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Model: #3051

1. INTRODUCTION

The WOLFCRAFT #3051 Corner Clamp is a versatile tool designed to assist in joining materials at a 90-degree angle. Its spring-loaded mechanism and sliding central pad allow for easy and secure clamping of various board thicknesses, making it ideal for woodworking projects such as constructing boxes, shelves, and frames.

This manual provides essential information for the safe and effective use of your corner clamp.

2. SAFETY INFORMATION

Always observe basic safety precautions when using any tools. Failure to do so may result in injury or damage to the workpiece.

- **Wear appropriate personal protective equipment:** Always wear safety glasses to protect your eyes from flying debris.
- **Ensure a stable work environment:** Work on a clean, well-lit, and stable surface.
- **Secure your workpiece:** Always ensure the materials being clamped are stable and will not shift during assembly or fastening.
- **Inspect the tool:** Before each use, check the clamp for any signs of damage or wear. Do not use a damaged tool.
- **Keep hands clear:** Be mindful of the clamping mechanism to avoid pinching fingers.

3. PRODUCT OVERVIEW

The WOLFCRAFT #3051 Corner Clamp features a robust design for reliable 90-degree clamping. It consists of two main clamping jaws, a spring-loaded mechanism for quick adjustment, and a unique sliding central pad.



Image 1: The WOLFCRAFT #3051 Corner Clamp. This image shows the overall design of the clamp, highlighting its jaws and spring mechanism, ready for use in woodworking projects.

4. SETUP

Setting up the WOLFCRAFT #3051 Corner Clamp is straightforward due to its spring-loaded design.

1. **Prepare your materials:** Ensure the edges of the boards you intend to join are clean, straight, and cut to the correct dimensions for a 90-degree joint.
2. **Position the clamp:** Place the corner clamp over the corner where the two boards meet. The spring mechanism will automatically adjust to hold the boards.
3. **Adjust for thickness:** The central pad of the clamp is designed to slide, allowing it to accommodate boards of different thicknesses (between 10mm and 22mm) while maintaining proper alignment. Ensure both boards are firmly seated against the clamp's jaws.
4. **Verify alignment:** Double-check that the boards are perfectly aligned at a 90-degree angle before proceeding with fastening.

5. OPERATING INSTRUCTIONS

The #3051 Corner Clamp simplifies the process of assembling right-angle joints.

1. **Place boards:** Bring the two boards you wish to join together at the desired 90-degree angle.
2. **Apply clamp:** Position the WOLFCRAFT #3051 Corner Clamp over the corner. The spring-loaded jaws will automatically grip the boards.
3. **Secure the joint:** The clamp holds the boards firmly in place, freeing your hands to apply adhesive, drill pilot holes, or insert fasteners (screws, nails, dowels).
4. **Multiple clamps for larger projects:** For larger constructions like boxes or frames, it is recommended to use multiple clamps. For example, to construct a four-corner box, using clamps on both the top and bottom of each corner would require a total of eight clamps (four corners x two

clamps per corner). Note: One set of WOLFCRAFT #3051 Corner Clamps typically contains two pieces.

5. **Remove clamp:** Once the adhesive has set or fasteners are secure, gently remove the clamp by pulling the jaws apart.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your corner clamp.

- **Cleaning:** After each use, wipe down the clamp with a dry cloth to remove any sawdust, glue residue, or other debris. For stubborn glue, a damp cloth can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a small amount of light machine oil to the sliding mechanisms and pivot points to ensure smooth operation.
- **Storage:** Store the clamp in a dry environment, away from excessive moisture, to prevent rust. Keep it in a designated place to protect it from damage.
- **Inspection:** Regularly inspect the clamp for any signs of wear, damage, or deformation, especially on the clamping surfaces and spring mechanism. Replace the clamp if it shows significant damage that could affect its performance or safety.

7. TROUBLESHOOTING

If you encounter issues while using your WOLFCRAFT #3051 Corner Clamp, consider the following:

- **Boards not holding securely:**
 - Ensure the board thickness is within the 10mm-22mm range.
 - Check that the boards are fully seated against the clamp's jaws.
 - Inspect the clamp for any damage to the spring or jaws that might reduce clamping force.
- **Uneven joint:**
 - Verify that the edges of your boards are cut precisely at 90 degrees.
 - Ensure the boards are flush against the clamp's reference surfaces.
 - Check for any debris between the clamp and the workpiece.
- **Difficulty in placing or removing clamp:**
 - Ensure the boards are not excessively thick or thin for the clamp's range.
 - Check for any obstructions or damage to the spring mechanism.

8. SPECIFICATIONS

- **Model:** #3051
- **Brand:** WOLFCRAFT
- **Compatible Board Thickness:** 10mm - 22mm
- **Clamping Angle:** 90 degrees
- **Quantity per Set:** 2 pieces (as typically sold)
- **Primary Use:** Woodworking, DIY projects (boxes, shelves, frames)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact your retailer or the official WOLFCRAFT customer service. Keep your purchase receipt as proof of purchase.

For more information about WOLFCRAFT products, please visit the official WOLFCRAFT website.