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MODEL T34066 NO. 4 10" LEGACY SMOOTHING PLANE INSTRUCTIONS

Introduction

The Model T34066 No. 4 10" Legacy Smoothing Plane is designed for smoothing flattened wood surfaces and trimming end grain. The included steel blade has a 2" cutting width sharpened to a 45° bevel, which can achieve a smooth finish without the need for sandpaper. This plane has a 9½" cast iron sole, stainless steel fixtures, anodized aluminum cheeks and knob, and a solid wood tote that can be adjusted to accommodate a variety of hand sizes. This smoothing plane also features an adjustable frog, depth adjustment knob, and lateral adjustment screws for fine-tuning hard and soft wood finishes.

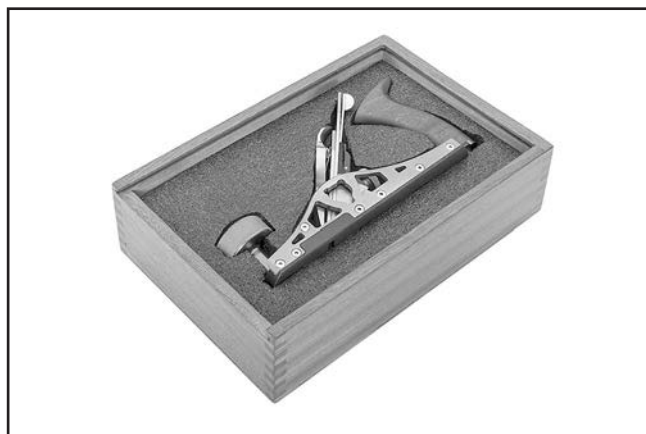


Figure 1. Model T34066.

Specifications

Bedding Angle 45 deg.
Blade Bevel Angle 45 deg.
Blade Width 2 in.
Blade Construction Steel
Sole Length 9-1/2 in.
Sole Construction Cast Iron



! WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using tool.

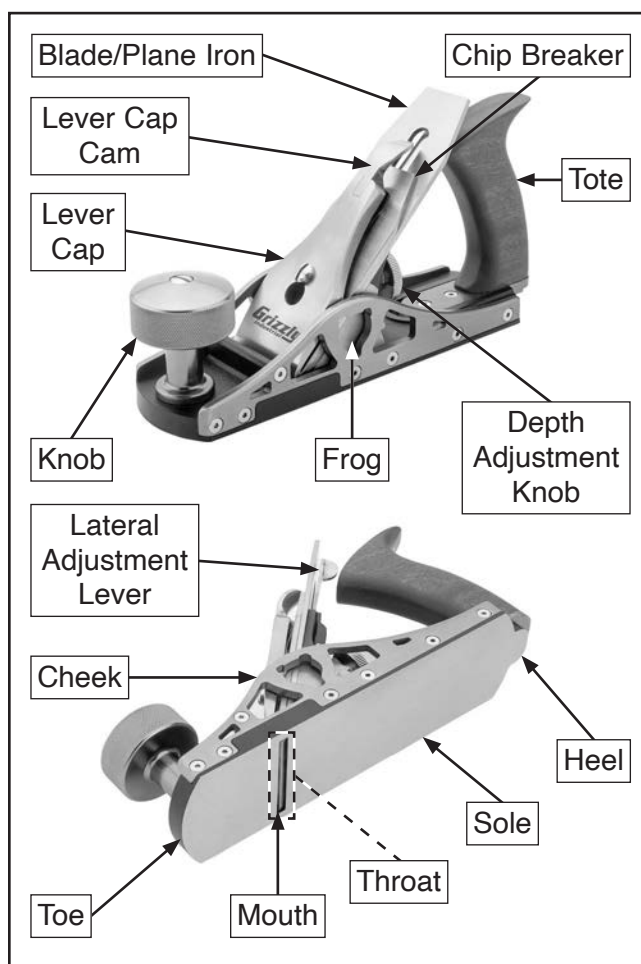


Figure 2. Identification.

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Keep for Future Reference

WARNING

- Always push plane away from you, never pull plane towards you.
- Use care when handling blade. It has a sharp edge and can cause lacerations.
- Protect eyes from debris by wearing ANSI-approved safety glasses.
- Verify workpiece is properly secured.
- Prevent unauthorized use by children or untrained users.

Securing Workpiece

The Model T34066 requires two hands to properly control, so it is highly recommended to use a solid workbench for securing planing projects. Workbenches with configurable vises, wedge stops, bench dogs, and hold-downs will provide critical support for many different workpieces. See **Figure 3** for an example of a solid workbench securing a wood project.



Figure 3. Workbench securing wood project with bench stop, front vise, and bench dogs.

Adjusting Blade Position

Blade depth controls the amount of material removed during planing. Frog position controls the size of the mouth opening, allowing for fine or rough cuts. Lateral adjustment controls the tilt of the blade, aligning the cutting edge parallel with the mouth.

Adjusting Blade Depth

1. Rotate depth adjustment knob clockwise to lower blade, or counterclockwise to raise blade (see **Figure 4**).

Note: Length of blade protruding from sole determines depth of cut.

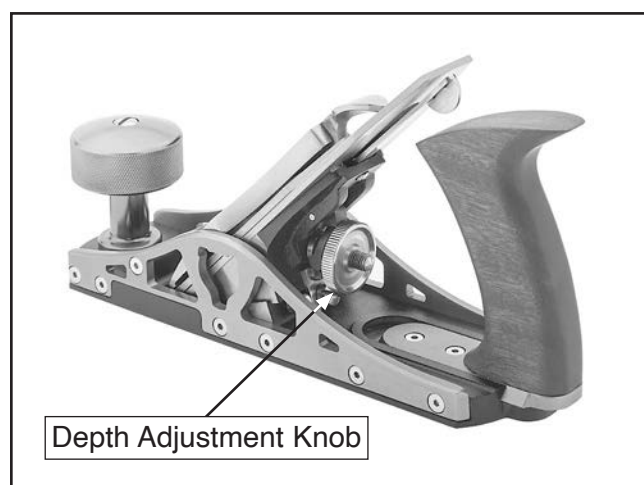


Figure 4. Depth adjustment knob location.

Adjusting Frog Position

1. Loosen (2) locking screws located on rear of frog (see **Figure 5**).
2. Rotate adjustment screw clockwise to close mouth, or counterclockwise to open mouth, then tighten (2) locking screws loosened in **Step 1** (see **Figure 5**).

Note: Use a narrow mouth for fine cuts, and a wide mouth for deep cuts.



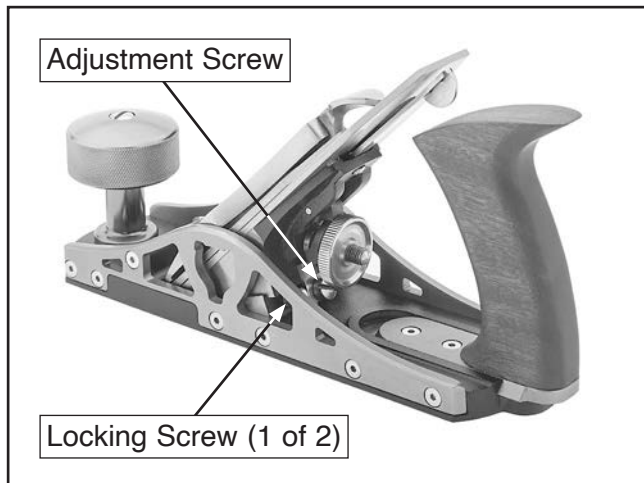


Figure 5. Frog position components.

Adjusting Lateral Blade Position

1. Tilt lateral adjustment lever left or right to adjust blade side-to-side (see **Figure 6**).
 - Tilt lateral adjustment lever *left* to lower *right* corner of blade, or tilt lever *right* to lower *left* corner of blade.
2. Verify blade is parallel with mouth and there is an even amount of space on each side of blade (see **Figure 6**).

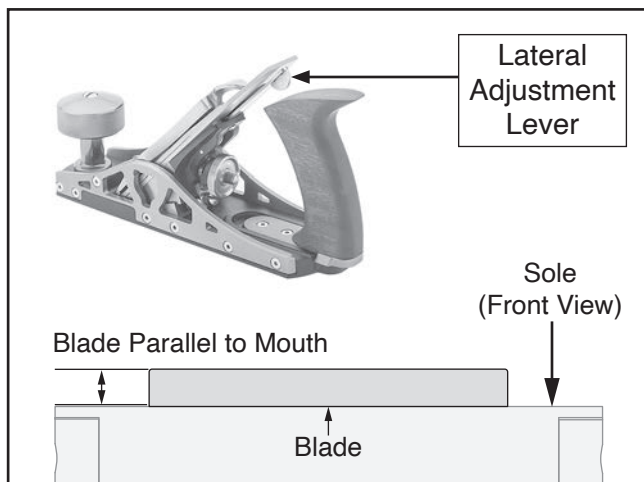


Figure 6. Lateral blade adjustment controls.

Replacing Blade

1. Pull up on lever cap cam and slide lever cap up through keyhole to remove, then remove blade and chip breaker (see **Figure 7**).

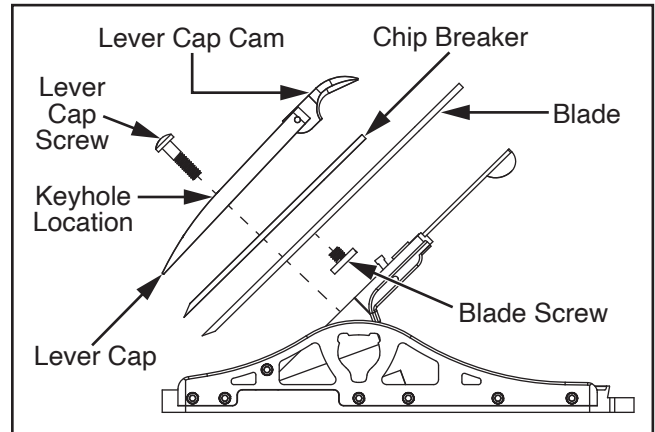


Figure 7. Blade replacement components.

2. Loosen blade screw securing blade to chip breaker and slide blade up until screw head clears blade keyhole, then remove blade (see **Figure 8**).

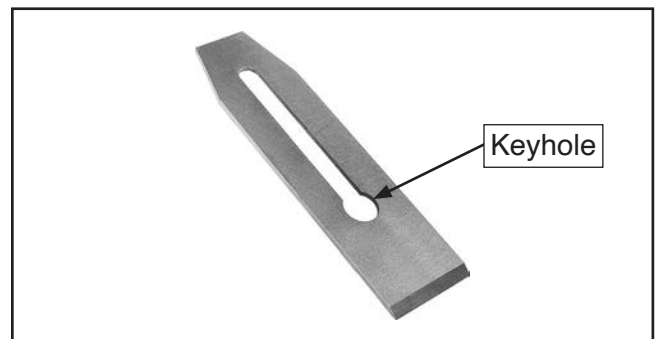


Figure 8. Blade keyhole.

3. Place replacement blade against chip breaker with bevel facing down, then position chip breaker $\frac{1}{16}$ " from blade edge and secure with blade screw loosened in **Step 2**.
4. Install blade and chip breaker over lever cap screw on frog, ensuring blade screw settles into recess in frog.
5. Install lever cap over lever cap screw and slide down to fully seat lever cap in keyhole, then push lever cap cam down to secure.

Note: If lever cap cam is too loose to secure blade, tighten lever cap screw until lever cap cam is firmly secured.



Adjusting Hand Placement

The Model T34066 features an adjustable knob and tote to accommodate a variety of hand sizes and positions.

To adjust hand placement:

1. Loosen and remove (2) flat head cap screws on base of tote (see **Figure 9**).
2. Slide tote in or out depending on desired positioning, then install and secure (2) flat head cap screws removed in **Step 1** (see **Figure 9**).

Note: Tote adjustment has four positions that are spaced $\frac{1}{4}$ " apart.

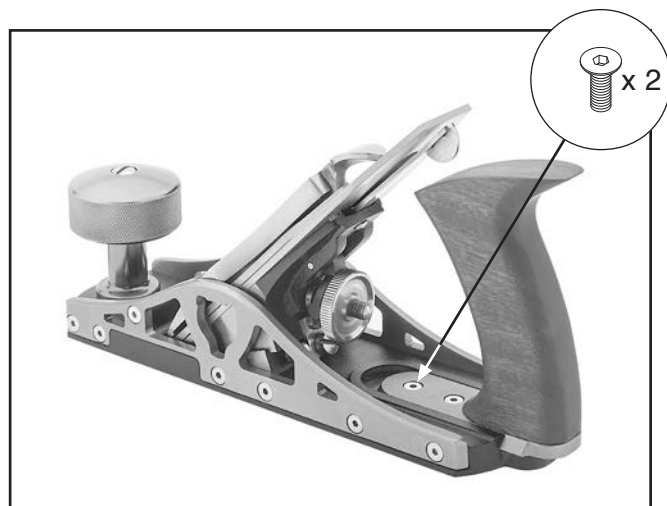


Figure 9. Tote adjustment components.

3. Loosen and remove (1) lock shaft on top of knob (see **Figure 10**).
4. Position knob as desired, then install and secure lock shaft removed in **Step 3** (see **Figure 10**).

Note: Knob adjustment has two positions that are spaced a $\frac{1}{4}$ " apart.

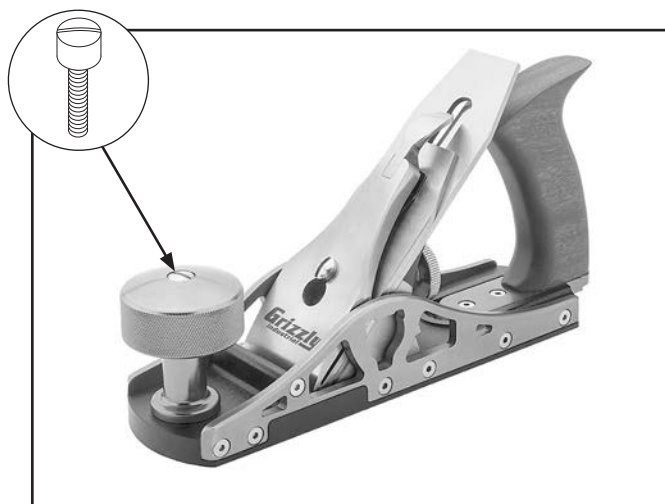


Figure 10. Knob adjustment components.

Operating Smoothing Plane

Workpiece security, tool handling, operator stance, and proper tool setup all contribute to the final finish quality of the workpiece surface.

To operate smoothing plane:

1. Place one hand on knob and use opposite hand to firmly grasp tote.
- Note:** See **Adjusting Hand Placement** for adjusting knob and tote positions.
2. Stand close to workpiece with feet shoulder width apart, and ensure there is enough room to move through entire length of stroke.
 3. Place toe end of smoothing plane on starting edge of workpiece, following same direction as wood grain (see **Figure 11**).

Note: Difficult wood grains may require skewing heel end of plane approximately 10° – 30° to reduce tear-out (see **Figure 11**).



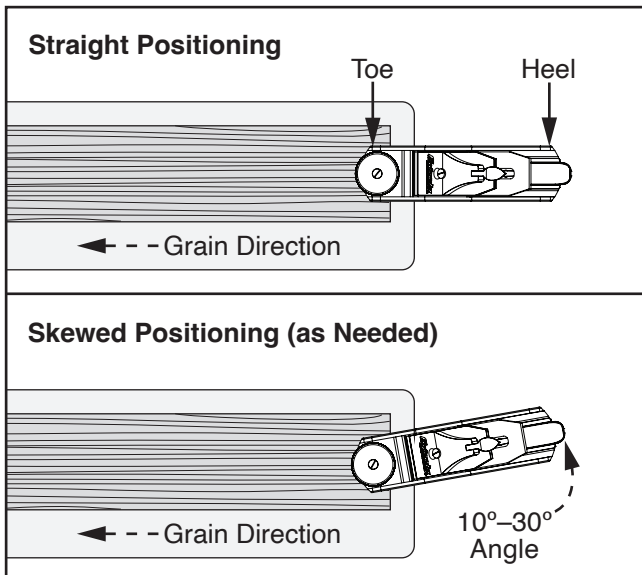


Figure 11. Smoothing plane positioned on workpiece.

4. Begin stroke with majority of hand pressure on toe end of smoothing plane, as shown in **Figure 12**.
5. When entire sole rests on workpiece, balance hand pressure on both toe end and heel end of plane, then increase pressure on heel end during end of stroke (see **Figure 12**).

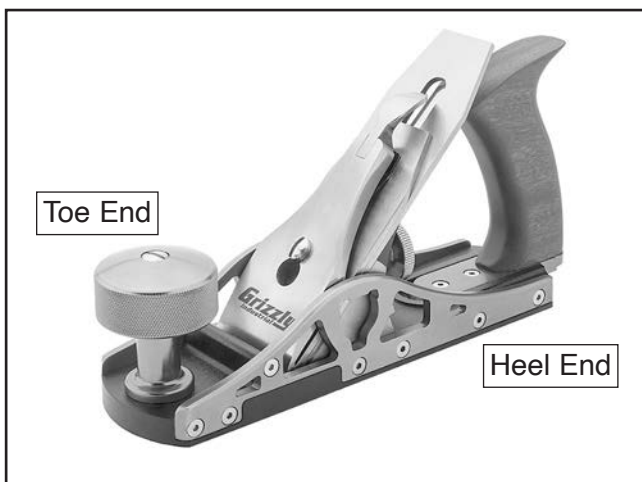


Figure 12. Toe and heel ends of smoothing plane.

Troubleshooting

- If the smoothing plane chatters during planing, reduce the depth of cut, or try skewing the heel end angle during the stroke.
- If the mouth or chip breaker clogs with shavings, reduce the depth of cut, or adjust the mouth opening wider. Always clear larger shavings after each stroke is complete.
- If one side of the blade digs into the workpiece more than the other, adjust the blade so it is parallel to the mouth.
- If tear-out occurs, plane in the direction of the grain, sharpen or replace blade, reduce mouth opening, or try skewing the heel end angle during the stroke.
- If planing pressure alters blade depth during cuts, tighten adjustment screw after setting blade depth to remove backlash.

Maintenance

- Sharpen the blade bevel or add a secondary bevel on blade edge when it becomes noticeably difficult to push the smoothing plane, or when it produces excessive chatter.
- Before storing the smoothing plane, remove the blade, wipe the blade down with an oily cloth, then store the blade in a dry place to prevent rusting.
- Lightly oil the plane and store in a sealed bag or included display case away from direct sunlight and humidity.



Accessories

T33827—Replacement Blade for No. 4 Plane

Replacement blades help restore your smoothing plane's performance. This replacement blade has a 45° bevel and comes ready to use.



Figure 13. T33827 No. 4 Plane Blade.

Japanese Water Stones

D1067—8 $\frac{1}{8}$ " L x 2 $\frac{9}{16}$ " W x $\frac{7}{8}$ " T, 800 Gr.

D1068—8 $\frac{1}{2}$ " L x 2 $\frac{1}{2}$ " W x 1 $\frac{3}{8}$ " T, 1000 Gr.

D1069—8 $\frac{1}{8}$ " L x 2 $\frac{9}{16}$ " W x $\frac{7}{8}$ " T, 1200 Gr.

D1070—8 $\frac{1}{8}$ " L x 2 $\frac{1}{2}$ " W x 1 $\frac{3}{8}$ " T, 6000 Gr.

D1071—8 $\frac{1}{8}$ " L x 2 $\frac{1}{2}$ " W x 1 $\frac{3}{8}$ " T, 8000 Gr.

Woodworkers of all skill levels are turning to Japanese water stones to keep their tool edges sharp. This is because water stones cut more aggressively and a sharp edge can be achieved much faster. Water stones also polish as they hone, allowing a mirror finish without the need for stropping or polishing compounds. Only water is needed to lubricate the cutting edge.



Figure 14. D1067 Japanese Water Stone.

T10157—Heavy-Duty Oak Workbench

We've combined the beauty, work, and tool friendly attributes of a solid oak work surface with the strength and durability of square steel legs and cross bracing to make the best workbench money can buy. To top it off, we've also included oak front and side vises with removable wooden bench dogs and two storage drawers with ball bearing slides. The table top measures 60" long by 30" wide, and the adjustable legs can be set so the height of the Workbench is 32" to 39" above the floor. The legs adjust in 1" increments.



Figure 15. T10157 Oak Workbench.

T23877 - Bench Planes DVD and Book

The Missing Shop Manual: Bench Planes delivers all the information you need—and brings Ernie Conover right into your shop to explain it. In addition to detailing the basics of safety and setup, this handy reference and 55-minute DVD will guide you through all the tips and techniques needed to get the most out of your plane.

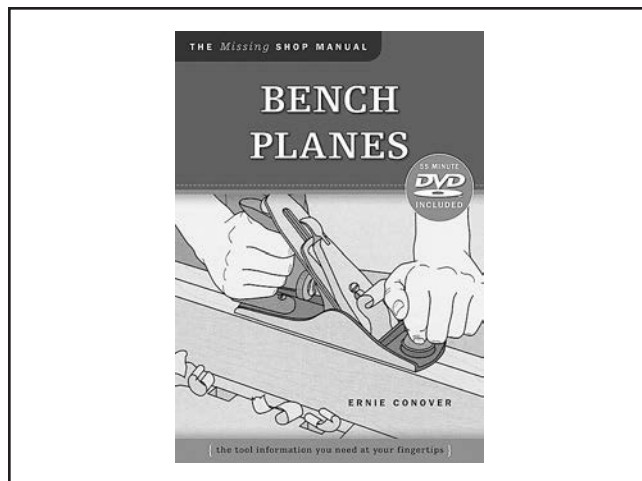


Figure 16. T23877 Bench Planes DVD & Book.



WARRANTY & RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

In the event you need to use this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

For further information about the warranty, visit <https://www.grizzly.com/forms/warranty> or scan the QR code below to be automatically directed to our warranty page.





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