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› Stanley Bailey 1-16-416 Wood Chisel Set Instruction Manual

Stanley 1-16-416

Stanley Bailey Wood Chisel Set Instruction Manual

Model: 1-16-416

Brand: Stanley

INTRODUCTION

This manual provides essential information for the safe and effective use, maintenance, and care of your Stanley Bailey 1-16-416 Wood Chisel Set. Please read this manual thoroughly before first use and retain it for future reference.

Product Overview

The Stanley Bailey 1-16-416 Wood Chisel Set includes six high-quality wood chisels designed for precision woodworking. Each chisel features a durable forged blade with beveled edges made of hardened steel, ensuring a precise cutting edge. The chisels are equipped with lacquered ash wood handles and an American-style ferrule for comfortable and secure grip. A plastic cap is provided for each chisel to protect the cutting edge when not in use. The set comes in a transparent storage case for convenient organization and transport.



Figure 1: Stanley Bailey Wood Chisel Set (Model 1-16-416) in its transparent storage case, with chisels displayed.

Key Features

- **Functional Blade:** Forged blade with beveled edges made of hardened alloy steel.
- **Sharp and Durable:** Sharpenable over the entire surface, with a protective plastic cap for the cutting edge.
- **Ergonomic Design:** Elegant lacquered ash wood handle with an American-style ferrule for comfortable and secure handling.
- **Convenient Storage:** Supplied in a transparent case for easy organization and protection.
- **Set Contents:** Includes 6 wood chisels in common sizes (6, 10, 12, 16, 20, and 25 mm).

Safety Information

Always prioritize safety when using hand tools. Improper use can lead to injury. Follow these guidelines:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.

- Ensure your workpiece is securely clamped or held before beginning work.
- Always cut away from your body.
- Keep chisels sharp. A dull chisel requires more force and is more likely to slip.
- Never use a chisel as a pry bar, screwdriver, or for striking metal.
- Store chisels with their protective caps on in the provided case when not in use.
- Keep out of reach of children.

SETUP

Your Stanley Bailey Wood Chisel Set comes ready for use, though a preliminary sharpening is recommended for optimal performance.

1. **Unpacking:** Carefully remove the chisel set from its packaging. Inspect all chisels and the storage case for any signs of damage.
2. **Initial Sharpening:** While chisels are reasonably sharp out of the package, a professional sharpening or honing with a sharpening stone is recommended to achieve the finest edge for precision work. Refer to the "Maintenance" section for sharpening guidelines.
3. **Familiarization:** Identify the different chisel sizes (6, 10, 12, 16, 20, and 25 mm) and their corresponding slots in the transparent case.

OPERATING INSTRUCTIONS

Wood chisels are versatile tools used for shaping, carving, and jointing wood. Proper technique ensures safety and quality results.

Basic Chisel Use

- **Grip:** Hold the chisel firmly with one hand on the handle and the other guiding the blade close to the cutting edge.
- **Cutting Direction:** Always cut with the bevel side of the chisel facing the waste wood, or the side you are removing.
- **Shaving:** For fine work, push the chisel with hand pressure, taking thin shavings.
- **Paring:** For deeper cuts or removing larger amounts of material, use a mallet to gently tap the end of the chisel handle. Ensure the mallet is made of wood or a soft material to avoid damaging the handle.
- **Controlling Depth:** Make multiple shallow passes rather than one deep cut to maintain control and prevent splitting the wood.
- **Cleaning Cuts:** Use the chisel to clean out mortises, dovetails, and other joints for a precise fit.

Specific Applications

- **Mortising:** Use a wider chisel to define the edges of a mortise, then remove waste material by chopping or paring.
- **Dovetails:** Precisely cut the pins and tails of dovetail joints, cleaning up the shoulders with the chisel.
- **Chamfering and Beveling:** Create decorative or functional chamfers and bevels on wood edges.
- **Trimming:** Trim excess wood from joints or surfaces for a flush finish.

MAINTENANCE

Proper maintenance extends the life of your chisels and ensures optimal performance.

Sharpening

A sharp chisel is safer and more effective. Sharpen your chisels regularly.

1. **Materials:** You will need sharpening stones (coarse, medium, fine grits), honing guide (optional, but recommended for consistency), and honing oil or water (depending on stone type).
2. **Grinding the Bevel:** Use a coarse stone to establish the primary bevel angle (typically 25-30 degrees for wood chisels). Maintain a consistent angle.
3. **Honing the Edge:** Progress through medium and fine grit stones to refine the edge. Use a honing guide to ensure a consistent micro-bevel (typically 1-2 degrees steeper than the primary bevel) for a razor-sharp edge.
4. **Flattening the Back:** The back of the chisel should be perfectly flat. Use the fine grit stone to flatten the first inch or so of the back near the cutting edge.
5. **Removing the Burr:** After sharpening, a burr (wire edge) will form on the back of the blade. Remove it by lightly stroking the back of the chisel on the fine stone or a leather strop.

Cleaning and Storage

- After each use, wipe down the blades to remove any wood dust or residue.
- Apply a thin coat of light machine oil to the metal parts of the chisels to prevent rust, especially if storing for extended periods.
- Always place the plastic protective caps back on the blades before storing.
- Store the chisels in their transparent case in a dry environment to protect them from moisture and damage.



Figure 2: Stanley Bailey Wood Chisel Set (Model 1-16-416) in its closed transparent storage case, ready for transport or storage.

TROUBLESHOOTING

Common issues and their solutions when using wood chisels.

Problem	Possible Cause	Solution
Chisel not cutting cleanly / tearing wood fibers	Dull blade; incorrect cutting angle; wood grain direction.	Sharpen the chisel (see Maintenance section). Adjust cutting angle. Always cut with the grain or at a slight angle to avoid tear-out.
Chisel slipping during use	Dull blade; insufficient grip on workpiece; improper technique.	Sharpen the blade. Ensure workpiece is securely clamped. Improve grip and control, always cutting away from yourself.

Problem	Possible Cause	Solution
Blade rusting	Exposure to moisture; improper storage.	Clean and dry chisels after each use. Apply a thin coat of oil. Store in the protective case in a dry environment.
Handle loosening or cracking	Excessive force; using a metal hammer instead of a mallet; exposure to extreme temperature/humidity changes.	Always use a wooden or soft-faced mallet for striking. Avoid dropping chisels. Store in a stable environment. If severe, handle replacement may be necessary (contact Stanley support).

SPECIFICATIONS

Attribute	Detail
Model Number	1-16-416
Brand	Stanley
Set Contents	6 Wood Chisels
Chisel Sizes	6 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm
Blade Material	Hardened Alloy Steel
Blade Type	Flat with Beveled Edges
Handle Material	Lacquered Ash Wood with American-style Ferrule
Protective Feature	Plastic Blade Caps
Compliance	DIN 5139
Product Dimensions (L x W x H)	27.99 x 32.11 x 5.51 cm (approx. 11 x 12.6 x 2.2 inches)
Weight	1.36 kg (approx. 3 lbs)
Power Source	Manual Operation

WARRANTY AND SUPPORT

Stanley products are manufactured to high quality standards and are rigorously tested. For information regarding warranty coverage, product support, or spare parts, please refer to the official Stanley website or contact their customer service department.

- **Official Website:** www.stanleytools.com (Please note: specific regional websites may apply)
- **Customer Service:** Refer to the contact information provided on the product packaging or the official website for your region.
- **Spare Parts:** Information regarding spare parts availability for this specific model is currently unavailable.

When contacting support, please have your product model number (1-16-416) and purchase details ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

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

Submit question