

Read and understand this manual thoroughly before attempting to install or operate the lift. If you have any questions, please contact your Authorized Harmar Dealer.

Dealer Name & Contact Information:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Serial # of Your Lift: \_\_\_\_\_

Install Date: \_\_\_\_\_

### Contents

Peace-of-mind comes in many forms. It's knowing you can get up and down stairs on your own. It's regaining your independence. It's feeling secure each and every time you ride your stair lift—knowing you don't have to worry about power outages, or about parking it at a specific spot on the track. It's knowing you've made the best decision and acquired the right stair lift for you. That's the feeling you get when you own a Pinnacle™ Stair Lift from Harmar.

This energy-efficient stair lift is simple to operate, durable, and lightweight. Surprisingly compact when folded, the Pinnacle™ boasts a unique patented drive system, wireless remotes and intuitive operating controls with indicator lights.

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### SYMBOLS USED IN THIS MANUAL



**READ MANUAL** - Pay close attention to the instructions in the manual.



**CAUTION** - Hazardous situation. If not avoided, could result in serious damage to property.



**WARNING** - Hazardous situation. If not avoided, could result in serious injury to installer or user.

### INDICATIONS OF USE STATEMENT

The SL600 Pinnacle Stair Lift is to assist transfer of patients or mobility impaired persons, up and down between levels of a residential or commercial facility.



**Read & Understand this Manual in its Entirety Prior to Installation or Operation.**

Follow all operating procedures in order to avoid possible injury and/or property damage. If you do not understand any portion of installation or operation, please consult our technical service department or authorized dealer.

**Installation Site Electrical Requirements** - The lift shall be connected to a dedicated 120 V electrical circuit that is protected by a 15 AMP electrical circuit.

## Technical Specifications

Weight capacity: .....	350 lb
Stair angles: .....	32° - 52° *
Speed: .....	20 fpm
Shipping weight: .....	184 lb
Interchangeable side to side: .....	Yes
Operating power: .....	24 VDC battery
Power supply input: .....	120 VAC; 60 Hz
Power supply output: .....	29.1 VDC; 1.2 Amps
Drive system: .....	Worm/Rack
Rail: .....	Extruded aluminum
Covers: .....	ABS - flame retardant
Trips per hour: .....	10 max

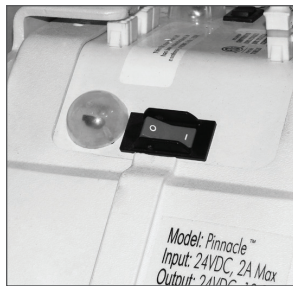
\*45° maximum per ASME A18.1. Over 45° may require a variance from state, city or county.

# Pinnacle Stair Lift

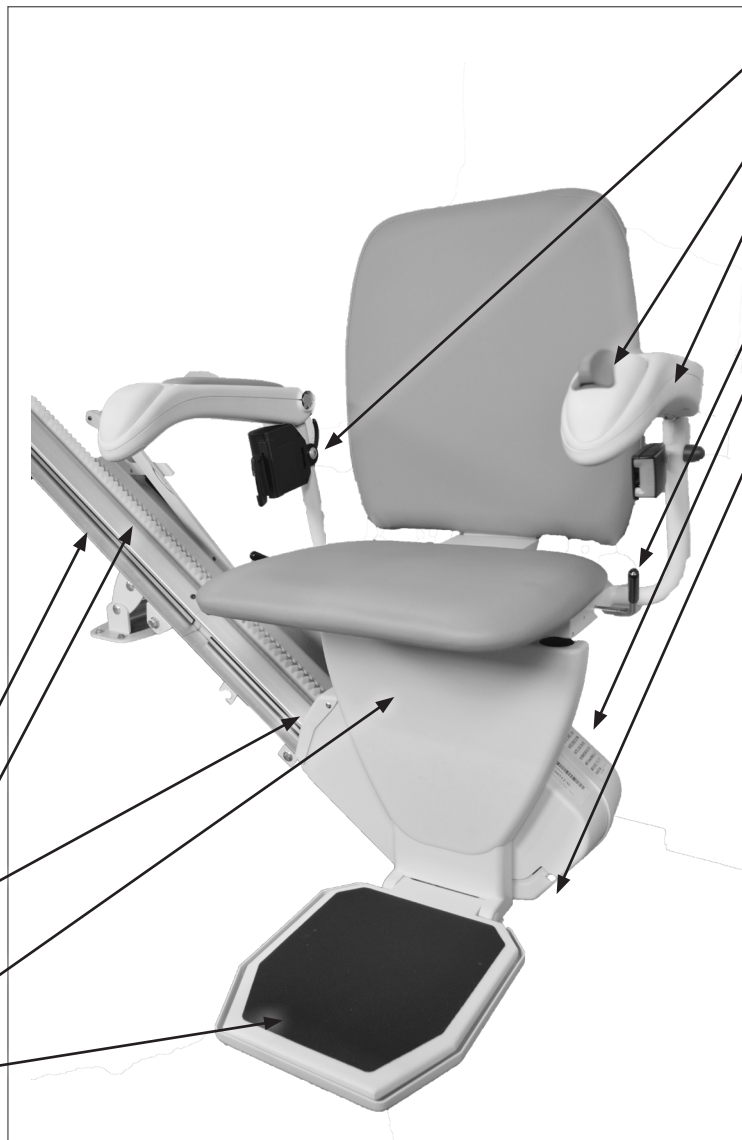
## Stair Lift Features



LED Indicator



On/Off Switch



- Seatbelt
- Up/Down Control
- Armrest
- Seat Swivel Lever
- Key Lock (Optional)
- Bottom Safety
- Obstruction Sensor



Remote Control



Manual Hand Crank

- Rail
- Rack
- Top Safety
- Obstruction Sensor
- Seat Swivel Safety
- Footrest Safety

Folding Rail Model Shown

## Safety Features

- There are spring loaded sensors on the top and bottom of the carriage, and the front, back and underside of the footrest. If any of these edges touches an obstruction the lift will halt immediately and the armrest LED indicator light will turn orange. The lift may only be driven away from the obstruction.
- An interlock on the swivel seat prevents the lift from being operated unless the seat is in its normal, locked position. The remote controls are disabled for a 15 second period after the armrest control is used.
- A retractable seat belt is provided and must be secured around the user to prevent an inadvertent fall.



## Controls

- The red "ON/OFF" switch is located on top of the chassis. This switch is normally left in the "ON" position (I). This switch can be turned "OFF" if you do not expect to use the lift for an extended period of time. Ensure that the lift is in the charging position within 3' of the top or bottom of the staircase.
- The main "UP/DOWN" control switch is located on the chassis. Use this switch for normal operation of the lift while in a seated in a secure position.
- There are "UP" and "DOWN" buttons on the remote call/send hand control units.
- There is a three-color LED indicator light on one armrest.
- Units equipped with a key switch, it is located on the chassis. Turn this off and remove the key when you want to ensure the lift cannot be used in your absence.

## Stair Lift Operation

**Step 1:** To turn the stair lift on, press the red "ON/OFF" switch located on the top of the carriage to the "ON" position (I) and ensure that the key switch (if equipped) is "ON." When the lift is turned "ON" a green light on the armrest and a single audible beep will indicate that the lift is ready for use.



### WARNING

*Do not carry pets or children on your lap while riding the stair lift. The lift is designed for use by only one person at a time.*

**Step 2:** To aid entry to the chair, the armrest on the entry side may be raised. When positioning yourself on the seat at the upper landing, ensure the seat is fully swiveled and locked in position for safety. The seat may be swiveled by depressing the swivel release handle on either side of the seat.



### WARNING

*Never attempt to operate the lift while standing up. Always sit in the center of the seat with the seat belt fastened around your waist.*

**Step 3:** Ensure that you are securely seated with seat belt fastened and armrests in down position before operating the lift. To operate the lift, continuously swivel the hand control in the direction in which you wish to travel.



### WARNING

*Keep your feet centered on the footrest while traveling up and down the stairs. Never dangle your feet off the footrest while riding the lift.*

# Pinnacle Stair Lift

## Stair Lift Operation (cont)

**Step 4:** If you release the control switch the lift will stop. Continue to press the control until you reach the landing. The lift will gently stop at the appropriate, preset point.

**Step 5:** To safely exit the lift, unbuckle the seat belt, support yourself by the armrests, rise and step off the footrest. At the upper landing, ensure that the seat is fully swiveled and locked before rising. If you do not intend to use the lift again immediately, the seat and armrests may be folded up to minimize obstruction to people walking on the stairs.



### WARNING

*When transferring in or out of the seat use the armrests to assist you. Ensure the seat is securely latched before transferring in or out.*

**Tip:** When leaving the lift at the bottom of the landing, you can use the call/send to place the lift back up in the stairwell up to 3' while maintaining charging connection.

**Step 6:** To operate the lift remotely, continuously press the appropriate up or down button on the call/send hand control unit. Like all infrared devices, the signal may be interrupted if the hand control unit is not in the line of sight of the front of the stair lift. If this happens the lift may temporarily stop but will restart immediately, as long as the call/send is pressed continuously.

If you are operating the lift remotely on behalf of another person, please ensure that they are securely seated with the seat belt engaged. Always keep the person in line of sight before commencing movement.

### Encountering an Obstruction

An amber light and single beep indicate that the lift has touched an obstruction. At this point, the lift may only be operated in the opposite direction of the obstruction. Clear the obstruction before proceeding.



### Folding Rail Operation

The folding rail option deploys automatically as the stair lift chassis descends, there is no need to stop or engage another control. It also retracts automatically when the stair lift chassis ascends so the rail will not protrude into a walkway or in front of a door. When you exit the stairlift at the lower landing, you may either leave it at the bottom, or, by using your call/send, elevate the stair lift chassis up into the stairwell just enough to raise the folding rail to the upright position. In either position, the stair lift will continue to be charged when not in use.

## Maintenance

The LED indicator light will turn red if there is a service issue. Turn the "ON/OFF" switch to the "OFF" position (O) and then back to the "ON" position (I). The lights should sequence red-amber-green. If the light does not return to green, please call your service representative.

## Battery Charger

The stair lift should be kept fully charged at all times. When the lift stops within three feet of the upper or lower landing it will charge automatically. The power supply should remain plugged in at all times and the lift may be left on charge indefinitely, as the charger will not overcharge. The stairlift must be turned on to enable battery charging. Batteries will not charge when lift is turned off.

If the light flashes orange and the lift beeps intermittently, the lift has been stopped away from the top or bottom charging stations. Please move the lift to either end of the rail to ensure the batteries remain fully charged.

## Care and Cleaning

The lift should require no technical maintenance to continue to operate at full capability. There is no grease or other lubricants used in the drive system, and no adjustments should be required. However, the lift should be inspected annually. The lift and rail should be kept clean. Dust can build up on surfaces, and soiling may occur. The upholstery and carriage can be cleaned with a damp, soapy cloth followed by a clean, damp cloth. Do not use abrasive cleansers as these can damage the finish. If heavy soiling occurs, clean by scrubbing lightly with a soft brush.

## Battery Inspection and Replacement

Batteries should be replaced, on average, every 1-2 years depending on degree of usage. Please work with your local Authorized Harmar Dealer for proper battery replacement.



**WARNING**

*Non-compliant batteries may lead to product malfunction.*



**WARNING**

*Annual inspection is critical to identify battery condition.*

## Manual Override Operation

If your lift fails to operate and the operator does not wish to dismount on the stairway, another person may use the manual override tool to lower (or raise) the lift to a landing. However please follow the instructions on the bottom safety flap of the lift and turn the lift off. Insert the manual override tool into the hole in the lower safety flap until it engages the motor shaft, and turn in the direction indicated.



**WARNING**

*Do not operate the lift with the manual override tool engaged.*

# Pinnacle Stair Lift

## Owner Information & Troubleshooting

### Owner Information

Thank you for purchasing an SL600 Pinnacle™ Stair Lift from Harmar. This is the most trouble-free stair lift on the market today. It is our hope this lift will provide the independence you want in your day-to-day life.

Date purchase \_\_\_\_\_

Lift serial number \_\_\_\_\_

If warranty work or service is needed, your dealer will need the data above to receive factory information or order parts for this lift.

### Troubleshooting

- If your lift does not operate, diagnose the problem by observing the LED indicator light on the armrest and listening to the beeps emitted:
- A green light indicates the lift is in operating mode and may be moved in either direction.
- An amber light indicates the lift is touching an obstruction and may be operated only in the direction away from the obstruction.
- A flashing amber light, accompanied by an intermittent beep for 30 seconds indicates the lift has been stopped off the charge station. This repeats every 5 minutes until the lift is returned

to the charge station. It is recommended that the lift be immediately moved to a charge station (located at either end of the rail).

- A red light indicates a problem that may require a service call. If the light remains red after attempting to reset the lift by turning it "OFF" and then "ON" again, please contact your local dealer or Harmar and describe the problem. A local technician will need to be contacted to repair the problem if it cannot be repaired over the phone.

### Minor faults

Single long beep (will reset once fault is cleared)

- Seat swiveled out of position
- Edge safety detected
- Under foot rest
- Current overload condition
- A Low battery voltage condition

### Pulsing Beep

Lift stopped off of charge strip. Will sound after 30 seconds for 30 seconds. It will repeat every 10 minutes until lift is operated or returned to charge strips.

### Major Tones

Tones	Beeps
Runaway .....	1
No Power .....	2
Conflicting Switches Footrest UP & Footrest DOWN .....	3
Conflicting Switches Obstruction UP & Obstruction Down .....	4
Conflicting Switches Footrest DOWN & Obstruction UP .....	5
Conflicting Switches Footrest UP & Obstruction DOWN .....	6
Conflicting Switches STOP UP & STOP DOWN switches both Detected .....	7
Conflicting Switches STOP UP & STOP DOWN switches both not Detected .....	8





# PINNACLE SL600- LIMITED LIFETIME WARRANTY CERTIFICATE



## LIMITED WARRANTY CERTIFICATE

Products Covered: SL600, SL600FR

PLEASE FILL OUT ALL FIELDS AND RETURN WITHIN TEN (10) DAYS OF PRODUCT INSTALLATION.

Mail completed form to Harmar, 2075 47th Street, Sarasota, FL 34234.

Harmar warrants to the original purchaser of an SL600 Series Pinnacle Stair Lift manufactured by Harmar to be free from material and mechanical defects in the motor, gearbox, rail, worm gear and gear rack for the Lifetime of the product with its original owner. Additionally, Harmar warrants the other parts and electrical components for a period of three (3) years, provided that the products have been installed, maintained and operated properly by an Authorized Harmar Distributor or Certified Harmar Installer.

### EXCEPTIONS TO THIS LIMITED WARRANTY ARE: PLEASE READ CAREFULLY

- Products that are rented have a 3-Year warranty applied to the rental company.
- Batteries are limited to one (1) year with a Harmar supplied/ approved charger.
- Pinnacle SL600's installed outdoors are not covered by this warranty and are not approved for outdoor use.
- Torn or dirty upholstery.
- Parts used that are not approved by Harmar.
- Labor fees for installation work, repair or service calls are not covered by this warranty.
- Damage resulting from improper installation or operation.
- Negligence, alterations, abuse or misuse of the equipment.
- Fire, flood, acts of God.
- Shipping damage.

This warranty starts on the date of initial product installation (not to exceed 180 days from the date of manufacture), provided the warranty certificate is completely filled out and returned to Harmar within ten (10) days of installation. Harmar and its dealers shall not be liable for any consequential, special or incidental damages arising out of the purchase or use of the unit or resulting from the breach of this Limited Warranty, or any implied warranty. The limit of liability of Harmar and its dealer hereunder shall be the unit's purchase price. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, or legal remedies, so these above limitations may not apply to you. All warranty claims must be reported to the dealer from whom the lift was purchased as the dealer has responsibility for handling your warranty claim. The dealer is to contact the Technical Services Department of Harmar and provide the serial number of the product along with a description and evidence of the defect(s) supporting a warranty claim. Dealers may charge for labor, service, travel, or other associated costs to make repairs, and such charges are not covered by this Limited Warranty. All parts used to replace defective materials must be genuine Harmar parts to be covered by this Limited Warranty. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state. The Limited Lifetime Warranty is non-transferrable.

Harmar will not be charged for labor, consequential damage or repair expenses. Harmar will not, under any circumstances, be liable for the loss of the use of its products or loss of time. Defective parts must be returned, if requested, prepaid, to Harmar for inspection prior to credit or replacement. At Harmar's discretion, any part found to have been modified, over-stressed, damaged by accident, or misused is not covered by this warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, INCLUDING ALL IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE LIMITED WARRANTY DESCRIBED HEREIN, AND HARMAR NEITHER ASSUMES, NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR HARMAR ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF HARMAR PRODUCTS.

### Product Information

Model: \_\_\_\_\_  
 Serial Number: \_\_\_\_\_  
 Feet of Track: \_\_\_\_\_ Install Date: \_\_\_\_\_

### Installer Information

Company Name: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

### Purchaser Information

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Installation Address (if different) \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

### Additional Information

How did you hear about Harmar?  
 Harmar Dealer     Friend / Family     Saw Harmar Product  
 Internet     Magazine     Other  
 I selected Harmar due to its (select all that apply):  
 Key Feature     Ease of Use     Recommendation  
 Harmar Dealer     Price / Value     Own other Harmar

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***PINNACLE*** Stair Lift

**SL600**  
**OWNER'S MANUAL**



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