

# HELIX CURVED STAIR LIFT OWNER'S MANUAL

CSL500

CSL510

CSL511

CSL560

CSL570

CSL580

CSL590



Read and understand this Owner's Manual before attempting to operate this stair lift. If you do not clearly understand an instruction, **contact your Authorized Harmar Dealer** before operating the lift.

 **Harmar**<sup>®</sup>  
We Lift Lives

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Your new Helix Curved Stair Lift is designed to provide many years of reliable use.  
We hope you enjoy it!

**DEVICE NAME:** Helix Curved Stair Lift

**INDICATIONS FOR USE:**

The intended use of the Helix Curved Stair Lift is to assist transfers of patients or mobility impaired persons up and down flights of stairs

# Safety

## SAFETY DEFINITIONS



This safety alert symbol appears with safety statements.

It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol.

### WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

### CAUTION

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

### NOTICE

*Indicates a situation which can cause damage to the lift and/or the environment, or cause the lift to operate improperly.*

*NOTE: Indicates a condition that should be followed in order for the lift to function in the manner intended.*

# HELIX CURVED STAIR LIFT FEATURES

The Helix Stair Lift can be folded at its parking position to save space.

The distance between rail and wall is much smaller, compared to other stair lifts. And, the maximum angle of inclination is higher than any other stair lift system. The high quality construction allows the use over most barriers and can be used in a home with two, three or more floors.





## Controls

- Emergency Safety (Optional)
- Key Lock (Optional)
- Power Switch (Circuit Breaker)
- Status Light
  - Red = Major Fault
  - Yellow = Obstruction
  - Green = Ready
- Power On Light
- Charging Light
- Test/Diagnostic Port  
This port enables you to connect a PC to the unit to check several functions.

## OPERATION

1. Fold down the armrests and seat before using the lift.
2. Tighten seat belt.
3. Start the run by using the rocker button on your arm rest, push the rocker button in the direction you want to ride and maintain pressure until the lift reaches its final position and stops automatically.
4. Use the seat swivel handle to turn the seat to dismount after it has reached the final stop (top position). It is now possible to fold up the foot support, seat, and armrests to save space.

*NOTE: A seat swivel locking device on the seat prevents the lift from being operated unless the seat is in its operating position.*

## POWER SUPPLY

The stair lift should be kept fully charged at all times. When the lift stops at an upper or lower landing it will charge automatically. The charger should be left plugged in at all times and the lift may be left on charge indefinitely. A green light indicates the supply is on.

## REMOTE CONTROL

Your Remote Control allows you to move your Stair Lift from its parked position. Just press the up or down button for the desired direction. Keep the button pressed until the lift reaches its final position and stops automatically.

### **WARNING**

**Before using the remote, always check that no one is in the process of getting on/off. The remote can move the unit when it is not in sight.**

*NOTE: When the Stair Lift stops in the parked position, ensure that the charger light is lit. It indicates the lift has stopped in the correct charging position.*

### **WARNING**

**Always use the seat belt when using your lift.**

## MID LEVEL PARKING

When the unit comes in contact with the mid-level charger, it will stop for about 3 - 5 seconds. If you release the remote or toggle it will charge at that location.

# Technical Specifications

Weight Capacity:	350 lb (158.8 kg)
Track (rail) Type:	Steel Tube, Powder Coated
Travel:	20' (6.1 m) Standard; 164' (50 m)Max
Average Number of Return Trips per Charge (varies with load, length):	10
Control in Armrest: (left or right hand operation)	Yes
Lift Mounts to Steps or Wall:	Steps
Minimum Folded Width:	15.3" (38.7 cm)
Minimum Footrest Height:	3" (7.6 cm)
Clear Distance Between Armrests:	20.5"- 23.6" (52.1 - 60 cm)
Floor to Seat Height:	22.3" (56.5 cm)
Minimum Wall to Stair Side of Rail:	4.7" (12 cm)
Seat Depth:	15" (38.1 cm)
Backrest Height From Top of Seat:	20.5" (52.1 cm)
Electrical Requirements:	120V AC 15A (240V AC optional)
Operation Power:	24V DC Battery
Speed:	20 fpm
*Max. Incline:	60°
Drive System:	Rack & Pinion Gear
Safety Features:	Direction Limit Switches Final Limit Switch Footrest Obstruction Switch Seat Swivel/Cut-off Switch Constant Pressure Controls Seat Belt Safety Edges Emergency Stop (Optional)
Safety Design Standards:	Complies with ASME A18.1 (2014) CAN/CSA B44.1, ASME A17.5 (2014) ETL 3148125
Warranty:	Limited Lifetime, 2-Year Parts, 1-Year Battery

\*Note: Average incline must not exceed 45° per ASME A18.1.

## DO

- Check that the armrest, footrest, and seat are in the correct position.
- Ensure that there are no barriers or items on the stairway
- Place your arms on the armrest and feet on the footrest for safe operation
- Use the seat belt and footrest at all times when riding the lift.

### **WARNING**

- **DO NOT stand on the lift while it is running**
- **DO NOT carry more than one person**
- **DO NOT use the lift in case of fire**

## SENSORS & SEAT SWIVEL HANDLE

Sensors on the top and bottom of the carriage, and both sides of the footrest will halt the stair lift immediately if they touch an obstruction. A seat swivel handle on the swivel seat prevents the lift from being operated unless the seat is in its normal, locked position.

## POWER SUPPLY

The green light should always be on IF the unit is plugged in. IF there is no light, check the wall outlet for power. If still NO light, contact your dealer.

## BEEPS

With RED status Light.

Conditions	# of Beeps	Conditions	# of Beeps
Runaway	1	Footrest DOWN and obstruction UP	6
12V Supply	2	Conflicting switches STOP UP and STOP DOWN switches both detected	7
Conflicting switches footrest Up and Footrest DOWN	3	Conflicting switches STOP UP and STOP DOWN switches both NOT detected	8
Conflicting switches obstruction	4	LIMIT switch detected	9
Footrest UP and obstruction DOWN	5		

# Maintenance

## OWNER CLEANING

To clean the rail, use a moistened cloth, if necessary. The seat can be wiped gently, using a soft cloth and a mild detergent.

## PROFESSIONAL MAINTENANCE AND SERVICE

For many years of enjoyable use, we recommend that the mechanical and electrical safety equipment of the lift be regularly inspected and maintained by a certified Harmar technician.

## 6 MONTH MAINTENANCE CHECKLIST:

### CHASSIS & RAIL

- Clean rail with mild soap & water
- Lubricate rail teeth with white lithium grease lightly
- Clean out sprocket cover
- Touch up any scratches with paint
- Check upper rollers (*wear, cracks, rolling*)
- Check lower roller (*wear, cracks, rolling*)
- Lubricate seat swivel and footrest

### SAFETY SWITCHES – ensure switches are working by activating each condition

- Seat (*locking and seat cut-off switch*)
  - Footrest Up (*lift stops in up direction*)
  - Footrest Down (*lift stops in down direction*)
  - Rail Guard Up (*lift stops in up direction*)
  - Rail Guard Down (*lift stops in down direction*)
  - Step Guard Up (*lift stops in up direction*)
  - Step Guard Down (*lift stops in down direction*)
  - Optional Emergency Switch On
  - Optional Emergency Switch Off
  - Optional Key Switch
- lift runs up and down with Emergency Stop button in run position and does not run when in stop position.*



- Chassis Lights On (power light "ON" when "I" is pushed on power switch)
- Chassis Lights Off (power light "OFF" when "O" is pushed on power switch)

## CHASSIS STOP

- Up Primary
- Up Final
- Down Primary
- Down Final
- Test Remotes (up and down buttons)

## CHARGING STATION CONTACTS

- Top (voltage reading: \_\_\_\_\_)
- Bottom (voltage reading: \_\_\_\_\_)
- Charger functionality & voltage ( \_\_\_\_\_)

## GEAR RACK SAFETY STOP

- Top (check tightness of stop)
- Bottom (check tightness of stop)

## MOUNTING BOLTS

- Check all rail bolts for tightness
- Check all leg bolts for tightness

## ANNUAL CHECKLIST

- Same as 6 Month Maintenance
- Replace batteries (date replaced: \_\_\_\_\_, voltage: \_\_\_\_\_)
- Replace batteries on remotes (date replaced: \_\_\_\_\_)

# Warranty

Your lift came with a separate warranty page. You must turn this page in within ten (10) days of purchase to register your lift. This warranty policy page must remain in your Owner's Manual for your records. Do not tear out this page.

Dealer/Installer Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

If you need service or warranty work, your dealer will require the information below to receive factory information or order parts for your Helix Curved Stair Lift.

Date Purchased: \_\_\_\_\_

Serial # of the Lift: \_\_\_\_\_

Harmar Mobility warrants its Helix Curved Stair Lift products against defects in material, mechanical defects in the motor, gearbox and rail structure, excluding labor costs, paint and covers, for the lifetime of the product. Additionally, Harmar warrants the other parts and electrical components for a period of two (2) years from date of retail purchase and one (1) year on batteries, provided that the products have been installed, maintained and operated properly. This warranty does not cover maintenance or adjustments. 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. This warranty becomes null and void if the product has been lost, damaged by accident, over-stressed, misused and/or neglected, or if the product has been modified in any way. Defective parts must be returned, prepaid, to Harmar at the address listed on page 11, for inspection prior to credit, repair or replacement, at Harmar's option. Harmar's sole obligation and the exclusive remedy under this warranty is limited to such credit, repair or replacement.

**THIS EXPRESS 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. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE.**

# HELIX CURVED STAIR LIFT WARRANTY

Please fill out all fields and return this page within ten (10) days of product purchase.

Fax completed form to 866-234-5680 or mail to:

Harmar  
Attn: Warranty Department  
2075 47th Street  
Sarasota, FL 34234

## PRODUCT INFORMATION

Model: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

## INSTALLER INFORMATION

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

## PURCHASER INFORMATION

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## ADDITIONAL INFORMATION

### How did you hear about Harmar?

- Harmar Dealer
- Internet
- Magazine
- Which \_\_\_\_\_
- Friend or Acquaintance
- Saw Harmar product somewhere
- Other \_\_\_\_\_

Do you have internet access  Yes  No

### I purchased my Harmar lift because of

- Style/Appearance
- Harmar Representative
- Previous Experience
- Ease of Use
- Recommendation
- Price/Value













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