



RF Wireless Pendant
Available only on:
Backpacker AVP 2.0

Including Models

Backpacker Plus
Backpacker AVP 2.0



Pride® Lifts

Backpacker Series

Owner's Manual

SAFETY GUIDELINES



WARNING! An authorized Harmar Dealer or a qualified technician must perform the initial setup of this product and must perform all of the procedures 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.



CALIFORNIA PROPOSITION 65 WARNING! This product may contain substances which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Intended Use

The intended use of the Harmar Mobility Products device is to aid in the transport of products that provide mobility to persons limited to a seated position that have the capability of operating a mobility device.

Quick Reference Information

Harmar Dealer: _____
Address: _____
Phone Number: _____
Purchase Date: _____

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: This product meets IPX4 classification (IEC 60529).

NOTE: The Backpacker Series Lift System and its components are not made with natural rubber latex. Consult with the manufacturer regarding any after-market accessories.



CONTENTS

I.	INTRODUCTION.....	4
II.	SAFETY	5
III.	INSTALLATION	9
IV.	OPERATION	14
V.	TROUBLESHOOTING	20
VI.	CARE AND MAINTENANCE	21
VII.	WARRANTY	24

I. INTRODUCTION

SAFETY

Welcome to Pride Mobility Products by Harmar. 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 Harmar, 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.

Harmar is not liable for damage to property or personal injury arising out of the unsafe use of a lift system. Harmar 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 Harmar 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 our web site **www.Harmar.com** or contact your authorized Harmar Dealer.

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 Harmar to enhance or preserve the safe use of this product.

SHIPPING AND DELIVERY

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

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.



Crush Hazard—Moving parts can crush and cut. Keep hands clear.



Crush Hazard—Moving lift can crush. Keep feet clear during operation.



Crush Hazard—Moving lift can crush. Keep hands clear during operation.



Do not sit on mobility device while activating lift or during transport.



Keep area clean, dry, and free of obstructions.



Do not remove cover! Only authorized personnel may service this equipment. Refer to manual for important safety information.



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



Maximum lifting capacity



Do not use as a step.



Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.

II. SAFETY



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 battery is charging.



Corrosive chemicals contained in battery.



Explosive conditions exist!



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



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



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



Disposal and recycling – Contact your authorized Harmar Dealer for information on proper disposal of your Harmar product and its packaging



Manual Override.

II. SAFETY



Remove transit screw and washer prior to operating the lift for the first time.



II. SAFETY

LIFTING CAPABILITIES

The Backpacker Lift System is designed for a maximum lifting capacity of 350 lb (159 kg). Under no circumstances should the Backpacker 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 device owner's manual for information on the overall weight of the mobility product before lifting.



WARNING! Exceeding the maximum lift capacity of 350 lb (159 kg) may cause the lift system to fail, resulting in damage to the mobility product and/or injury to the lift operator.



WARNING! Adding accessories, oversize batteries, or a different seat will increase the weight of your mobility product. Verify with your authorized Harmar Dealer the total weight of your mobility device, including additions.

INSTALLATION

Your Backpacker Lift System is an interior lift designed for installation into various brands of SUVs and full-sized/mini vans. Read and fully understand the installation instructions provided in this manual and related literature for your brand of vehicle before installing the lift system.



WARNING! Before drilling or cutting into the vehicle, make absolutely certain through visual inspection that there are no obstructions, such as the fuel tank, exhaust pipes, or electrical wires, in the path of the drill bit.

LIFTING NON-HARMAR PRODUCTS

The Backpacker Lift System is an extremely versatile device, which users may employ to lift items other than Harmar products. Harmar has no control over such use, nor can Harmar anticipate every possible use to which a Backpacker 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 Harmar to be incompatible with the lift system is done at the operator's own risk, and Harmar accepts no liability for damage or injury resulting from such use.

PRE-LIFT INSPECTION

Before operating the Backpacker Lift System, conduct a careful survey of your surroundings to ensure that the lift system has a clear path of operation. Remove any possible obstructions before operating the lift and do not allow children to operate or play near the lift. Ensure that all parts of the lift system are completely fastened before loading the mobility device onto the lift platform, and make sure the mobility device is properly secured before operating the lift system.

OPERATOR POSITIONING

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 the raised lift platform. The operator should also keep his/her hands clear of the lift system during operation.

TRANSPORT VEHICLE POSITIONING

Be sure your vehicle is parked on flat, level ground before attempting to load, lift, or remove a mobility device with the Backpacker Lift System. Make sure the vehicle emergency park brake is engaged before loading or unloading a mobility device.

III. INSTALLATION

BACKPACKER LIFT SYSTEM INSTALLATION



WARNING! The Backpacker Lift System should be installed only by an authorized service technician.

WARNING! At least two people should lift the Backpacker 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 Backpacker.

NOTE: Use only the supplied hardware to install the Backpacker Lift System.

Follow these steps for installation:

1. Install the Backpacker securement system to the vehicle. Refer to the installation instructions supplied with the securement system.

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

NOTE: If your Backpacker is equipped with caps, the caps can be removed if additional clearance is needed.

2. Connect the lift system to a power source. See “Wiring Harness Installation.”

NOTE: The lift system is equipped with an optional onboard battery, refer to “Onboard Battery Installation.”

3. Ensure that all mounting hardware is fully tightened once the lift has been centered and all required clearances have been achieved.

NOTE: If there is not adequate clearance between the bumper and the platform frame, you may need to install an end support bracket. Remove the Backpacker from the van and install the end support bracket close to the rear door opening. Reinstall the lift into the vehicle, making sure that the bolts protruding from the bottom plate of the Backpacker closest to the vehicle door snap into the tapped holes on the top of the end support bracket.

NOTE: It may be required to trim the rear inside sill to achieve the adequate platform clearance with the platform under load.

NOTE: Pay attention to the path of the lift platform during operation. Make sure the lift does not rub against or interfere with the vehicle in any way. If you notice any contact between the lift platform and the vehicle, stop lift operation immediately and contact your authorized Harmar Dealer for assistance.

4. Run the Backpacker through an entire lift cycle. Lower the platform to the ground and raise the platform to the fully stowed position in the vehicle. See IV. “Operation.”

NOTE: Ensure the yellow transit screw and washer have been removed from the front of the lift and the rubber bushing has been installed before operation. See figures 1 and 2.



WARNING! Remove the transit screw and washer prior to lift operation. Failure to do so may result in serious equipment damage.

III. INSTALLATION



WARNING! Release the “DOWN” button when the lift platform touches the ground. Do not allow the motor to run after the lift platform has touched the ground. Allowing the motor to run will increase the pressure on the lift platform and may result in product or vehicle damage.

Wiring Harness Installation

The wiring harness is approximately 25 ft. (7.62 meters) long and will accommodate most vehicles.

NOTE: You may wish to perform a practice run before installing the wiring harness. Route a piece of light rope (equivalent to the gage of the wiring harness) along the anticipated path observing contact points, potential rubbing/chafing points, and any sharp edges. Remove sharp edges with a fine grade file, then treat the steel with a rust inhibitor or metal sealant.



WARNING! Route the wiring harness through the vehicle rather than under the vehicle to avoid coming in contact with sharp edges, extreme temperatures, moving parts, and roadway debris. Power shorts may occur if wires come in contact with hot exhaust or sharp edges.

WARNING! Never attach the wiring harness to a secondary power source. Do not attempt to use trailer wiring to power the lift system. The wiring harness must be connected directly to the vehicle battery.

Follow these steps to route the Backpacker Series wiring harness:

1. Route the lift system wiring harness (starting at the lift) through the interior of the vehicle. **See figure 3.**



WARNING! Avoid routing the wire harness where it will interfere with or become pinched by the securement system.

2. Conceal the harness behind or under the interior panels (there should be existing holes). Be certain that the harness is protected with a rubber grommet when passing it through the metal panels and into the engine compartment.
3. Inside the engine compartment, secure the harness to the firewall and the inner fender with plastic wire ties. Use care not to cause abrasions to the wiring harness. It is important to secure the wiring harness at various points along its run of the vehicle.



WARNING! Do not cut or shorten the wiring harness. If the harness is too long, coil the excess wire and secure it with plastic wire ties.

4. Remove the 15-amp fuse from the wiring harness. **See figure 3.**

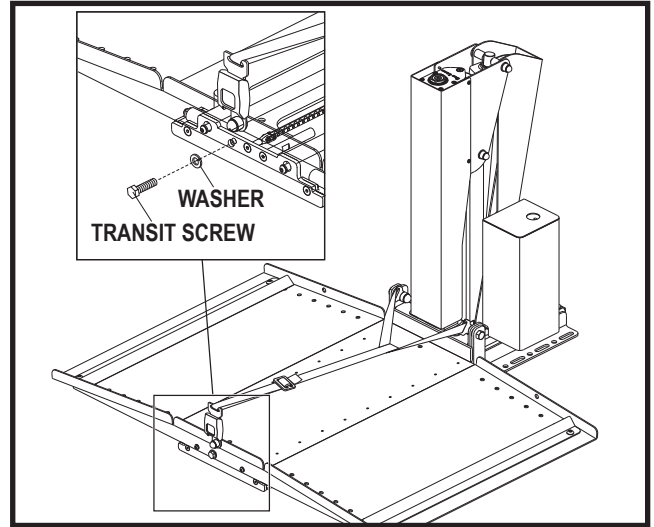


Figure 1. Transit Screw Removal

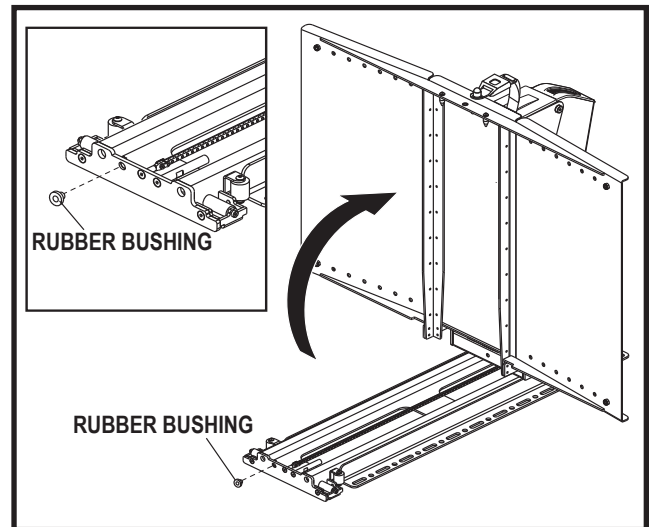


Figure 2. Rubber Bushing Location/Installation

III. INSTALLATION

5. Connect the red wire to the positive (+) terminal and the black (grounding) wire to the negative (-) terminal of the vehicle battery.
6. Reinstall the 15-amp fuse to the wiring harness.



WARNING! Before operating the lift, inspect the wiring harness for proper routing and grounding. Improper routing can cause damage to the harness, and improper grounding can cause damage to the electrical system.

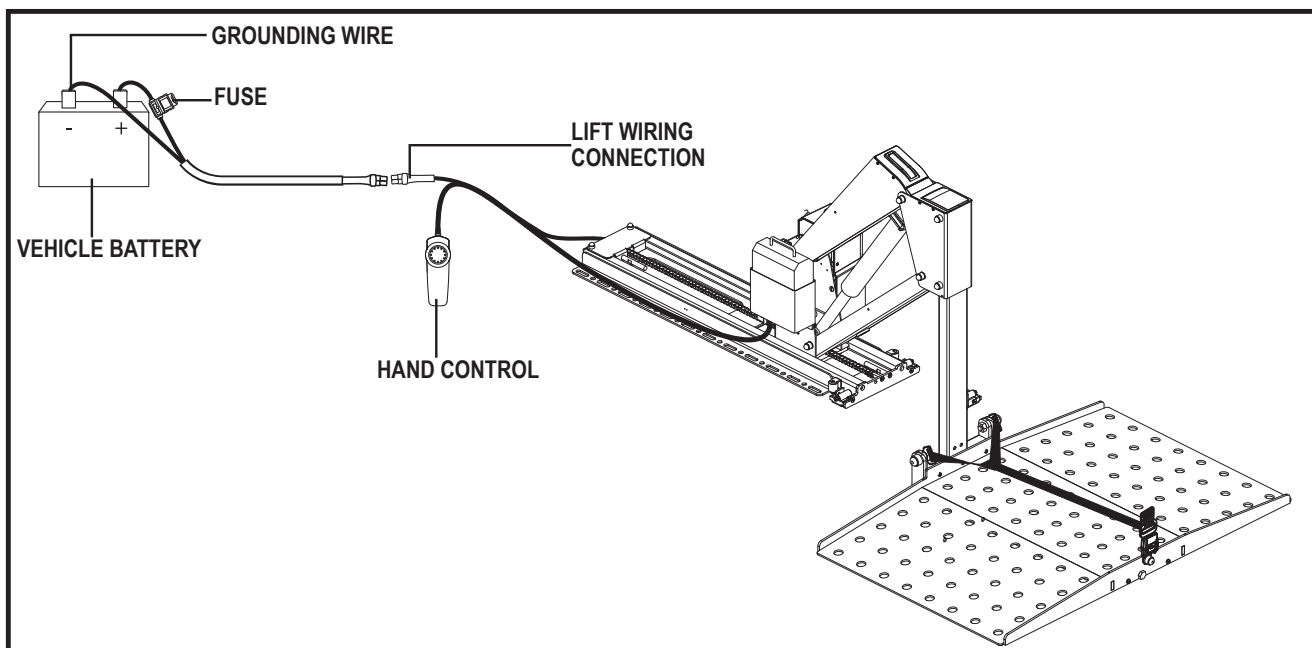


Figure 3. Wiring Harness Installation - Backpacker Plus

Optional onboard battery pack installation

The optional onboard battery is designed for easy installation as it does not require wires to be routed through or under the vehicle. If using the optional TYPE II onboard battery pack, please refer to the manual supplied with the pack for proper operating instructions and harness connections.

Follow these steps to install the onboard battery (Type I)

1. Remove the nuts and washers from the protruding bolts on the side of the lift motor housing. **See figure 4.**
2. Slide the spacer bar onto the protruding bolts, if not already installed.
3. Mount the battery case onto the protruding bolts and secure into position with the nuts and rubber caps removed earlier. **See figure 4.**
4. Insert the onboard battery into the battery case, making sure that the connector on the bottom of the battery aligns and fully connects with the mating connector inside the battery case.
5. Connect the male connector on the battery cable to the female connector at the base of the Backpacker.
6. Secure the battery cable to the other cables with wire ties.

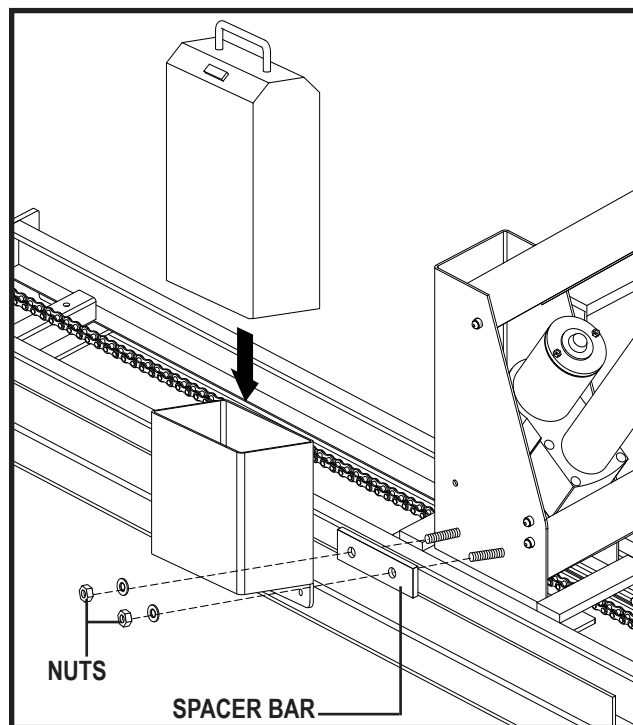


Figure 4. Onboard Battery installation (Type I)

III. INSTALLATION

Backpacker AVP platform adjustment

The Backpacker AVP is equipped with an adjustment platform that can be lengthened or shortened to accommodate a wide range of mobility devices. See figure 5.

Follow these steps to adjust the platform:

1. Remove the nuts and bolts that secure the adjustable wings to the main platform.
2. Move the adjustable wings to the desired width.
3. Align the adjustment holes of the wings with the holes of the main platform.
4. Reinstall the nuts and bolts, and tighten.

Wheel Chock Installation

Your lift is supplied with two adjustable wheel chocks that aid in centering your mobility device during loading. See figure 6 or 7.

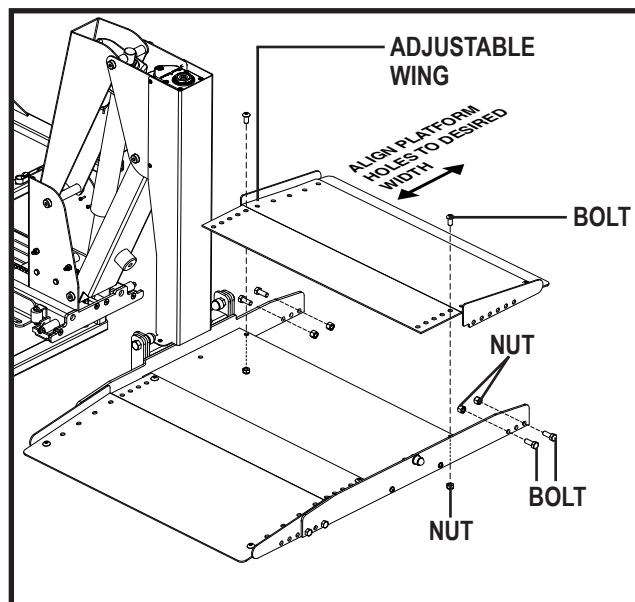


Figure 5. Backpacker AVP Platform Adjustment

Follow these steps to adjust the wheel chocks:

1. Remove the wheel chocks.
2. Drive your mobility device onto the lift platform, positioning it as near to the center as possible.
3. Position the wheel chocks on the platform. Scooters: Place a wheel chock in front of the front wheel(s) and behind the rear wheels or behind the front wheel(s) and in front of the rear wheels. Power Chairs: Place a wheel chock in front of the drive wheels and behind the drive wheels.
4. Take note of the adjustment holes the wheel chocks align with on the platform and remove the chocks.

NOTE: For larger scooters, the wheel chocks may be positioned to the inside of each wheel.

5. Remove the mobility device from the lift platform.
6. Raise the platform high enough to be able to install hardware from beneath it.
7. Place the wheel chocks onto the lift platform and secure them with the supplied bolts and nuts.

NOTE: Make sure the mobility device is properly secured with the Y-strap before operating the lift or transporting the mobility device.

III. INSTALLATION

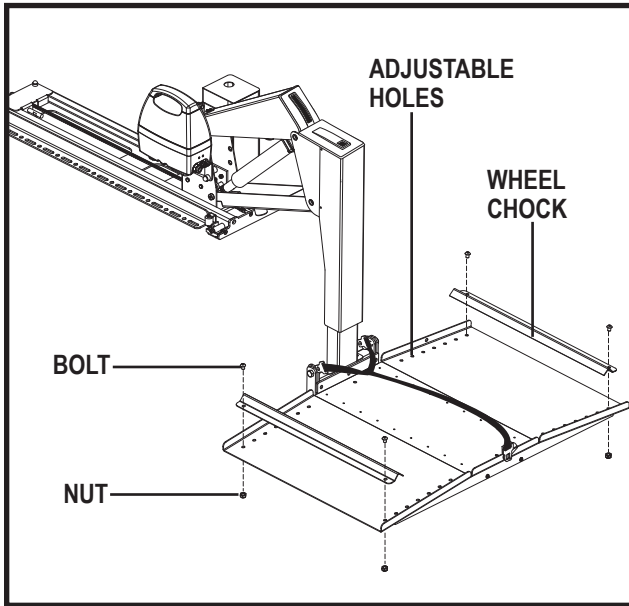


Figure 6. Backpacker AVP Wheel Chock Installation

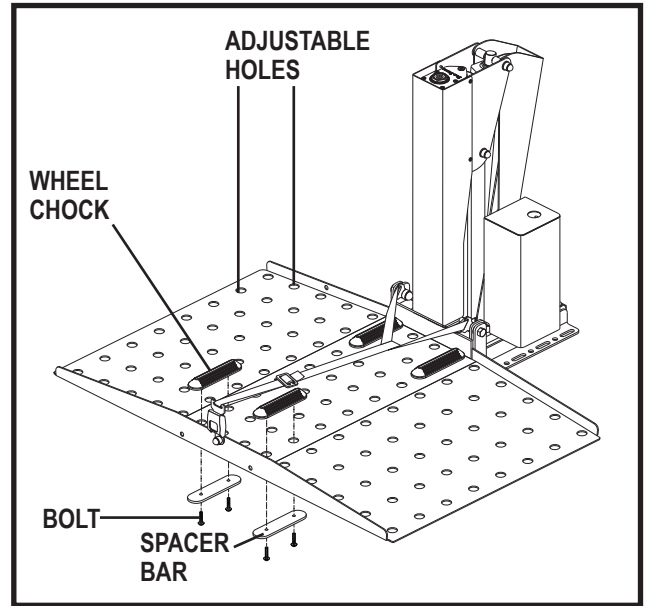


Figure 7. Backpacker Plus Wheel Chock Installation

IV. OPERATION

BACKPACKER LIFT SYSTEM OPERATION

The Backpacker Lift System is designed to lift an unoccupied mobility device from the ground into the cargo area of an SUV or full-sized/mini van for the purpose of easy transport.



WARNING! The Backpacker Lift System is intended for the transport of unoccupied mobility devices only. Do not sit on the mobility device while activating the lift or during transport.

WARNING! Make sure the lift system is clean, dry, and free of obstructions before operating.

NOTE: Prior to carrying your mobility device for the first time, ensure the platform will remain level with the device on it.

Steps to level the platform:

1. Place the mobility device on the platform. The weight of the device will determine the amount of adjusting needed.
2. Remove the device from the platform for easy access to the three adjustment screws located where the platform connects to the lowering arm. **See figure 8.**
3. Use a 3/16 Allen key to turn the adjustment bolts as needed to level the platform. Make the same adjustment to all three adjustment screws.
4. After leveling the platform for your current mobility device, additional adjustments will not be necessary until a different mobility device will be carried.

Follow these steps to load a mobility device with the Backpacker Lift System.

1. Press and hold the “DOWN” button. **See figure 9.** The lift will move the platform to its farthest forward stop, then lower to the ground. Once the platform has reached the ground, release the “DOWN” button.



WARNING! Release the “DOWN” button when the lift platform touches the ground. Do not allow the motor to run after the lift platform has touched the ground. Allowing the motor to run will increase the pressure on the lift platform and may result in product or vehicle damage.

NOTE: The lift motor is equipped with a slip clutch, which emits a ratcheting noise at the end of each horizontal (in and out) movement. This sound is normal and does not indicate a problem with your lift system.

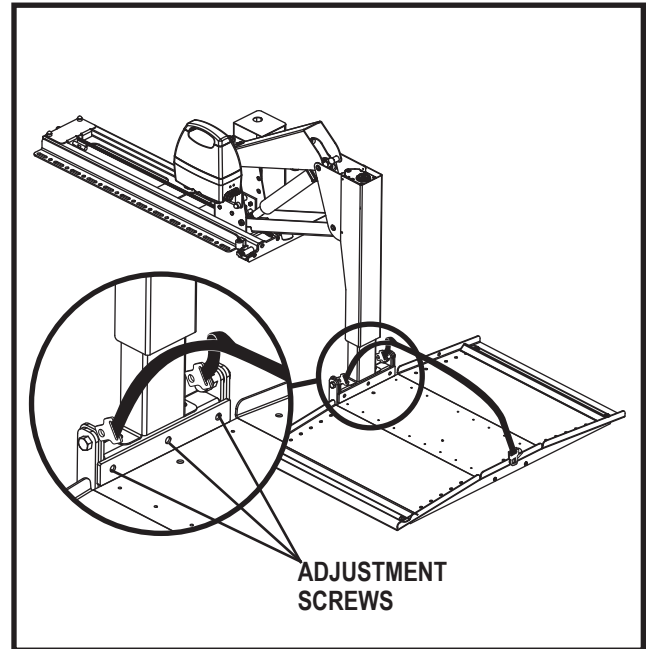


Figure 8. Platform Adjustment Screws

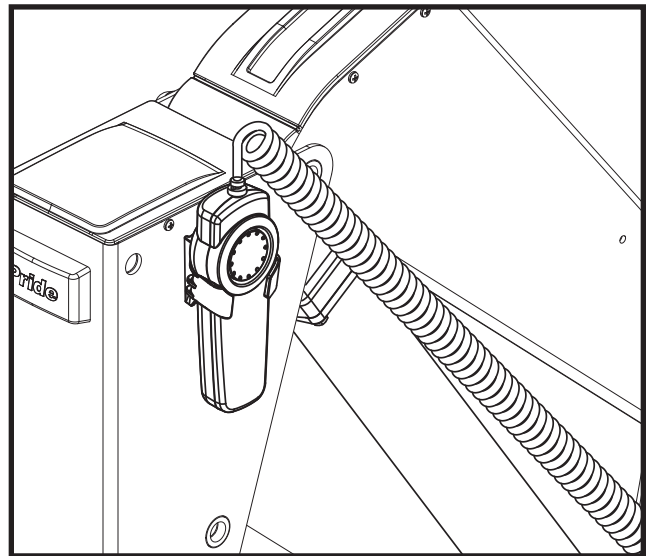


Figure 9. Hand Control

IV. OPERATION



WARNING! Maintain a safe distance from the lift platform. Ensure your feet are not positioned under the lift platform and keep your hands clear of the lift system during operation.

2. Set the speed control on the mobility device to the slowest setting and carefully drive the mobility device onto the lift platform, being sure to center the mobility device between the previously installed wheel chocks.

NOTE: You may wish to load the mobility device while standing next to it using the manual freewheel feature. Refer to the mobility device owner's manual for more information on manual freewheel mode.

3. Shut down the power to the mobility device, remove the key if applicable, and make sure the unit is in drive mode (drive motors engaged). Refer to the mobility device owner's manual for more information on drive mode.



WARNING! Never leave a mobility device in freewheel mode during lift system transport, as the mobility device could roll or shift on its own.

4. Secure the mobility device to the platform by draping the Y-strap over the seat and buckling the strap securely. **See figure 10.**



WARNING! Ensure the area behind the lift is clear of obstructions.

WARNING! Never attempt to secure the Y-strap over the seat back or armrests of the mobility device.



MANDATORY! Always secure the mobility device to the lift with the Y-strap before lift system operation or vehicle transport.

5. Pull the end of the strap tightly to remove any excess slack over the seat.

NOTE: Inspect the Y-strap before each use to ensure there are no signs of fraying or wear. Ensure that the mobility device is secured properly before transport. Harmar is not liable for damage or loss resulting from improper securing of a mobility device.

6. Press and hold the "UP" button. **See figure 9.** The lift will move up to its highest lift point, then slide into the SUV or van. Once the mobility device is stowed completely within the vehicle, release the button.

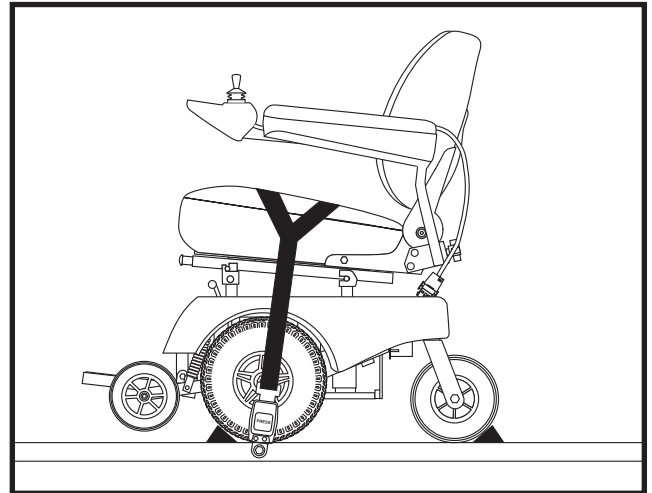


Figure 10. Y-strap Positioning

IV. OPERATION

NOTE: Ensure that the SUV or van has enough headroom to accommodate the height of the mobility device before loading it into the vehicle. Lower the tiller, adjust the seat back angle, or remove the seat if necessary. Refer to the mobility device owner's manual for more information on these adjustments.



WARNING! Do not exceed the load limits of your vehicle as specified by the vehicle manufacturer.

WARNING! Do not sit on your mobility device while it is in a moving vehicle.

When you are ready to remove the mobility device from the vehicle, lower the platform to the ground, unfasten the Y-strap, and drive the mobility device off of the platform. Once unloading is complete, return the lift platform into the vehicle.

MANUAL OVERRIDE OPERATION

The lift is equipped with a manual override feature that, in the event of a power failure, allows the lift to be manually positioned. Using the supplied tools, it is possible to elevate or lower the platform (Backpacker AVP only), raise or lower the tower arm, and move the lift forward or backward.

The Backpacker lift platform can be raised/lowered from the adjustment point located at the top of the lift (see figure 11).

NOTE: Some lifts have only a single adjustment opening on the motor. See figure 12.



PROHIBITED! DO NOT use the flex-shaft when manually raising or lowering the lift platform while using the method illustrated in figure 11. Attach the needed hardware directly to the drill or the manual adjustment wrench (see figure 15).

PROHIBITED! Never manually move the lift backward with the lift platform in the lowered position. Ensure the lift platform is fully raised and the tower arm is completely retracted. See figure 14.

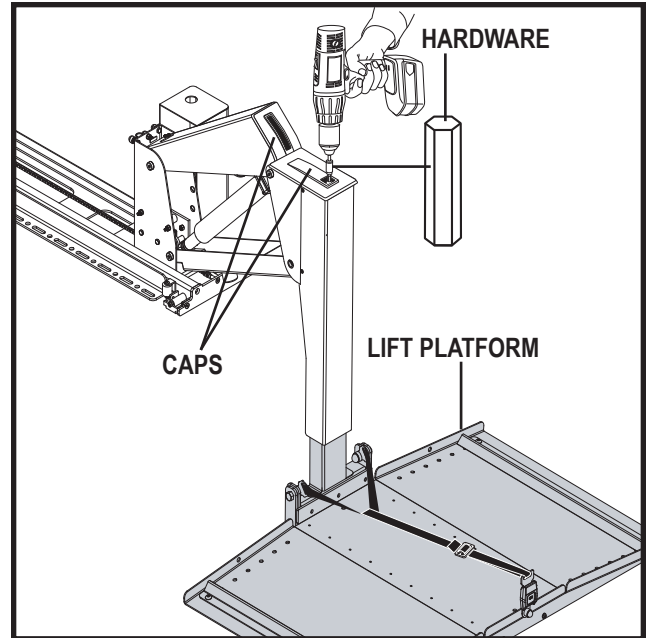


Figure 11. Raise or Lower the Platform. DO NOT use the Flex-Shaft for this Operation

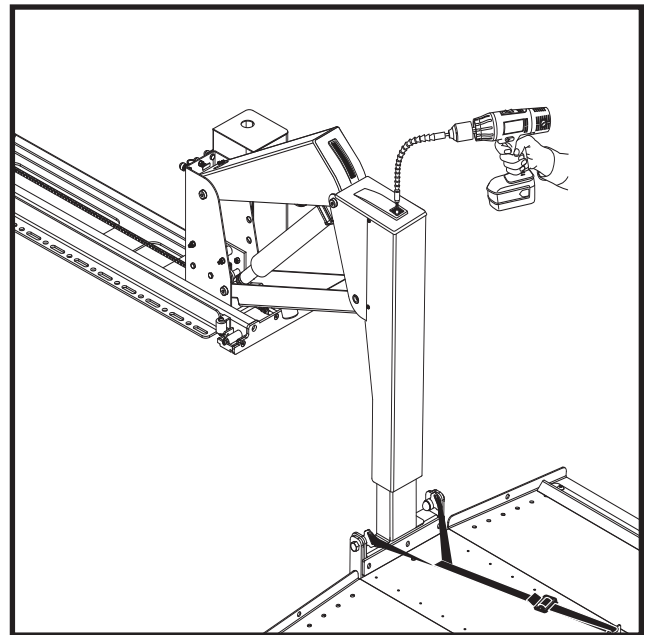


Figure 12. Raise or Lower the Platform (Single Adjustment Opening)

IV. OPERATION

To operate the manual override:

1. Secure the appropriate end of the flex-shaft to a drill, and depending on which part of the lift you want to move, attach the appropriate hardware to the other end of the flex-shaft. **See figures 11, 12 13, and 14.**
2. Insert the flex-shaft into the appropriate adjustment opening of the lift.
3. Operate the drill to ensure the lift is moving in the desired direction. Change the spin direction of the drill if needed.
4. Operate the drill until the lift reaches the desired position.

NOTE: When a power drill is not available, the manual adjustment wrench can be used. See figure 15. Attach the small opening of the manual adjustment wrench to hex hardware and rotate manually in the direction in which you want the lift to move.

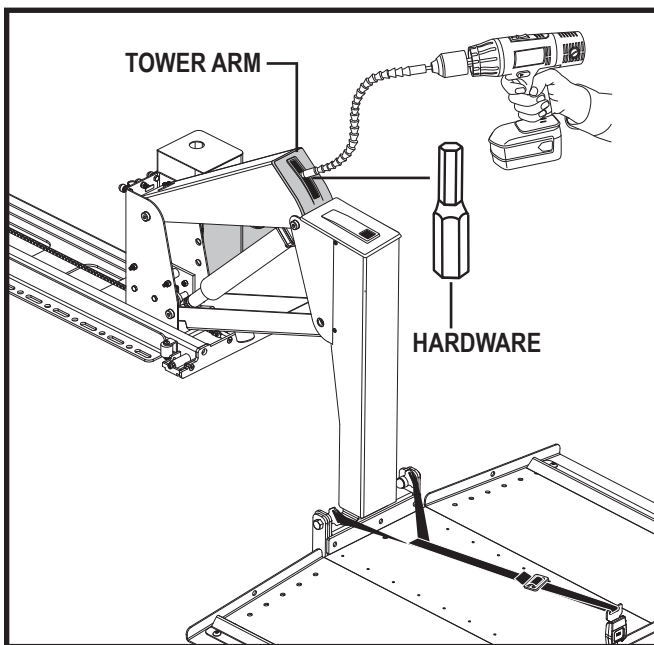


Figure 13. Raise or Lower the Tower Arm

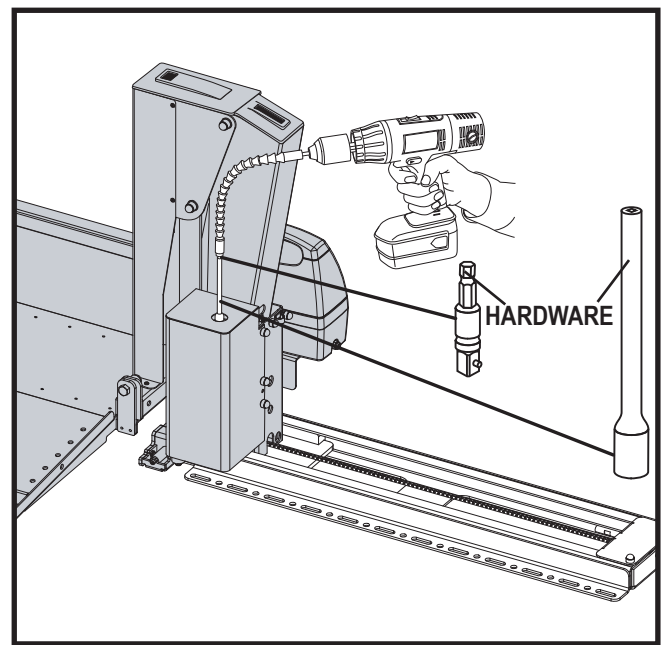
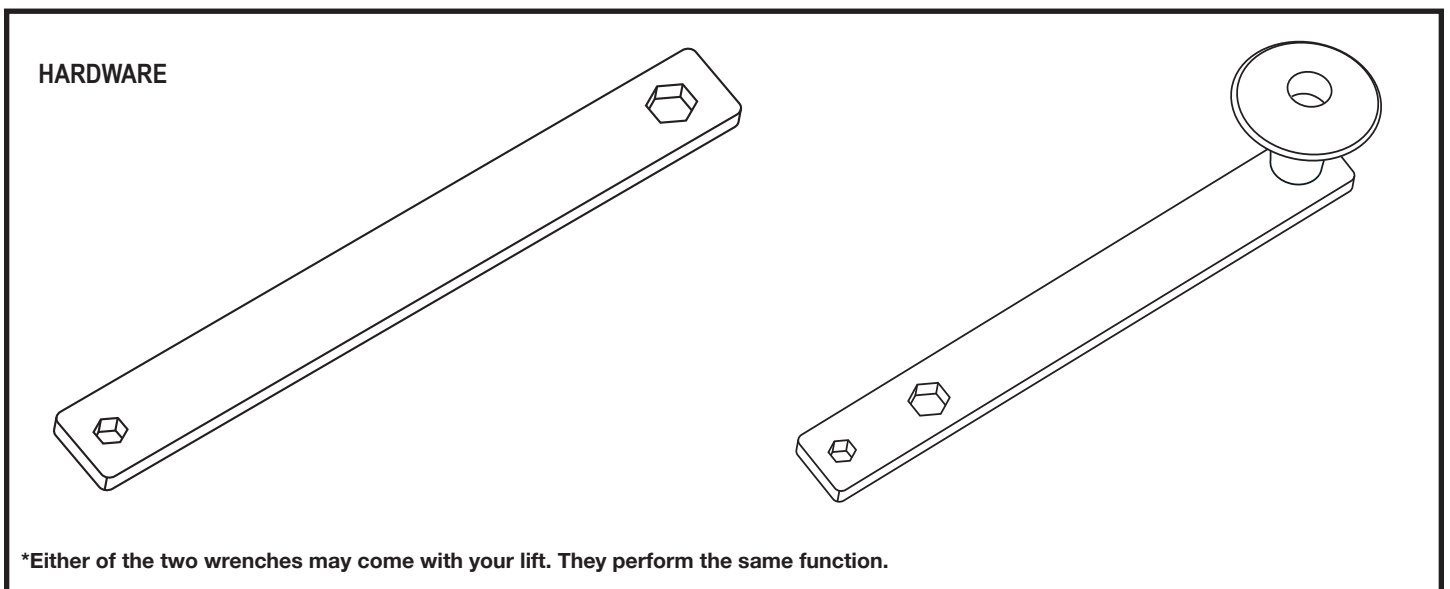


Figure 14. Front-to-Back Movement



*Either of the two wrenches may come with your lift. They perform the same function.

Figure 15. Manual Adjustment Wrench

IV. OPERATION

PUDDLE LIGHT (Backpacker AVP only)

Your lift system may be equipped with a puddle light for safety and convenience.

To operate the puddle light:

1. To activate the puddle light, press the button on the right side of the lift system hand control for 1 second (**see figure 16**), then release. The puddle light will activate. The puddle light will remain active while the lift system is in use and for 10 seconds after the lift system stops.
2. To deactivate the puddle light, press the button on the right side of the lift system hand control again for 1 second then release.



WARNING! Ensure the motor of your vehicle is running while operating the lift system. Operating your lift system when your vehicle is not running may drain your car battery.

WARNING! Never run a vehicle inside an enclosure/garage due to toxic gasses.

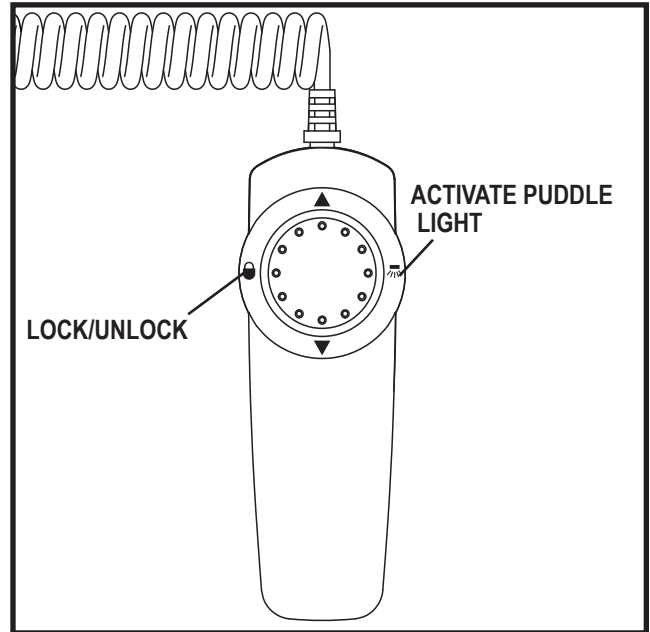


Figure 16. Hand Control

NOTE: The puddle light will flash three (3) times then beep three (3) times continuously if there is a low battery voltage condition. If this occurs, your car battery may be low. Allow the vehicle to run for 15 minutes to charge the battery. If the “low voltage” warning continues, contact your automotive service provider to check the battery.

LOCK/UNLOCK LIFT SYSTEM

To Lock lift system:

1. Using the wired hand control, press and hold the left “lock” button for approximately five seconds. The puddle light will flash once, and the unit will beep once. Release the lock button.

To unlock lift system:

1. Using the wired hand control, press and hold the left “lock” button for approximately five seconds. The LEDs will flash twice, and the unit will beep twice. Release the lock button.

Safety Latch Switch

Your lift system may be equipped with a safety latch switch. The safety latch switch will prevent your lift system from operating in the event that your vehicle’s trunk or hatch is closed.

NOTE: The lift system should only be operated when your vehicle’s trunk or hatch is open.

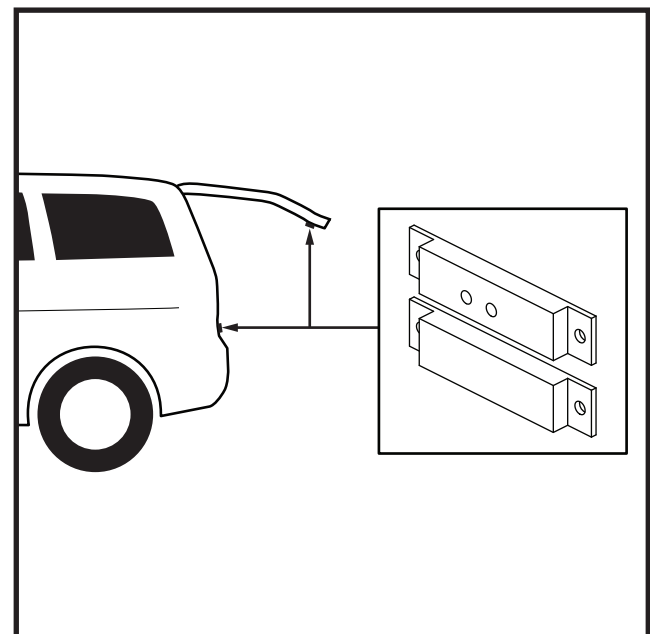


Figure 17. Safety Latch

IV. OPERATION

PROTECTIVE CHAIN (Backpacker AVP only)

Your lift system is equipped with a protective chain that moves along the outer guide of the chain rail (see figure 18). Ensure that the chain rail is free of obstruction at all times. If the protective chain encounters an obstruction or becomes loose, run the lift to the rear-most position to automatically realign the lift system.



WARNING! Avoid contact with the protective chain and chain rail. Ensure that the chain rail is free of obstruction at all times.

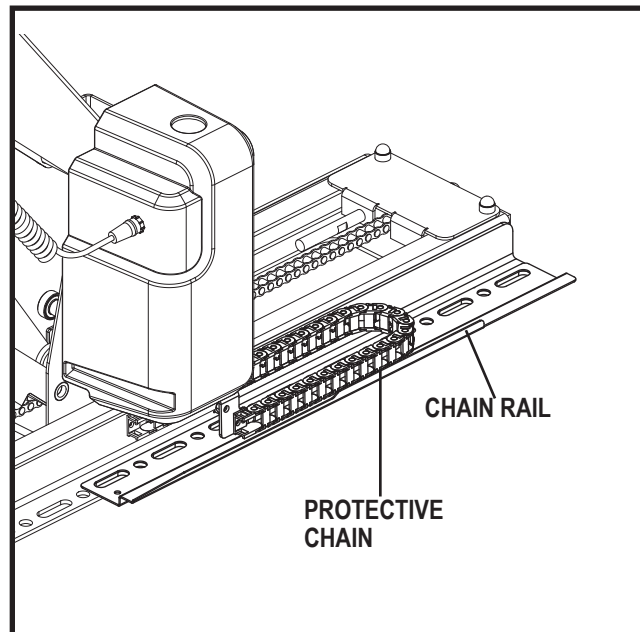


Figure 18. Protective Chain

V. TROUBLESHOOTING

TROUBLESHOOTING

Any electromechanical device occasionally requires some troubleshooting. However, most of the problems that may arise can usually be solved with a bit of thought and common sense. Many of these problems occur because the on-board battery or vehicle battery is not fully charged or because the battery is worn down and can no longer hold a charge.

What if the motor on my lift system will not operate?

- Make sure the onboard battery or vehicle battery is fully charged.
- Make sure all connections to the motor and battery are secure.
- Check the wiring harness for signs of wear and decay. Replace the harness if necessary.

What if the lift system operates slowly up and or down?

- Make sure the onboard battery or vehicle battery is fully charged.
- Make sure all connections to the motor and battery are secure.
- Check the wiring harness for signs of wear or decay. Replace the harness if necessary. Please see the provider.

What if the lift platform does not lower completely to the ground?

Check to make sure that area under the lift platform is free of obstructions.

What if my wireless pendant will not operate?

- Make sure that your vehicle's hatch is fully open. If the safety hatch switch is activated, your lift system will not operate.
- Ensure that the wireless pendant is programmed to work with your lift system. This supplemental information is provided with the Wireless Pendant. See "Programming the Wireless Pendant."
- If the hand control is fully operational but the wireless pendant does not work, the battery may need to be changed. See "Battery Replacement."

What if my lift system stops working?

- Make sure the onboard battery or vehicle battery is fully charged.
- Make sure all connections to the motor and battery are secure.
- Check the wiring harness for signs of wear and decay. Contact your authorized Harmar Dealer to replace the harness if necessary.
- Ensure that the wireless pendant is properly programmed to the lift system. Reset the circuit board and reprogram the wireless pendant. This supplemental information is provided with the Wireless Pendant. See "Programming the Wireless Pendant."

NOTE: The puddle light will flash three (3) times then beep three (3) times continuously if there is a low battery voltage condition. If this occurs, your car battery may be low. Contact your automotive service provider to check or replace the battery.

VI. CARE AND MAINTENANCE

CARE AND MAINTENANCE

Your lift system requires a minimal amount of care and maintenance. If you do not feel confident in your ability to perform the maintenance listed below, you may schedule inspection and maintenance at your authorized Harmar Dealer. The following areas require periodic inspection and/or care and maintenance. Failure to perform the required maintenance procedures at the required intervals may void your warranty.

Wiring Harness and Hand Control

- The wiring harness should be checked periodically for corrosion and/or decay. Contact your authorized Harmar Dealer if the wiring harness needs to be replaced.
- Avoid leaving the hand control in areas where it will be exposed to inclement weather or temperature extremes. Exposure to the elements may cause damage to the hand control.



PROHIBITED! Avoid exposure to rain, snow, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.

Lift Platform/Metal Components

- Check the lift platform for wear or damage. Contact your authorized Harmar Dealer for repair or replacement.
- The lift platform surface may become slippery if exposed to moisture (ice, snow, rain, mist/spray conditions, etc.). Use caution when loading/unloading a mobility device in these conditions and wipe off any excess moisture from the lift platform.
- Regularly inspect the metal lift components for scratches. Treat any problem areas with a rust inhibitor or metal sealant.

MAINTENANCE SCHEDULE

Perform prior to daily use

- Inspect all external electrical connectors for damage and replace if necessary.
- Check for damaged or loose hardware. Tighten or replace if necessary.

Perform every 6 months:

- Inspect all mounting hardware for defects and a secure fit. Any loose hardware should be tightened or replaced if necessary.
- Remove and inspect the pivot bolts on the parallel arms and lubricate or replace as necessary.

NOTE: Use only “petroleum-based anti-seize lubricant.”

Perform every 6 – 12 months:

- Lubricate chains with “general purpose petroleum-based grease.”
- Lubricate the truck drive shaft with “petroleum-based anti-seize lubricant” only.
- Inspect the base rollers and replace as necessary.
- If base rollers were replaced, readjust the elevator bolt for proper alignment of parallel arms.
- Inspect chain for proper tension and adjust as necessary.

NOTE: The chain should have a 1/2 in (1.27 cm) of deflection in either direction when the truck is fully extended contacting the front microswitch.

VI. CARE AND MAINTENANCE

Battery Replacement

To replace the battery in the wireless pendant:

1. Remove the back by gently prying apart the two halves of the wireless pendant at the seam. Once open, the internal components of the wireless pendant move freely. Take care not to drop or lose any of the internal components.
2. Remove the coin cell battery. **See figure 19.**
3. Slide the replacement battery in, positive side up. **See figure 20.**
4. Replace the back of the wireless pendant. It will snap into place.
5. Verify the function of the wireless pendant by pushing the up and down arrow buttons.

NOTE: *If there is any hesitation in the lift system's movement, the battery in the wireless pendant may need to be replaced.*

NOTE: *The wireless pendant battery should be replaced annually. However, if you experience diminished power or intermittent operation, replace the battery sooner.*

NOTE: *The wired hand control will always work regardless of the wireless pendant's battery level.*

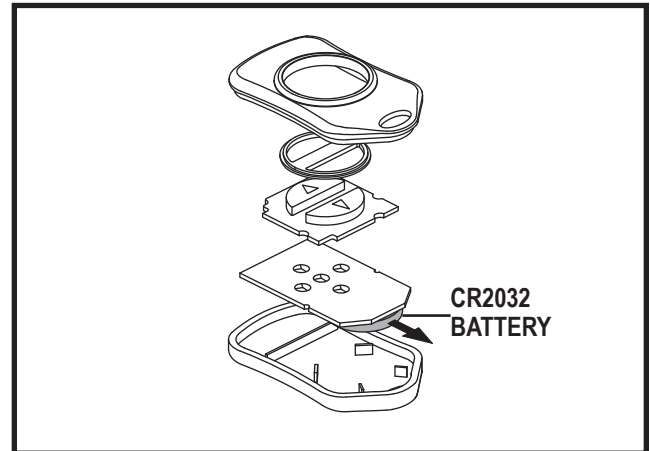


Figure 19. Battery Replacement

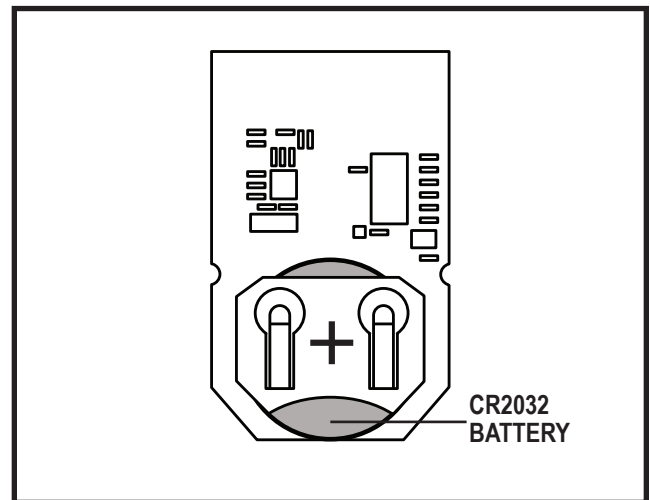


Figure 20. Battery Replacement

VI. CARE AND MAINTENANCE

Questions & Answers about Proposition 65

What is Proposition 65?

Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects, or other reproductive harm. These chemicals can be in the products that Californians purchase, in their homes or workplaces, or that are released into the environment. By requiring that this information be provided, Proposition 65 enables Californians to make informed decisions about their exposures to these chemicals.

Proposition 65 also prohibits California businesses from knowingly discharging significant amounts of listed chemicals into sources of drinking water. Proposition 65 requires California to publish a list of chemicals known to cause cancer, birth defects, or other reproductive harm. This list, which must be updated at least once a year, has grown to include approximately 900 chemicals since it was first published in 1987.

What types of chemicals are in the Proposition 65 list?

The list contains a wide range of naturally occurring and synthetic chemicals that include additives or ingredients in pesticides, common household products, food, drugs, dyes, or solvents. Listed chemicals may also be used in manufacturing and construction, or they may be byproducts of chemical processes, such as motor vehicle exhaust.

What does a warning mean?

If a warning is placed on a product label or posted or distributed at a workplace, a business, or in rental housing, the business issuing the warning is aware or believes that it is exposing individuals to one or more listed chemicals.

By law, a warning must be given for listed chemicals unless the exposure is low enough to pose no significant risk of cancer or is significantly below levels observed to cause birth defects or other reproductive harm.

Where can I get more information on Proposition 65?

If you have specific questions on the administration or implementation of Proposition 65, you can contact OEHHA's Proposition 65 program at P65.Questions@oehha.ca.gov, or by phone at (916) 445-6900.

VII. WARRANTY

THREE-YEAR TRANSFERABLE LIMITED WARRANTY

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

The 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 Harmar 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 Harmar
- Circumstances beyond the control of Harmar

Harmar cannot be held responsible for any defects in the motor vehicle in which the lift system is installed, defects in the lift system, and/or securement system caused by defects in any part of the motor vehicle, or damage to the motor vehicle caused by installation or operation of the lift system.

ONE-YEAR WARRANTY

The on-board battery is covered by a separate one (1) year warranty provided by the battery manufacturer. The batteries are not warranted by Harmar.

SERVICE CHECKS AND WARRANTY SERVICE

An authorized Harmar Dealer must perform warranty service. Do not return faulty parts to Harmar 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, warning, and notes in the owner's manual and those located on your Harmar lift product can result in personal injury or product damage and will void Harmar's product warranty.

There is no other express warranty.

IMPLIED WARRANTIES

Implied warranties, include 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 limitation 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.



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