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› RECTOO HR01 3-Foot Black Galvanized Industrial Iron Pipe Stair Handrail Instruction Manual

## RECTOO HR01

# RECTOO HR01 3-Foot Black Galvanized Industrial Iron Pipe Stair Handrail Instruction Manual

Model: HR01 | Length: 3 Feet

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## 1. INTRODUCTION

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This manual provides comprehensive instructions for the assembly, installation, usage, and maintenance of your RECTOO HR01 3-Foot Black Galvanized Industrial Iron Pipe Stair Handrail. Please read these instructions carefully before beginning installation to ensure safe and correct operation. Retain this manual for future reference.

## 2. PRODUCT OVERVIEW

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The RECTOO HR01 handrail is designed to provide stable support for stairs, lofts, attics, and other areas requiring a safety rail. Constructed from heavy-duty galvanized iron with a matte black powder-coated finish, it offers durability and resistance to corrosion and scratches. Its industrial design is suitable for various indoor and outdoor environments.



Figure 2.1: RECTOO HR01 3-Foot Black Galvanized Industrial Iron Pipe Stair Handrail with mounting screws.

### Key Features:

- **Premium Material:** High-quality heavy-duty galvanized iron with a corrosion-resistant coating.
- **Sturdy Construction:** Pipe thickness of 0.1 inch (1.2mm), each bracket supports up to 440 lbs (200 kg).
- **Smooth Surface:** Polished edges prevent cuts and scratches during use.
- **Adjustable Angle:** Components allow for angle adjustment to suit various stair inclines.
- **Versatile Application:** Suitable for indoor and outdoor use, including stairs, lofts, basements, and porches.

## 3. SAFETY INFORMATION

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Adhere to all local building codes and safety regulations during installation. Improper installation can lead to injury or product failure.

- Ensure the mounting surface (wall) is structurally sound and capable of supporting the handrail and anticipated load.
- Use appropriate fasteners for your wall type (wood studs, concrete, drywall).
- Do not overtighten screws, as this may damage the wall or the handrail components.
- Regularly inspect the handrail for any signs of loosening, damage, or corrosion.
- Keep children away from tools and small parts during assembly and installation.

## 4. PACKAGE CONTENTS

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Verify that all components are present and undamaged before beginning assembly.



Figure 4.1: Package contents for 3-foot handrail. Includes handrail tube, elbow connectors, flanges, screws, and anchors.

### For 3-Foot / 4-Foot Handrails:

- 1x Handrail Tube
- 2x Elbow Connectors
- 2x Flanges
- 8x Screws
- 8x Anchors

## 5. SETUP AND ASSEMBLY

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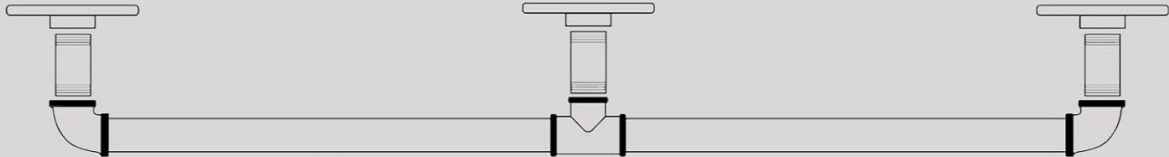
Follow these steps to assemble the handrail components before mounting to the wall.

## Assemble the Handrail



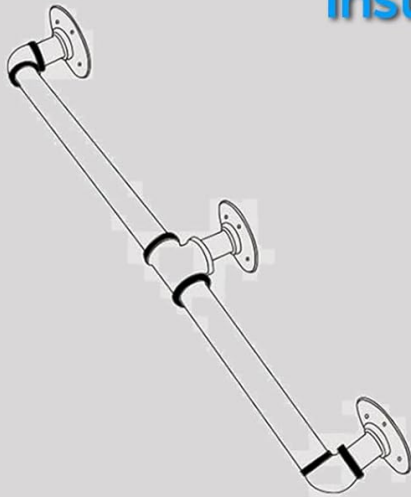
1 Use long pipes, T-connector(s) and elbows to assemble the handrail.

NOTE: DO NOT tighten the T-connectors and elbows with the pipe to make sure they directed in same direction.



2 Assemble the short pipes and flange plates on the handrail

## Install the Handrail



Put the handrail on the wall and mark the screw holes with a pencil.



Drill 1/4" pilot holes a minimum of 1-1/2 deep at the marked location.



Insert drywall anchors with a hammer.



Attach the handrail and drive the tapping screws to fasten the product on the wall.

Figure 5.1: Diagram illustrating the assembly and installation steps for the handrail.

1. Use the long pipes, T-connectors (if applicable for longer models), and elbow connectors to assemble the main handrail structure.
2. **Important:** Do not fully tighten the T-connectors and elbows with the pipe at this stage. Allow for slight movement to ensure proper alignment during wall mounting.
3. Assemble the short pipes and flange plates onto the handrail structure.

## 6. INSTALLATION

Proper installation is crucial for the handrail's stability and safety.

1. **Positioning:** Hold the assembled handrail against the wall at the desired height and angle. Use a level to ensure it is straight.
2. **Marking Holes:** Using a pencil, mark the screw hole locations through the flange plates onto the wall.
3. **Drilling Pilot Holes:** Drill pilot holes at the marked locations. For drywall, a 1/4-inch drill bit is typically recommended, with a minimum depth of 1-1/2 inches. For concrete or masonry, use an 8mm (5/16-inch) drill bit. Adjust drill bit size based on the specific anchors provided or chosen for your wall type.
4. **Inserting Anchors:** Insert the drywall anchors (or appropriate anchors for your wall type) into the pilot

holes. Tap them gently with a hammer until flush with the wall surface.

5. **Attaching Handrail:** Align the handrail flanges with the installed anchors. Drive the provided tapping screws through the flanges and into the anchors to secure the handrail firmly to the wall.
6. **Final Tightening:** Once the handrail is securely mounted, fully tighten all connections between the pipes and connectors.

## 7. USAGE

The RECTOO HR01 handrail is designed to provide support and stability for individuals navigating stairs or other elevated surfaces. It is suitable for use by children, adults, the elderly, and individuals with mobility challenges.



Figure 7.1: The handrail enhances safety for various users, including the elderly, children, individuals with disabilities, and pregnant women.

- Always use the handrail for support when ascending or descending stairs.
- Avoid hanging heavy objects on the handrail, as this may exceed its weight capacity or compromise its stability.
- Ensure hands are clean and dry for a secure grip.

## 8. MAINTENANCE

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Regular maintenance will prolong the life and appearance of your handrail.

- **Cleaning:** Wipe the handrail regularly with a soft, damp cloth to remove dust and dirt. For stubborn marks, use a mild soap solution and dry thoroughly. Avoid abrasive cleaners or harsh chemicals that could damage the finish.
- **Inspection:** Periodically check all mounting screws and connections to ensure they remain tight. Retighten any loose fasteners.
- **Corrosion Check:** Although the handrail is galvanized and powder-coated for corrosion resistance, inspect for any signs of rust, especially in outdoor installations or humid environments. Address any rust spots promptly with appropriate rust-inhibiting paint.
- **Damage Assessment:** Inspect the handrail for any dents, bends, or other damage that could compromise its structural integrity. Replace damaged components if necessary.

## 9. TROUBLESHOOTING

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If you encounter issues with your handrail, consider the following:

- **Handrail feels loose:** Check all mounting screws and pipe connections. Ensure they are fully tightened. If mounting into drywall, verify that the anchors are securely seated and not stripped. Consider using stronger anchors if the wall material is insufficient.
- **Difficulty aligning pipes during assembly:** Loosely assemble all components first, allowing for slight rotation and adjustment. Once the handrail is positioned on the wall and marked, then tighten all connections.
- **Rattling sound:** Ensure all threaded connections are fully tightened. For persistent rattling, a small amount of thread locker (e.g., green Loctite, non-permanent) can be applied to the threads during assembly.
- **Scratches on finish:** Minor scratches can sometimes be touched up with a matte black paint suitable for metal.

## 10. SPECIFICATIONS

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Attribute	Specification
Brand	RECTOO
Model	HR01
Material	Galvanized Iron
Color	Black
Finish Type	Powder Coated
Pipe Diameter	1.26 inches
Pipe Thickness	0.1 inches (1.2mm)
Length	3 Feet (36 inches)
Maximum Weight Capacity	440 Pounds (200 kg)
Installation Method	Screw-In (Wall Mounted)
Product Dimensions	36 x 2.75 x 0.04 inches (approximate, for 3ft model)
Item Weight	3.49 pounds (1.59 kg)

## 11. WARRANTY AND SUPPORT

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RECTOO products undergo strict quality inspection. If you encounter any problems during use, please contact RECTOO customer service. We are committed to providing support and will respond within 24 hours. For assistance, please visit the RECTOO Store on Amazon or refer to your purchase documentation for specific contact information.