

## Harmar AL100HD

# Harmar AL100HD Universal Scooter Lift Instruction Manual

Model: AL100HD

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, installation, and maintenance of your Harmar AL100HD Universal Scooter Lift. Please read this manual thoroughly before attempting to install or operate the lift to ensure proper function and user safety. The Harmar AL100HD is designed to transport mobility scooters on the exterior of a vehicle, utilizing a hitch mount system.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions could result in serious injury or damage to property.**

- Always verify vehicle and scooter compatibility before installation and use. Contact Harmar or your dealer if unsure.
- Ensure the lift is securely attached to the vehicle's hitch receiver.
- Do not exceed the maximum load capacity of 400 lbs (181 kg).
- Ensure the scooter is properly secured on the platform before driving.
- Keep hands and clothing clear of moving parts during operation.
- Regularly inspect the lift for any signs of wear, damage, or loose components.
- Do not operate the lift if any part is damaged or malfunctioning.
- Always use the key lock to prevent unauthorized operation.

*Legal Disclaimer Note:* It is crucial to verify compatibility between your vehicle (make, year, model) and your scooter/wheelchair (make, model) with the Harmar AL100HD lift. Incompatibility may lead to product non-returnability if not verified prior to shipment. Please ensure all necessary information is provided to your supplier for compatibility checks and to identify any required adapters.

## 3. PRODUCT OVERVIEW

The Harmar AL100HD is a fully automatic universal scooter lift designed for ease of use and secure transport. Key features include:

- **Capacity:** Designed to carry virtually any scooter up to 400 lbs (181 kg).
- **Automatic Operation:** Fully automatic lifting and lowering mechanism.
- **No Scooter Modifications:** Unique hold-down foot automatically secures the scooter without requiring alterations to the scooter itself.
- **Security Features:** Motor cover with key lock and toggle switch for controlled operation.
- **Platform Dimensions:** 27.5 inches x 39 inches, with an adjustable cradle extending up to 46 inches.
- **Hitch Compatibility:** Includes AL123/HD Class III hitch adapter.
- **Additional Features:** License plate holder and light, manual override capability.



*Image 3.1: The Harmar AL100HD Universal Scooter Lift. This image displays the complete lift assembly, including the vertical mast, control box with Harmar branding, the adjustable hold-down arm, and the perforated aluminum platform designed for scooter transport. The lift is shown ready for vehicle attachment.*

## 4. SETUP AND INSTALLATION

Installation of the Harmar AL100HD requires a compatible vehicle hitch receiver. It is recommended that installation be performed by a qualified technician or an individual with mechanical experience.

1. **Compatibility Check:** Before beginning, confirm that your vehicle's hitch class (Class III or higher recommended) and capacity are suitable for the AL100HD lift and your scooter's weight. Use the provided AL123/HD Class III hitch adapter if necessary.
2. **Mounting the Lift:** Insert the lift's main support arm into the vehicle's hitch receiver. Secure it using the appropriate hitch pin and clip. Ensure there is no excessive play.
3. **Electrical Connection:** Connect the lift's wiring harness to your vehicle's electrical system according to the detailed wiring diagram provided in the full installation guide (not included in this summary). This typically involves connecting to the vehicle's battery and tail light circuits for power and license plate illumination.
4. **Platform Assembly:** Attach the scooter platform to the lift mechanism as per the detailed

instructions. Ensure all bolts are tightened to the manufacturer's specifications.

5. **Adjustments:** Adjust the cradle extension on the platform to match the length of your scooter, ensuring it provides stable support.
6. **Initial Test:** Perform a test run of the lift's functions (up/down) without a scooter to confirm proper electrical connection and mechanical operation.

## 5. OPERATING INSTRUCTIONS

---

The Harmar AL100HD is designed for straightforward operation. Always ensure the vehicle is parked on a level surface and the parking brake is engaged before operating the lift.

1. **Prepare the Lift:** Unlock the motor cover with the provided key.
2. **Lower the Platform:** Use the toggle switch to lower the platform to the ground level.
3. **Load the Scooter:** Carefully drive or push your scooter onto the center of the lift platform. Ensure the scooter is positioned correctly for the automatic hold-down foot to engage.
4. **Secure the Scooter:** The unique hold-down foot will automatically engage and secure the scooter as the platform begins to rise. Verify that the scooter is stable and firmly held.
5. **Raise the Platform:** Use the toggle switch to raise the platform until it is fully retracted and locked into the transport position.
6. **Lock the Controls:** Lock the motor cover with the key to prevent accidental or unauthorized operation.
7. **Unloading:** Reverse the process. Unlock, lower the platform, disengage the scooter, and then raise the empty platform to the transport position and lock.
8. **Manual Override:** In case of power failure or malfunction, a manual override mechanism is available. Refer to the detailed product manual for specific instructions on how to use the manual override.

## 6. MAINTENANCE

---

Regular maintenance ensures the longevity and safe operation of your Harmar AL100HD lift.

- **Routine Inspection:** Periodically check all bolts, nuts, and fasteners for tightness. Inspect the platform, hold-down arm, and electrical connections for wear or damage.
- **Cleaning:** Keep the lift clean from dirt, road salt, and debris. Use a mild soap and water solution. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Lubricate moving parts, such as hinges and pivot points, with a suitable lubricant as recommended by Harmar (refer to the full product manual for specifics).
- **Electrical System:** Inspect wiring for fraying or corrosion. Ensure the license plate light is functional.
- **Storage:** When not in use for extended periods, ensure the lift is clean, dry, and stored in the upright, locked position.

## 7. TROUBLESHOOTING

---

This section addresses common issues you might encounter with your Harmar AL100HD lift. For more complex problems, contact customer support.

- **Lift Does Not Operate:**
  - Check if the key is inserted and turned to the "ON" position.

- Verify electrical connections to the vehicle battery.
- Check for blown fuses in the lift's wiring harness or vehicle's fuse box.
- Ensure the vehicle's engine is running or the ignition is on (if required by installation).

- **Scooter Not Secure:**

- Ensure the scooter is centered on the platform.
- Verify the automatic hold-down foot is engaging properly.
- Check for obstructions preventing the hold-down mechanism from fully securing the scooter.

- **Unusual Noises During Operation:**

- Inspect for loose components or fasteners.
- Check for debris obstructing moving parts.
- Lubricate pivot points if squeaking is present.

## 8. SPECIFICATIONS

Specification	Detail
<b>Model</b>	AL100HD
<b>Brand</b>	Harmar
<b>Load Capacity</b>	400 lbs (181 kg)
<b>Mounting Type</b>	Hitch Mount (Class III adapter included)
<b>Automotive Fit Type</b>	Universal Fit
<b>Platform Size</b>	27.5" x 39" (adjustable cradle extends up to 46")
<b>UPC</b>	819095020011

## 9. SUPPORT

For technical assistance, compatibility verification, or further inquiries regarding your Harmar AL100HD Universal Scooter Lift, please contact Harmar customer support or your authorized dealer.

It is highly recommended to verify compatibility of the lift with your specific vehicle and mobility device before purchase and installation. This ensures optimal performance and safety.

For detailed wiring diagrams, advanced troubleshooting, or specific maintenance schedules, please refer to the complete product manual provided by Harmar or visit the official Harmar website.