

Erico BC400

Erico BC400 Steel Beam Clamp Instruction Manual

Model: BC400

1. INTRODUCTION

This manual provides essential information for the safe and effective installation and use of the Erico BC400 Steel Beam Clamp. The BC400 is designed for attaching a 3/8 inch threaded rod to steel beams, offering a secure and reliable connection for various applications. Please read these instructions thoroughly before installation.

2. SAFETY INFORMATION

Always prioritize safety during installation and use. Failure to follow these safety guidelines may result in injury or damage to property.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the beam clamp is suitable for the intended load and application. Consult local building codes and engineering specifications.
- Verify the structural integrity of the steel beam before attachment.
- Do not overtighten the clamp, as this may damage the beam or the clamp itself.
- Do not use damaged or modified clamps.
- Keep children and unauthorized personnel away from the work area.

3. PRODUCT COMPONENTS

The Erico BC400 Steel Beam Clamp consists of the following primary components:

- **Clamp Body:** The main steel structure that grips the beam.
- **Set Screw:** A threaded screw used to secure the clamp to the beam.
- **Threaded Hole:** A 3/8 inch threaded opening for attaching a threaded rod.



Figure 1: Angled view of the Erico BC400 Steel Beam Clamp. This image illustrates the clamp's body, the visible 'CADDY BC400' branding, and the precisely machined 3/8 inch threaded hole designed for rod attachment.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Erico BC400 Steel Beam Clamp:

1. **Select Location:** Identify a suitable location on the steel beam that can support the intended load. Ensure the beam's flange thickness is within the clamp's specified range.
2. **Position Clamp:** Place the Erico BC400 clamp onto the edge of the steel beam flange. The open end of the clamp should fit over the flange.
3. **Insert Set Screw:** Insert the set screw into the designated hole on the clamp body.
4. **Tighten Set Screw:** Using an appropriate wrench, tighten the set screw firmly against the beam flange. Ensure the clamp is securely gripping the beam and does not wobble. Do not overtighten.
5. **Attach Threaded Rod:** Thread a 3/8 inch threaded rod into the threaded hole on the underside of the clamp. Hand-tighten first, then use a wrench to secure it firmly.



Figure 2: Top-down view of the Erico BC400 Steel Beam Clamp. This image illustrates the clamp's internal structure and the set screw mechanism, showing how it engages with the beam flange.



Figure 3: Side view of the Erico BC400 Steel Beam Clamp. This perspective clearly shows the set screw fully inserted into the clamp body, ready to be tightened against a steel beam flange for secure attachment.

5. OPERATING INSTRUCTIONS

Once installed, the Erico BC400 beam clamp provides a fixed point for suspending various components using a 3/8 inch threaded rod. Ensure that the rod is fully engaged with the clamp's threads and that all connections are secure before applying any load. Regularly inspect the clamp and rod for any signs of loosening or wear, especially in high-vibration environments.

6. MAINTENANCE

The Erico BC400 Steel Beam Clamp is designed for durability and requires minimal maintenance. However, periodic inspection is recommended:

- **Visual Inspection:** Regularly check the clamp for any signs of corrosion, cracks, deformation, or other damage.
- **Tightness Check:** Periodically verify that the set screw remains tight against the beam flange and that the threaded rod is securely fastened.

- **Cleaning:** If necessary, clean the clamp with a dry cloth to remove dust or debris. Avoid harsh chemicals that could damage the electrogalvanized finish.
- **Replacement:** Replace any clamp that shows signs of significant wear or damage immediately.

7. TROUBLESHOOTING

If you encounter issues with the Erico BC400 Steel Beam Clamp, consider the following:

- **Clamp Not Securing:**
 - Ensure the beam flange thickness is compatible with the clamp's design.
 - Verify the set screw is fully engaged and tightened.
- **Threaded Rod Loose:**
 - Confirm the rod is 3/8 inch in diameter and has compatible threading.
 - Ensure the rod is threaded deeply enough into the clamp's hole and tightened.
- **Visible Damage:** If the clamp shows any signs of bending, cracking, or severe corrosion, discontinue use immediately and replace it.

8. SPECIFICATIONS

Model Number	BC400
Rod Size	3/8 Inch
Material	Alloy Steel
Finish	Electrogalvanized
Dimensions (L x W x H)	2 x 3 x 1 inches
Item Weight	2 pounds
Color	Silver
UPC/GTIN	782856194002

9. WARRANTY AND SUPPORT

Erico products are manufactured to high standards and are backed by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, technical support, or assistance with your Erico BC400 Steel Beam Clamp, please refer to the official Erico website or contact their customer service department. Keep your purchase receipt for warranty claims.
Erico Official Website: www.erico.com

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Question

Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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