

Grizzly Industrial H5781

Grizzly H5781 Optical Punch Set Instruction Manual

Brand: Grizzly Industrial

INTRODUCTION

The Grizzly H5781 Optical Punch Set is designed for precise layout work, enabling users to accurately mark and punch locations on various materials. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your optical punch set.

Key features include:

- Magnifying lens with cross hairs for accurate alignment.
- Interchangeable punches: 150-degree and 60-degree center punches.
- Durable construction for critical layout tasks.
- Supplied with a protective wooden case for storage.

SAFETY INFORMATION

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

- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from flying debris when striking the punch.
- **Stable Workpiece:** Ensure your workpiece is securely clamped or held to prevent movement during punching.
- **Proper Striking:** Use a suitable hammer and strike the punch firmly and squarely. Avoid glancing blows.
- **Cleanliness:** Keep the optical components clean to ensure clear visibility and accurate alignment.
- **Storage:** Store the set in its wooden case when not in use to protect the components from damage and dust.

PACKAGE CONTENTS

Upon opening the wooden case, verify that all components are present and undamaged:

- Optical Punch Base
- Bull's Eye and Cross Hair Magnifying Lens
- 150-Degree Center Punch

- 60-Degree Center Punch
- Wooden Storage Case

SETUP

The Grizzly H5781 Optical Punch Set requires minimal setup before use.

1. Open the wooden storage case and carefully remove the optical punch base, magnifying lens, and desired center punch.
2. Insert the magnifying lens into the top opening of the optical punch base. Ensure it sits securely.
3. Place the workpiece on a stable, flat surface.



Image: The Grizzly H5781 Optical Punch Set, showing the main optical punch body, the magnifying lens, and the two interchangeable center punches, all neatly arranged within its wooden storage case.

OPERATING INSTRUCTIONS

Follow these steps for accurate marking with your optical punch set:

1. **Prepare Workpiece:** Mark the desired punch location on your workpiece with a fine line or cross.
2. **Position Optical Base:** Place the optical punch base, with the magnifying lens inserted, directly over the

marked location on your workpiece.

3. **Align Cross Hairs:** Look down through the magnifying lens. Carefully adjust the position of the optical punch base until the cross hairs in the lens are precisely aligned with the mark on your workpiece. Ensure the base is stable and not moving.
4. **Remove Lens:** Once alignment is confirmed, carefully remove the magnifying lens from the optical punch base.
5. **Insert Punch:** Select the appropriate center punch (150-degree or 60-degree) and insert it into the top opening of the optical punch base. The punch should fit snugly into the hole previously occupied by the lens.
6. **Strike Punch:** While holding the optical punch base firmly against the workpiece to prevent movement, strike the top of the inserted center punch with a hammer. A single, firm tap is usually sufficient to create a clear center mark.
7. **Inspect Mark:** Remove the optical punch base and inspect the created center mark for accuracy.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Grizzly H5781 Optical Punch Set.

- **Cleaning:** After each use, wipe down the metal components with a clean, dry cloth to remove any dust or debris. For the magnifying lens, use a soft, lint-free cloth specifically designed for optics. Avoid abrasive cleaners or solvents.
- **Lubrication:** Periodically apply a light coat of machine oil to the metal punches to prevent rust, especially if storing for extended periods in humid conditions.
- **Storage:** Always store the optical punch set in its provided wooden case. This protects the delicate optical lens and the precision ground punches from damage, dust, and corrosion.
- **Inspection:** Regularly inspect the punches for wear or damage. Replace any worn or damaged components to maintain accuracy.

TROUBLESHOOTING

If you encounter issues with the accuracy or performance of your optical punch set, consider the following:

- **Inaccurate Punch Mark:**
 - Ensure the optical punch base is held firmly and does not shift when removing the lens or inserting the punch.
 - Verify that the cross hairs are precisely aligned with your workpiece mark before removing the lens.
 - Check that the workpiece is stable and not moving during the punching process.
 - Inspect the tip of the center punch for wear or damage that might affect its point.
- **Difficulty Viewing Through Lens:**
 - Clean the magnifying lens with a soft, lint-free cloth.
 - Ensure adequate lighting in your workspace. The optical design relies on ambient light for illumination.
- **Punch Not Making a Clear Mark:**
 - Ensure you are using a hammer of appropriate weight and striking the punch with sufficient force.
 - Check the tip of the center punch for dullness; sharpening may be required if heavily used.

SPECIFICATIONS

Model Number	H5781
Part Number	H5781
Brand	Grizzly Industrial
Product Dimensions	12.45 x 24.13 x 4.32 cm
Item Weight	499 g (1.1 Pounds)
Material	Metal
Color	Silver Or Gray
Operation Mode	Manual
UPC	690550157813

WARRANTY AND SUPPORT

For specific warranty information regarding your Grizzly H5781 Optical Punch Set, please refer to the documentation provided at the time of purchase or contact Grizzly Industrial directly. Warranty terms may vary based on region and retailer.

For technical support, replacement parts, or further assistance, please contact Grizzly Industrial customer service through their official website or the contact information provided with your product.