RIDGID 40205

RIDGID 40205 BC510 Bench Chain Vise Instruction Manual

Model: 40205

Introduction

The RIDGID 40205 BC510 Bench Chain Vise is designed for securely holding pipes and fittings for various tasks such as cutting, threading, and assembly. This manual provides essential information for the safe and effective use of your vise, ensuring optimal performance and longevity.



Image: The RIDGID 40205 BC510 Bench Chain Vise, showcasing its robust cast iron construction and chain mechanism.

Safety Information

Always read and understand all safety warnings and instructions before operating this tool. Failure to follow warnings and instructions may result in serious injury.

- Wear appropriate personal protective equipment (PPE), such as safety glasses, when operating the vise.
- Ensure the vise is securely mounted to a stable workbench before use.
- Do not overtighten the chain, as this can damage the workpiece or the vise.

- Keep hands and fingers clear of moving parts during operation.
- Use the correct size chain for the workpiece to ensure a secure grip.

Setup

1. **Unpacking:** Carefully remove the vise from its packaging. Inspect for any shipping damage.
2. **Mounting:** Position the vise on a sturdy workbench. Use appropriate bolts and washers to secure the vise through the designated mounting holes. Ensure the vise is stable and does not wobble.
3. **Familiarization:** Identify the chain, crank handle, and jaws.

Operating Instructions

1. **Opening the Vise:** Rotate the crank handle counter-clockwise to loosen the chain and open the jaws.
2. **Positioning the Workpiece:** Place the pipe or fitting into the vise jaws. Ensure it is centered and rests firmly against the base.
3. **Securing the Workpiece:** Wrap the chain around the workpiece and engage it with the locking mechanism. Rotate the crank handle clockwise to tighten the chain, securing the workpiece firmly in place. Do not overtighten.
4. **Performing Work:** Once the workpiece is secure, proceed with your task (e.g., cutting, threading).
5. **Releasing the Workpiece:** Rotate the crank handle counter-clockwise to loosen the chain, then disengage the chain and remove the workpiece.



Image: The RIDGID BC510 Bench Chain Vise demonstrating a pipe securely held within its chain and jaws, ready for work.

Maintenance

- **Cleaning:** After each use, clean the vise jaws and chain to remove any debris, metal shavings, or dirt. Use a stiff brush if necessary.
- **Lubrication:** Periodically apply a light coat of machine oil to the chain and moving parts of the crank mechanism to ensure smooth operation and prevent rust.
- **Inspection:** Regularly inspect the chain for wear, damage, or stretched links. Check the jaws for excessive wear or damage. Replace any worn or damaged parts immediately.
- **Storage:** Store the vise in a dry environment to prevent corrosion.

Troubleshooting

Problem	Possible Cause	Solution
Workpiece slips	Chain not tight enough; Worn jaws; Incorrect chain size	Tighten chain; Inspect and replace jaws if worn; Use appropriate chain for workpiece diameter
Crank handle stiff	Lack of lubrication; Dirt/debris in mechanism	Lubricate moving parts; Clean mechanism thoroughly
Vise wobbles	Improper mounting	Ensure vise is securely bolted to a stable surface

Specifications

- **Model:** 40205 (BC510 Bench Chain Vise)
- **Brand:** RIDGID
- **Material:** Cast Iron Base with Anchored Crank Handle
- **Item Dimensions (L x W x H):** 11.3 x 11.3 x 5.3 inches
- **Item Weight:** 12 Pounds
- **Color:** Red
- **UPC:** 095691402059
- **Manufacturer:** StandardPlumbing: Kohler

Warranty and Support

This RIDGID product is covered by a manufacturer's warranty. For specific warranty details and terms, please refer to the documentation included with your purchase or visit the official RIDGID website.

For technical assistance, replacement parts, or further inquiries, please contact RIDGID customer support or visit the RIDGID Store on Amazon.

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