Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Stanley 1-12-102

Stanley No. 102 Hand Carpenter's Plane Instruction Manual

Model: 1-12-102

1. Introduction

This manual provides essential instructions for the safe and effective use, setup, maintenance, and troubleshooting of your Stanley No. 102 Hand Carpenter's Plane. Please read this manual thoroughly before operating the tool to ensure proper handling and to maximize its performance and longevity.
The Stanley No. 102 Hand Carpenter's Plane is a compact and versatile tool designed for fine woodworking tasks, including chamfering, trimming, and fitting small components. Its lightweight design and adjustable blade make it suitable for detailed work.

2. Safety Information

Always observe the following safety precautions when using any hand tool:

- **Wear appropriate personal protective equipment (PPE):** This includes safety glasses to protect against flying debris and gloves to prevent cuts.
- **Keep blades sharp:** A sharp blade is safer and more efficient than a dull one, as it requires less force and reduces the risk of slipping.
- **Secure your workpiece:** Always clamp or otherwise secure the material you are working on to prevent it from moving during planing.
- **Maintain a firm grip:** Hold the plane firmly with both hands, if possible, to maintain control.
- **Plane away from your body:** Always direct the cutting action away from yourself and others.
- **Store safely:** When not in use, store the plane with the blade retracted or protected to prevent accidental cuts. Keep out of reach of children.
- **Inspect before use:** Before each use, check the plane for any damage or loose parts. Do not use if damaged.

3. Product Overview

3.1 Components

The Stanley No. 102 Hand Carpenter's Plane consists of several key parts:

- **Body:** The main cast iron frame of the plane, providing stability and housing the other components.
- **Blade (Plane Iron):** The cutting edge of the tool, responsible for shaving wood.
- **Cap Iron:** Sits on top of the blade, helping to curl and break the shavings.
- **Knurled Adjustment Screw:** Used for fine-tuning the depth of cut of the blade.
- **Wedge/Lever Cap:** Secures the blade and cap iron assembly firmly in place.
- **Sole:** The flat bottom surface of the plane that glides over the workpiece.



Figure 1: The Stanley No. 102 Hand Carpenter's Plane. This image shows the compact design of the plane, featuring its black body and red handle/lever cap, with the blade visible.

3.2 Specifications

Feature	Specification
Brand	Stanley
Model Number	1-12-102
Color	Black/Red
Product Dimensions	20 cm (Length) x 10.6 cm (Width) x 5.3 cm (Height)
Product Weight	150 Grams
Cutting Angle	20°
Blade Adjustment	Manual, via knurled screw

4. Setup

1. **Unpacking:** Carefully remove the plane from its packaging. Inspect for any signs of damage during transit. Retain packaging for future storage or transport if desired.
2. **Initial Inspection:** Check that all components are present and securely fastened. Ensure the sole is clean and free of debris.
3. **Blade Installation/Adjustment:**
    - Loosen the lever cap to allow movement of the blade assembly.
    - Ensure the blade and cap iron are correctly assembled. The bevel of the blade should face downwards (towards the sole) when installed.
    - Insert the blade assembly into the plane body.
    - Tighten the lever cap to secure the blade. Do not overtighten.
    - Use the knurled adjustment screw to set the depth of cut. Turn clockwise to advance the blade for a deeper cut, and counter-clockwise to retract it for a shallower cut. A very fine shaving is usually desired for finishing work.



Figure 2: The Stanley No. 102 Hand Carpenter's Plane as packaged. This image shows the product in its clear blister packaging, indicating its model number 1-12-102 and brand.

5. Operating Instructions

1. **Prepare the Workpiece:** Ensure your wood is securely clamped or held. The surface to be planed should be clean and free of obstructions.
2. **Grip the Plane:** Hold the plane firmly. For the No. 102, typically one hand holds the main body, guiding it, while the other can apply pressure or assist in guiding.
3. **Start the Cut:** Place the front of the plane (toe) on the workpiece. Apply slight downward pressure on the front of the plane as you begin to push it forward.
4. **Maintain the Stroke:** As you push the plane forward, transfer pressure evenly across the sole. Maintain a consistent angle and pressure throughout the stroke.

5. **Finish the Cut:** As the plane exits the workpiece, apply slight downward pressure on the rear of the plane (heel) to ensure a consistent cut to the very end.
6. **Adjust Depth of Cut:** If the cut is too deep or too shallow, adjust the blade using the knurled screw (refer to Section 4.3). Make small adjustments and test on scrap wood if necessary.
7. **Grain Direction:** Always plane with the grain of the wood to achieve the smoothest finish and prevent tear-out. Planing against the grain can result in rough surfaces and splintering.

6. Maintenance

Regular maintenance will ensure your Stanley No. 102 Hand Carpenter's Plane remains in optimal working condition:

- **Cleaning:** After each use, brush off any wood shavings or dust from the plane body and blade. A soft cloth can be used to wipe down metal surfaces.
- **Blade Sharpening:** The blade will dull with use. Sharpening is crucial for effective and safe operation. This typically involves honing the bevel on sharpening stones or sandpaper of progressively finer grits. Maintain the original 20° cutting angle.
- **Rust Prevention:** Apply a thin coat of camellia oil or a rust-inhibiting wax to all exposed metal surfaces, especially the sole and blade, if the plane will be stored for an extended period or in a humid environment.
- **Storage:** Store the plane in a dry place. It is recommended to retract the blade slightly or use a blade guard to protect the cutting edge and prevent accidental injury.

7. Troubleshooting

Problem	Possible Cause	Solution
Rough or torn surface	Planing against the grain; dull blade; blade set too deep.	Plane with the grain; sharpen the blade; reduce depth of cut.
Plane chatters or vibrates	Blade not securely fastened; blade set too deep; cap iron not tight.	Ensure lever cap is tight; reduce depth of cut; check cap iron assembly.
No shavings produced	Blade retracted too far; blade dull.	Advance the blade using the adjustment screw; sharpen the blade.
Uneven cut	Blade not parallel to the sole; uneven pressure during planing.	Adjust blade laterally (if possible for this model, otherwise ensure even seating); maintain consistent pressure.

8. Warranty and Support

Stanley products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Stanley website. If you encounter any issues not covered in this manual or require further assistance, please contact Stanley customer support or your authorized retailer.
You can find more information and contact details on the official Stanley website: www.stanleytools.com

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

Anonymous

Email

you@example.com

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

Open the live page

https://manuals.plus/asin/B0001IW4ZA

More documents and user manuals: **https://manuals.plus/**