

M-Wave 122461

M-Wave Amsterdam Hard Box User Manual

Model: Amsterdam (122461)

Brand: M-Wave

1. INTRODUCTION

The M-Wave Amsterdam Hard Box is a robust and secure storage solution designed for bicycle rear racks. Constructed from high-quality, durable plastic, it offers protection against dust and water, making it ideal for city commuting or transporting valuables. This manual provides essential information for the proper installation, operation, and maintenance of your M-Wave Amsterdam Hard Box.



Figure 1: The M-Wave Amsterdam Hard Box in its closed and locked state, with keys inserted into the lock mechanism on the front. This image highlights the compact and secure design of the box.

2. SAFETY INFORMATION

- Ensure the hard box is securely mounted to your bicycle's rear rack before each ride. Loose mounting can lead to instability and potential accidents.
- Do not exceed the maximum weight capacity of your bicycle's rear rack or the hard box itself. Overloading can affect bicycle handling and safety.
- Distribute weight evenly within the box to maintain bicycle balance.
- Regularly inspect the mounting hardware and the box for any signs of wear, damage, or loosening. Replace or tighten components as necessary.
- While the box offers a locking function, it is designed to deter casual theft. For high-value items, additional security measures are recommended.
- Be aware of the increased width and height of your bicycle with the hard box installed, especially when navigating narrow spaces or passing through doorways.

3. PACKAGE CONTENTS

Upon opening the package, verify that all the following components are present:

- M-Wave Amsterdam Hard Box (1 unit)
- Keys for the locking mechanism (2 units)
- Mounting hardware (screws, washers, backing plates)

If any components are missing or damaged, please contact M-Wave customer support.

4. SETUP AND INSTALLATION

The M-Wave Amsterdam Hard Box is designed for fixing on the rear carrier of your bicycle. Installation requires drilling holes in the bottom of the box to align with your specific rear rack's mounting points. While the box features universal mounting holes, some adjustment may be necessary.

1. **Positioning the Box:** Place the hard box on your bicycle's rear rack. Determine the optimal position, ensuring it does not interfere with your seat or pedaling. Consider how far back it needs to be positioned to allow the lid to open fully (approximately 90 degrees) without hitting the seat.
2. **Marking Drill Points:** Carefully mark the exact locations on the bottom of the hard box where the mounting screws will pass through to align with your rear rack's attachment points. It is crucial to ensure these marks are accurate.
3. **Drilling Holes:** Using an appropriate drill bit size (slightly larger than the mounting screws), carefully drill holes at the marked points on the bottom of the hard box. Ensure the holes are clean and free of plastic burrs.
4. **Attaching to Rack:** Place the hard box back onto the rear rack, aligning the newly drilled holes with the rack's attachment points. Insert the provided mounting screws from the inside of the box, through the holes, and through the rack. Secure them from underneath the rack using the washers and backing plates.
5. **Tightening Hardware:** Hand-tighten all screws initially to ensure proper alignment. Once aligned, use a screwdriver to firmly tighten all mounting hardware. Do not overtighten, as this may damage the plastic.
6. **Final Check:** Gently attempt to wiggle the installed box. It should feel secure with minimal movement. If there is significant play, re-check the tightness of all mounting hardware.



Figure 2: The underside of the M-Wave Amsterdam Hard Box, illustrating the various pre-drilled mounting points. Users may need to select or drill additional holes to match their specific bicycle rack configuration.



Figure 3: The M-Wave Amsterdam Hard Box securely mounted on the rear rack of a bicycle, viewed from the side. This demonstrates the typical installed position and how it integrates with the bike's frame.

5. OPERATING INSTRUCTIONS

The M-Wave Amsterdam Hard Box is designed for simple and secure operation.

5.1 Opening the Box

1. If locked, insert one of the provided keys into the lock mechanism located on the front of the box and turn to unlock.
2. Unlatch the two closing parts located on either side of the front of the box by pulling them outwards.
3. Lift the lid upwards. The lid is designed to open widely for easy access to the 17-liter interior.



Figure 4: The M-Wave Amsterdam Hard Box with its lid fully open, revealing the spacious interior. A bicycle helmet is shown inside, demonstrating the capacity of the 17-liter storage area.



Figure 5: A hand demonstrating the action of lifting the lid of the M-Wave Amsterdam Hard Box. This illustrates the ease of access to the contents once the latches are released.

5.2 Closing and Locking the Box

1. Lower the lid until it sits flush with the base of the box.
2. Push the two closing parts inwards until they securely latch into place. You should hear a click.
3. To lock the box, insert a key into the lock mechanism and turn it until the lock engages. Remove the key.



Figure 6: A front view of the M-Wave Amsterdam Hard Box, highlighting the lock mechanism and the two keys. This image emphasizes the security feature of the product.



Figure 7: A side view of the M-Wave Amsterdam Hard Box, showcasing its overall dimensions and profile when closed. This perspective helps visualize its appearance on a bicycle rack.

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Video 1: This video demonstrates the process of opening, closing, and locking the M-Wave Amsterdam Hard Box. It shows how to operate the latches and the key lock for secure storage.

6. MAINTENANCE

To ensure the longevity and optimal performance of your M-Wave Amsterdam Hard Box, follow these maintenance guidelines:

- **Cleaning:** Wipe the exterior and interior of the box with a damp cloth and mild soap. Avoid abrasive cleaners or solvents that could damage the plastic.
- **Inspection:** Periodically check the integrity of the plastic shell for cracks or damage. Inspect the hinges, latches, and lock mechanism for smooth operation.
- **Mounting Hardware:** Regularly check that all mounting screws are tight. Vibrations from riding can cause them to loosen over time.
- **Lubrication:** If the lock mechanism becomes stiff, apply a small amount of graphite lubricant (do not use

oil-based lubricants) to the keyhole.

- **Storage:** When not in use, store the hard box in a cool, dry place away from direct sunlight to prevent material degradation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Box feels loose on the rack.	Mounting screws are loose.	Tighten all mounting screws securely. Ensure backing plates are properly positioned.
Lid does not close properly.	Obstruction in the box; latches misaligned; hinges damaged.	Remove any items obstructing the lid. Check latches for debris or damage. Inspect hinges for proper function.
Key is difficult to turn in the lock.	Lock mechanism is dry or dirty.	Apply a small amount of graphite lubricant to the keyhole. Insert and remove the key several times to distribute.
Water inside the box after rain.	Lid not fully closed/latched; gasket damaged.	Ensure the lid is fully closed and both latches are securely engaged. Inspect the gasket around the lid for tears or deformation.

8. SPECIFICATIONS

Model Name: M-Wave Amsterdam Hard Box

Model Number: 122461

Material: High-quality Plastic

Color: Black

Capacity: 17 Liters

Product Dimensions (L x W x H): 15.75" x 10.24" x 8.27" (40 cm x 26 cm x 21 cm)

Item Weight: 1880 Grams (approx. 4.14 lbs)

Mounting Type: Rack Mount (for rear carrier)

Closure Type: Latch, Gasket, Lockable (includes 2 keys)

Dust and Water Resistant: Yes



Figure 8: A side view of the M-Wave Amsterdam Hard Box, showcasing its physical form which corresponds to the detailed dimensions provided in the specifications.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to purchase replacement parts, please contact M-Wave customer service or visit the official M-Wave website. Specific warranty terms may vary by region and retailer.

Manufacturer: Cycle Force Group

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