WORKPRO W052002

WORKPRO W052002 Block Plane User Manual

Model: W052002 | Brand: WORKPRO

1. Introduction and Overview

The WORKPRO W052002 Block Plane is a precision hand tool designed for woodworking tasks, specifically for cleaning up wood ends and edges. It excels at removing thin shavings of wood to achieve precise fits between components and to smooth rough areas of solid wood. Its low-angle blade is effective for slicing through end grain with efficiency.

This block plane is also suitable for chamfering, which involves creating safer, beveled edges on sharp wood corners, and for paring, butting end grains, touch-up work, and removing hardened wood glue.



Image: The WORKPRO W052002 Block Plane, featuring its cast iron body, black finish, and wooden front knob handle.

2. Product Features

- **Purpose:** Ideal for cleaning up wood ends and edges by removing thin shavings of wood.
- **Handle Design:** Features a front wooden handle for improved control and ease of use.

- **Blade Quality:** Equipped with a single hardened and tempered steel blade.
- **Blade Angle:** The blade is set at a shallow angle, optimizing its ability to slice through end grain.
- **Construction:** Durable cast iron body ensures stability and longevity.

3. Safety Information

Adhering to safety guidelines is crucial when operating the WORKPRO W052002 Block Plane to prevent injury and ensure optimal results. Always prioritize safety before, during, and after use.

- **Workpiece Inspection:** Always ensure the wood workpiece is free of nails, screws, or any other foreign objects that could damage the blade or cause kickback.
- **Grain Direction:** Always plane in the direction of the wood grain to minimize chipping and achieve a smoother finish.
- **Eye Protection:** Always wear safety goggles or glasses to protect your eyes from wood shavings and debris. Ensure bystanders also wear appropriate eye protection.
- **End Grain Cuts:** When working on end grain, plane from the end towards the center of the workpiece. This technique helps prevent splintering or breaking of the wood at the edges.

4. Setup and Adjustment

Proper setup and adjustment of your block plane are essential for achieving clean and accurate cuts. Refer to the diagram below for component identification.

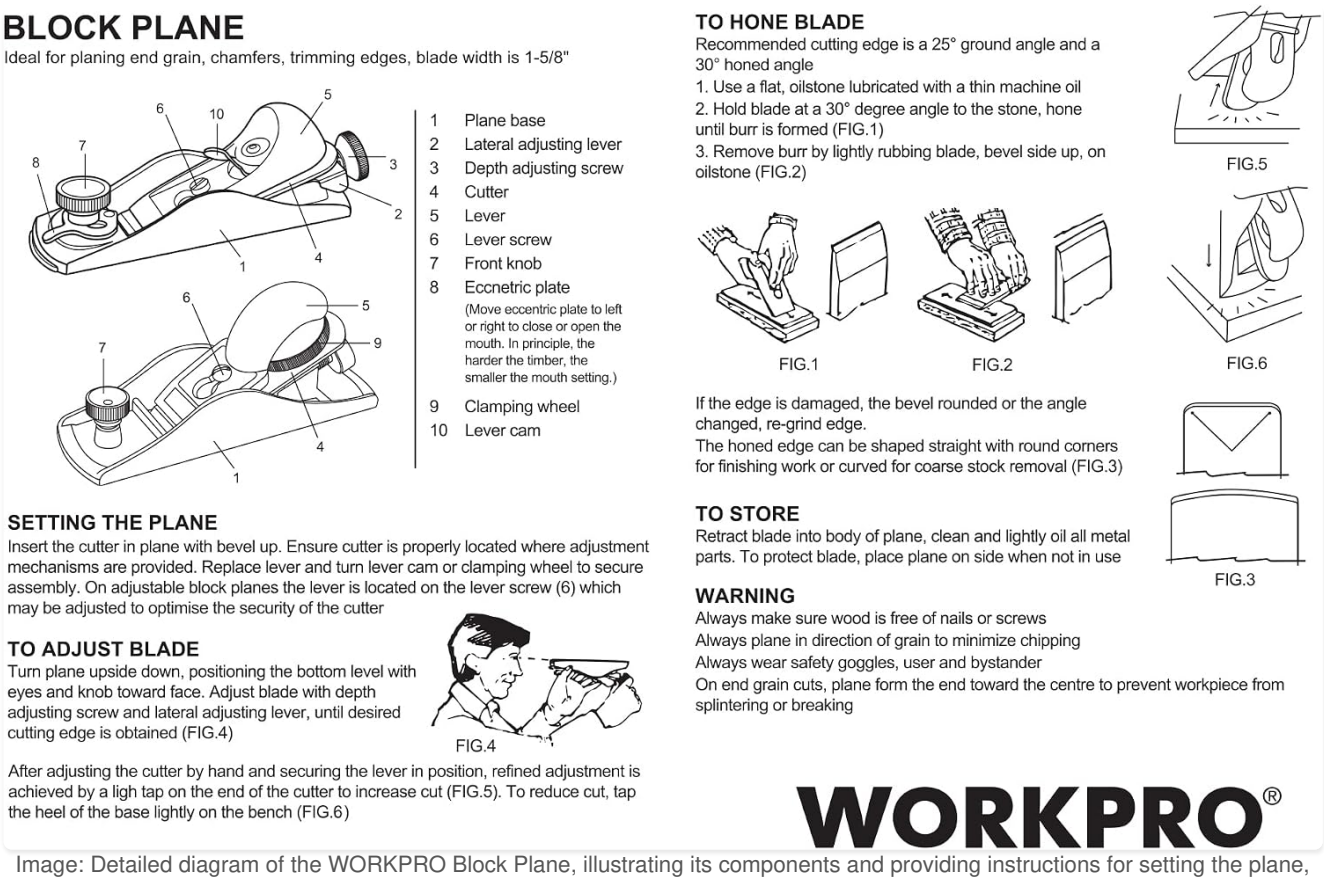


Image: Detailed diagram of the WORKPRO Block Plane, illustrating its components and providing instructions for setting the plane, adjusting the blade, and honing the blade.

4.1. Setting the Plane

Insert the cutter (blade) with the bevel facing upwards. Ensure the cutter is properly located where adjustment

mechanisms are provided. Replace the lever and turn the lever cam or clamping wheel to secure the assembly. On adjustable block planes, the lever is located on the lever screw (6) which may be adjusted to optimize the security of the cutter.

4.2. Adjusting the Blade Depth

To adjust the blade depth, turn the plane upside down, positioning the bottom level with your eyes and the knob towards your face. Adjust the blade with the depth adjusting screw and lateral adjusting lever until the desired cutting edge is obtained (Refer to FIG.4 in the diagram).
After adjusting the cutter by hand and securing the lever in position, fine adjustment is achieved by a light tap on the end of the cutter to increase cut (Refer to FIG.5 in the diagram). To reduce the cut, tap the heel of the base lightly on the bench (Refer to FIG.6 in the diagram).

5. Operating Instructions

Effective use of the block plane involves proper technique and blade maintenance.

5.1. General Operation

For best results, hold the plane at an angle of up to 45 degrees when pulling or pushing across the edge of the wood. This angle allows the blade to slice through the wood fibers more effectively, especially on end grain.



Image: A person demonstrating the use of the WORKPRO Block Plane to shave wood from a beam, with wood shavings visible on the workbench.

5.2. Honing the Blade

The recommended cutting edge has a 25° ground angle and a 30° honed angle.

1. Use a flat oilstone, lubricated with a thin machine oil.
2. Hold the blade at a 30° degree angle to the stone, hone until a burr is formed (Refer to FIG.1 in the diagram).
3. Remove the burr by lightly rubbing the blade, bevel side up, on the oilstone (Refer to FIG.2 in the diagram).

If the edge is damaged, the bevel rounded, or the angle changed, re-grind the edge. The honed edge can be shaped straight with round corners for finishing work or curved for coarse stock removal (Refer to FIG.3 in the diagram).

6. Maintenance

Proper maintenance ensures the longevity and performance of your WORKPRO Block Plane.

6.1. Storage

To store the plane, retract the blade into the body of the plane. Clean and lightly oil all metal parts to prevent rust. Place the plane on its side when not in use to protect the blade.

7. Troubleshooting

While the WORKPRO Block Plane is designed for reliable performance, minor issues can sometimes arise. Here are some common scenarios and their solutions:

- **Difficulty Adjusting Blade:** If the blade adjustment feels stiff or sloppy, ensure all clamping mechanisms are clean and free of debris. A light application of machine oil to the adjustment threads can improve smoothness.
- **Poor Cut Quality (Tearing/Rough Surface):**
  - **Dull Blade:** The most common cause. Refer to Section 5.2 "Honing the Blade" to sharpen the blade.
  - **Incorrect Blade Depth:** Adjust the blade depth (Section 4.2) to take a finer or coarser shaving as needed.
  - **Planing Against Grain:** Ensure you are planing in the direction of the wood grain (refer to Section 3, Safety Information).
  - **Blade Chatter:** Ensure the blade is securely clamped and there is no play. Check that the lever cam or clamping wheel is tightened properly.
- **Blade Not Cutting:**
  - **Blade Retracted Too Far:** Adjust the blade depth (Section 4.2) to extend the cutting edge slightly.
  - **Blade Dull:** Sharpen the blade as per Section 5.2.

8. Specifications

Attribute	Detail
Brand	WORKPRO
Model Number	W052002
Blade Width	1-5/8 inches
Body Material	Cast Iron
Handle Material	Wood
Color	Black
Item Weight	1.54 pounds (0.7 Kilograms)
Power Source	Hand powered
UPC	820909715627
Manufacturer	Prime-Line Products
First Available	July 14, 2020

9. Warranty and Support

For information regarding warranty, replacement parts, or additional support for your WORKPRO W052002 Block Plane, please visit the official WORKPRO store or contact Prime-Line Products, the manufacturer.

Official WORKPRO Store: Visit Store

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