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STANLEY 1-12-078

STANLEY Duplex Rebate Plane 1-12-078 User Manual

1. Introduction

This manual provides detailed instructions for the safe and effective use, setup, and maintenance of your STANLEY Duplex Rebate Plane, model 1-12-078. This precision hand tool is designed for creating rebates (or rabbets) along the edge of a workpiece, as well as for widening or deepening existing rebates. Its robust construction from fine grey iron and accurately machined surfaces ensure precise results for various woodworking tasks.

2. Product Components

The STANLEY Duplex Rebate Plane 1-12-078 consists of several key components that work together to achieve accurate cuts:

- **Plane Body:** The main casting, made from fine grey iron, providing stability and a flat reference surface.
- **Cutter (Blade):** The sharpened iron responsible for removing wood material. It can be positioned in two locations.
- **Cutter Adjustment Mechanism:** Allows for precise control over the depth of cut.
- **Adjustable Fence:** Guides the plane parallel to the edge of the workpiece, ensuring consistent rebate width.
- **Depth Gauge:** Limits the depth of the cut, preventing over-planing.
- **Cutting Spur:** Used for scoring the wood ahead of the cutter when working across the grain, reducing tear-out.



Figure 1: Overview of the STANLEY Duplex Rebate Plane 1-12-078.

3. Setup

3.1 Unpacking and Initial Inspection

Upon receiving your plane, carefully unpack all components. Inspect the plane body, cutter, fence, depth gauge, and cutting spur for any signs of damage. Ensure all parts are present as listed in the product documentation.

3.2 Cutter Installation and Position

The plane features two cutter positions: front and rear. The rear position is typically used for general rebating, while the front position allows the plane to work into corners or for fine trimming. To install or adjust the cutter:

1. Loosen the cap iron screw and remove the cap iron.
2. Insert the cutter into the desired position (front or rear).
3. Re-attach the cap iron, ensuring it securely holds the cutter.
4. Adjust the cutter depth using the lever mechanism until a fine shaving is produced. The cutter should protrude only slightly from the sole of the plane.

3.3 Adjusting the Fence and Depth Gauge

These components are crucial for controlling the dimensions of your rebate:

- **Fence:** Loosen the fence locking screw. Slide the fence along the rods to set the desired width of the rebate. Tighten the screw to secure the fence.
- **Depth Gauge:** Loosen the depth gauge locking screw. Adjust the gauge to the desired depth of the rebate. Tighten the screw to secure the gauge.

3.4 Setting the Cutting Spur

When planing across the grain, the cutting spur helps to sever the wood fibers cleanly, preventing tear-out. Adjust the spur so its point is slightly ahead of the cutter and scores the wood at the desired rebate line.



Figure 2: Detail of the adjustable fence and depth gauge.

4. Operating Instructions

4.1 Preparing the Workpiece

Secure your workpiece firmly to a workbench using clamps or a vise. Ensure the edge to be planed is stable and accessible.

4.2 Planing Technique

With the cutter, fence, and depth gauge set as described in the Setup section:

1. Place the plane on the workpiece, ensuring the fence is flush against the edge and the sole is flat on the surface.
2. Apply even downward pressure and push the plane forward in a smooth, consistent stroke.
3. Maintain consistent pressure throughout the stroke.
4. Lift the plane on the return stroke to avoid dulling the blade.
5. Repeat strokes until the depth gauge prevents further cutting, indicating the desired depth has been reached.

4.3 Working with Cross Grain

When planing across the grain, ensure the cutting spur is properly set. The spur will score the wood fibers, allowing the main cutter to remove material cleanly without tearing out the grain.

5. Maintenance

Proper maintenance ensures the longevity and performance of your STANLEY Duplex Rebate Plane.

- **Cleaning:** After each use, remove all wood shavings and dust from the plane body and cutter. A brush or compressed air can be used.
- **Blade Sharpening:** A sharp blade is essential for clean cuts. Sharpen the cutter regularly using appropriate sharpening stones or jigs. A dull blade will result in poor cuts and require more effort.
- **Rust Prevention:** The plane's iron components are susceptible to rust. Apply a thin coat of rust-preventative oil to all exposed metal surfaces after cleaning, especially if storing for extended periods.
- **Storage:** Store the plane in a dry environment, preferably in a protective box or tool cabinet, to prevent damage and corrosion.

6. Troubleshooting

If you encounter issues with your plane, consider the following common problems and solutions:

- **Uneven Cut or Chatter:**
  - Check if the cutter is sharp and properly seated.
  - Ensure the cap iron is tightened securely.
  - Verify the fence is set correctly and tightened.
  - Confirm the workpiece is securely clamped.
- **Plane Jams or Stops Cutting:**
  - The depth of cut may be too aggressive. Reduce the cutter projection.
  - The blade may be dull and require sharpening.
  - Wood shavings may be clogging the mouth. Clear any obstructions.
- **Tear-out (Rough Surface):**
  - Ensure the cutting spur is engaged and sharp when working across the grain.
  - Plane with the grain whenever possible.
  - Reduce the depth of cut for finer shavings.

7. Specifications

Feature	Specification
Brand	STANLEY
Model Number	1-12-078
Material	Fine Grey Iron
Color	Black
Product Dimensions	10.83"L x 5.04"W x 1.73"H
Item Weight	3.41 pounds (1.55 Kilograms)

Feature	Specification
Style	Duplex Rebate Plane
Included Components	1 x No.78 Duplex Rebate Plane
UPC	076174120783, 604310237745

8. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official STANLEY website. Keep your proof of purchase for any warranty claims.
For further assistance, you may contact STANLEY customer service directly through their official channels.

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