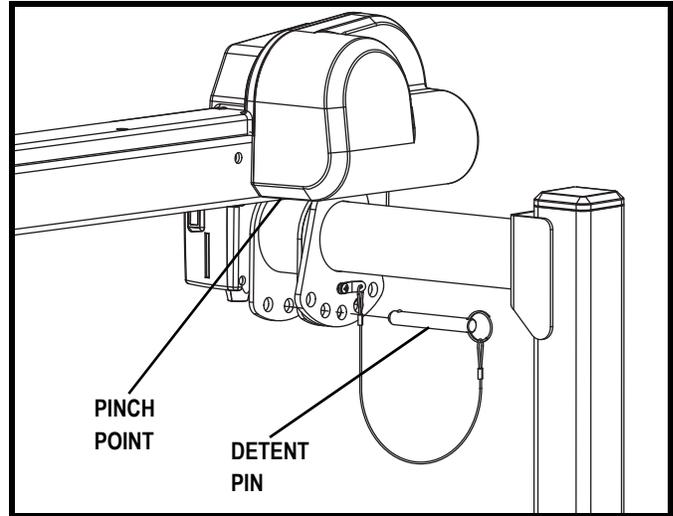


Figure 4. Securing the Boom Arm

III. INSTALLATION

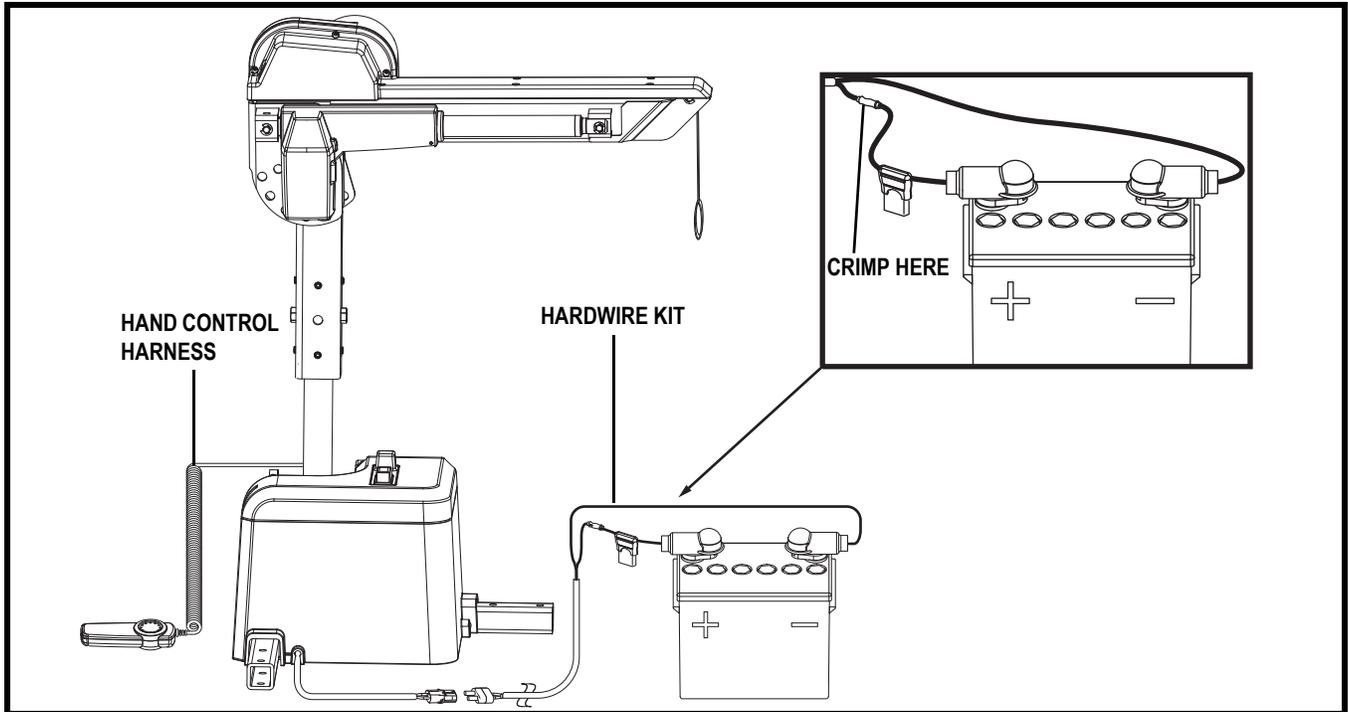


Figure 5. Electrical Wiring Connections

IV. OPERATION

POWER SWITCH OPERATION

The lift system is equipped with an ON/OFF switch that enables/disables operation. Toggle the ON/OFF switch to the “I” position to turn the power on; to the “O” position to turn the power off. See figure 6.

NOTE: The ON/OFF switch also functions as the circuit breaker reset button. See figure 6.

HAND CONTROL OPERATION

The hand control for the lift system operates the arm in six directions: up/down, rotate left/right and in/out. Press and hold the appropriate button until the desired position is obtained. See figure 7.

NOTE: Store the hand control in the hand control bracket (located on the boom) after operation and during storage.

LIFTING THE MOBILITY PRODUCT



WARNING! Before operating the lift system for the first time, be absolutely certain you have the proper docking device for your mobility product installed.

WARNING! Always operate the lift and mobility device being lifted on a flat, level surface

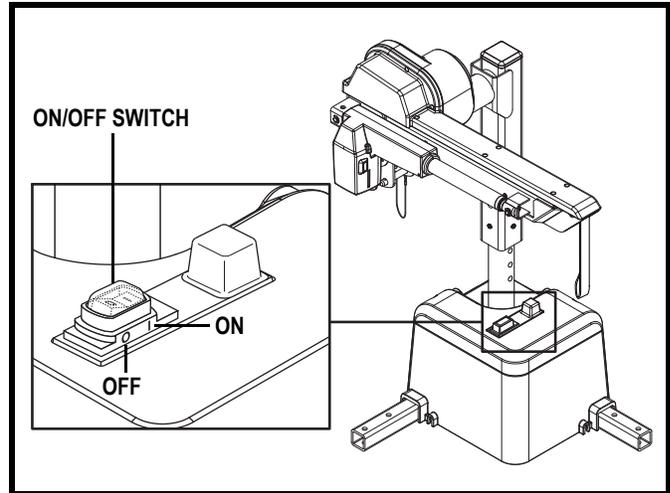


Figure 6. ON/OFF Switch

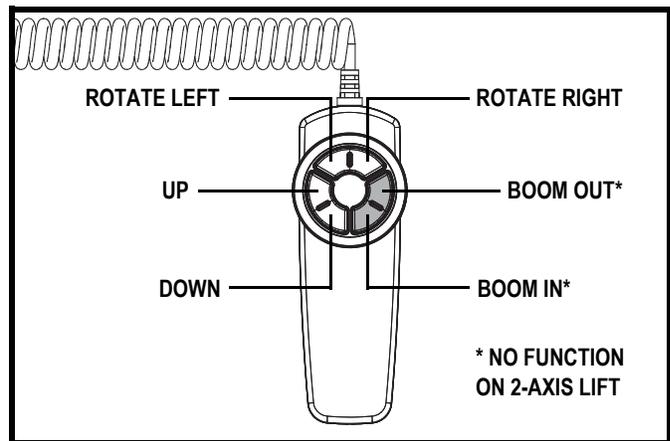


Figure 7. Hand Control

1. Prepare your mobility product for transport. Ensure that the power is off and properly secure the batteries. You may also need to lower the tiller and/or remove the seat.
2. Position your mobility product on the ground behind the installed lift. Be sure that there is ample space between the mobility product and the vehicle bumper to ensure that the mobility product will not hit the bumper while being raised. If the mobility product is too far from the vehicle’s bumper, the mobility product will be dragged when attempting to lift it.
3. Position the boom-arm over the mobility product.
4. Operate the lift in the downward direction. The lift strap should drop straight down to the T-bar or docking device collar.



WARNING! Inspect the lifting strap before each use for twisting, fraying, signs of wear, loose parts, damage or debris. If you discover a problem, contact your authorized Pride Provider for maintenance and repair.

WARNING! Avoid unloading into vehicular traffic.

NOTE: Keep tension on the lifting strap with your free hand when lowering the boom-arm.



WARNING! Do not extend the lifting strap past the warning label located on it.

IV. OPERATION

5. Ensure that the docking device is properly attached.
6. Operate the lift in the upward direction.



WARNING! Pinch/Crush Hazard! Always keep hands clear of the lifting strap while the lift system is lifting/lowering a mobility product. Ensure that all people and objects are a safe distance away from the mobility product being lifted/lowered and clear from path of travel.

NOTE: Do not drag the mobility product into position using the lift. If dragging occurs, your mobility product is too far away from the vehicle.

To prevent dragging:

- Release the lifting strap tension.
- Correct the position of the mobility product.
- Attempt the lift again.



MANDATORY! The lift system is designed to lift a maximum weight of 400 lbs. (181 kg). Do not exceed this limit.

7. If the mobility product begins to tilt, lower it completely and adjust the docking device by moving the pick-up bar in the direction of the tilt (when using a C-arm).
8. Tighten the pick-up bar once the proper balance point has been found (when using a C-arm).
9. Once the mobility product is raised high enough to fit into the vehicle, stop the lift. **See figure 8.**
10. Rotate the boom-arm toward the vehicle. When the mobility product is securely in the vehicle, lower the mobility product into the vehicle and secure it.

NOTE: Rotate the boom arm to the desired position to facilitate installation.

NOTE: Ensure the mobility device is secured against slipping once installed in the motor vehicle.

11. Shut off the lift system to prevent any accidental movement when transporting your mobility product.



WARNING! Your lift system was designed to be mounted primarily in a motor vehicle. Mounting your lift system on a platform, where the height of the lift may cause the lifting strap to extend beyond a safe point, can damage the lift system and injure the lift operator.

WARNING! Do not overtighten the strap. Doing so may put excessive strain on the motor, causing the circuit breaker to trip.

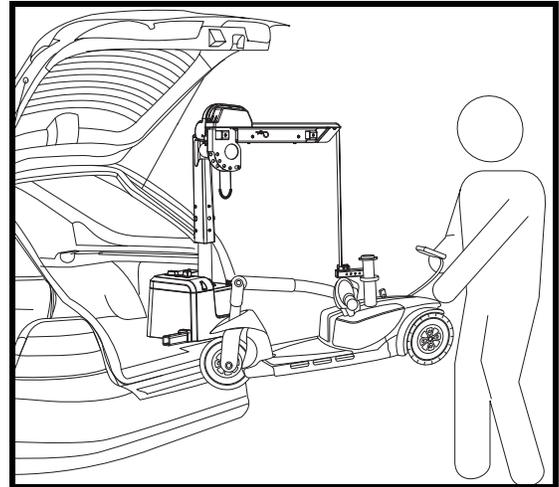


Figure 8. Lifting the Mobility Product

V. TROUBLESHOOTING

LIFT WILL NOT OPERATE

- Check the circuit breaker reset button. Reset if necessary. See figure 6.
- If the circuit breaker reset button is not tripped, check the hardwire fuse to see if it is blown. Replace if necessary. See figure 9.
- Ensure all harness connections are secure.
- Ensure the power wire leading to the positive battery terminal is tight and not corroded.
- Check the fuse located on the red power wire near the battery. If blown, replace with a new 15-amp fuse. See figure 9.



WARNING! The replacement fuse must exactly match the rating of the old fuse. Failure to use properly rated fuses may cause damage to the electrical system.

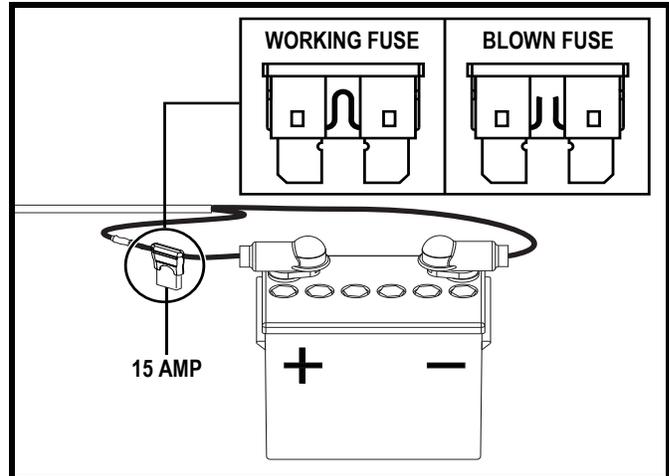


Figure 9. Hardwire Fuse

LIFT STOPS OPERATING

If your lift system is heavily strained because of excessive loads, the main circuit breaker (see figure 6) may trip to protect the motor and electronics from damage. When the breaker trips, the entire electrical system shuts down.



WARNING! Never attempt to lift more than 400 lbs. (181 kg) with the lift system.

To reset the main circuit breaker:

1. Allow a minute or so for the electronics to “cool.”
2. Push in the reset button to reset the breaker. See figure 6.

If the breaker trips frequently, contact your authorized Pride Provider.

LIFTING STRAP TRAVELS IN OPPOSITE DIRECTION OF BUTTON BEING PUSHED ON HAND CONTROL

Before each use, check that the lifting strap is traveling in the proper direction. If the belt travels in the wrong direction when you press either the up or down button, you must restore proper lifting strap travel.

To restore proper lifting strap travel:

1. Pull slightly on the strap and operate the lift until the strap is extended completely past the “stop” warning label.
2. Allow the strap to rewind itself. Do not allow any twists in the belt.

Observe the travel of the belt, which should correspond with the button being pushed on the hand control. If you are still experiencing problems, contact your authorized Pride Provider.

V. TROUBLESHOOTING

MANUAL OVERRIDE OPERATION

The lift system is equipped with a manual crank that serves as backup in the event of a power failure. Using the supplied tools, rotate the manual crank clockwise or counterclockwise to move the platform up or down. See figure 10.

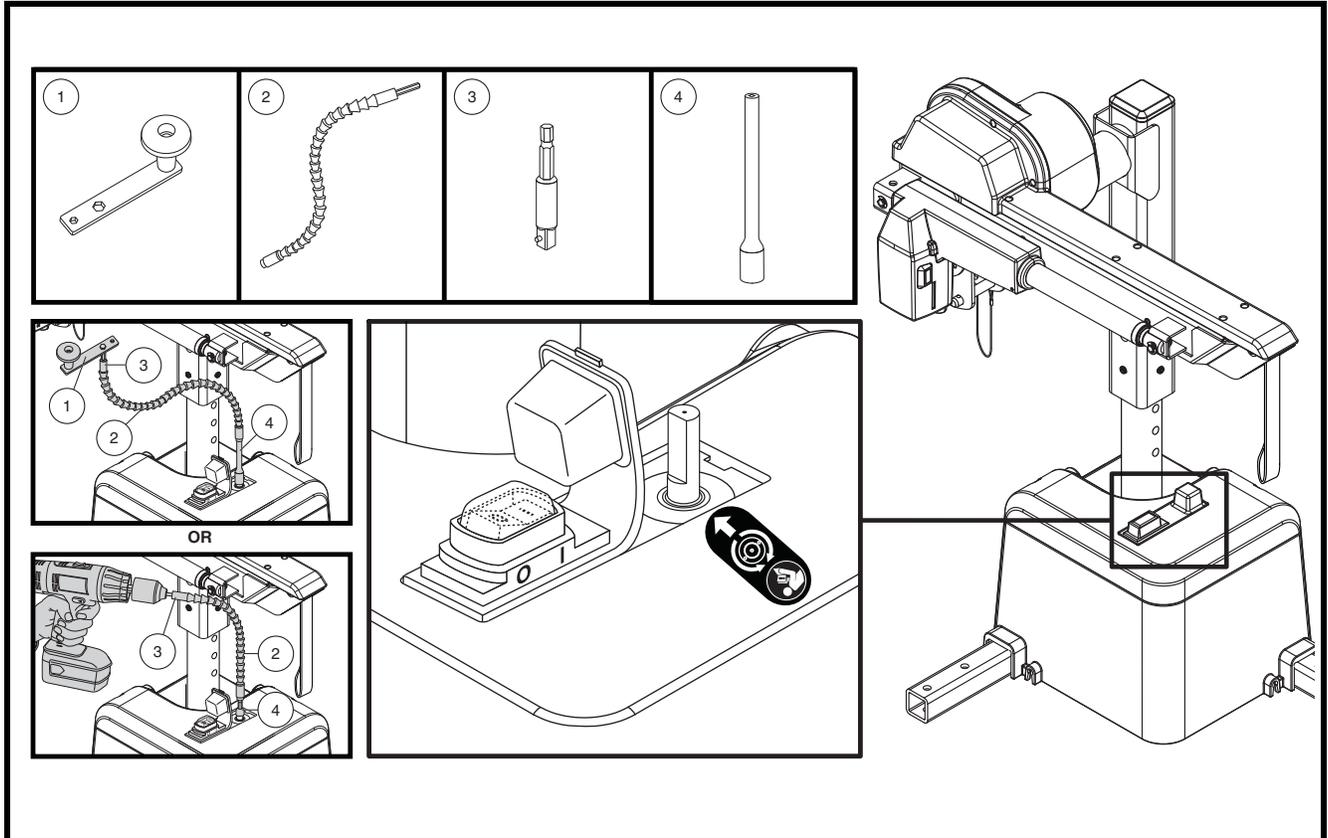


Figure 10. Manual Override Operation

VI. CARE AND MAINTENANCE

The following routine maintenance should be performed at the indicated intervals. Failure to perform the required maintenance procedures at the required intervals may void Pride's product warranty.

Perform prior to daily use:

- Inspect lift strap wear and replace if necessary.
- Inspect all harnessing for damage and replace if necessary.

Perform every 6 months:

Inspect all mounting hardware for defects and a secure fit. Any hardware found to be loose should be tightened or replaced if necessary.

Perform every 6 – 12 months:

- Visually inspect chains for damage and replace if necessary.
- Lubricate chains with "General Purpose Petroleum-based Grease".
- Inspect plastic shrouds for cracks or damage and replace if necessary.
- Inspect the power base plastic shrouds for cracks or damage and replace if necessary.
- Lubricate the power base gears with "General Purpose Petroleum-based Grease".

Storage and Operation Temperatures

- Transportation or storage: -40°F/-40°C to 149°F/65°C
- Operation: -13°F/-25°C to 122°F/50°C

VII. WARRANTY

THREE-YEAR TRANSFERABLE LIMITED WARRANTY

For three (3) years from the date of purchase, Pride Mobility Products will repair or replace at our option, free of charge, any mechanical or electrical component found upon examination by an authorized representative of Pride Mobility Products to be defective in material and/or workmanship.

This warranty does not extend to those items, which may require replacement due to normal wear and tear.

- Labor, service calls, shipping, and other charges incurred for repair of the product, unless specifically authorized by Pride Mobility Products IN ADVANCE, are excluded.

Exclusions also include components with damage caused by:

- Contamination
- Abuse, misuse, accident, or negligence
- Battery fluid spillage or leakage
- Commercial use, or use other than normal
- Improper operation, maintenance, or storage
- Repairs and/or modifications made to any part without specific consent from Pride Mobility Products
- Circumstances beyond the control of Pride

SERVICE CHECKS AND WARRANTY SERVICE

An authorized Pride Provider must perform warranty service. Do not return faulty parts to Pride Mobility Products without prior written authorization. All transportation costs and shipping damage incurred while submitting parts for repair or replacement is the responsibility of the purchaser.

Failure to follow the instructions, warnings, and notes in the owner's manual and those located on your Pride lift product can result in personal injury or product damage and will void Pride's product warranty.

There is no other express warranty.

IMPLIED WARRANTIES

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may not apply to you.

This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

Please fill out and return the product registration card to Pride Mobility Products. This will aid Pride in providing the best possible technical and customer service.

NOTES



Pride® Lifts & Ramps

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