MODEL T34067
NO. 5 14" LEGACY JACK PLANE
INSTRUCTIONS

For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

Introduction

The Model T34067 No. 5 14" Legacy Jack Plane is designed for smoothing and flattening wood in preparation for truing and edge jointing. The included steel blade has a 2" cutting width sharpened to a 45° bevel. This plane has a 14" 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 jack plane also features an adjustable frog, depth adjustment knob, and lateral adjustment screws for fine-tuning hard and soft wood finishes.

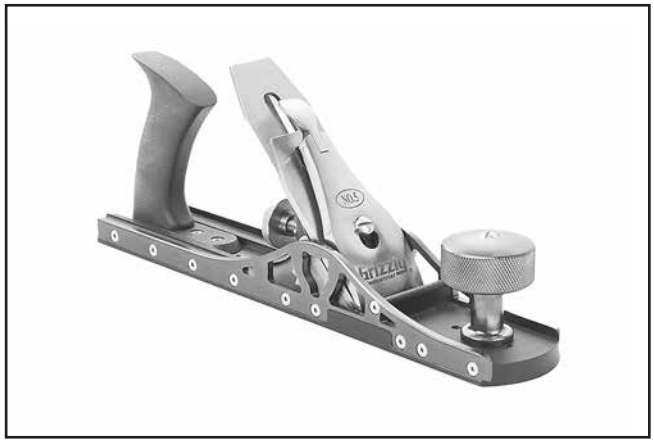
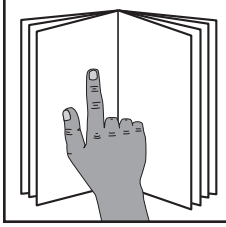


Figure 1. Model T34067.

Specifications

Bedding Angle	45 deg.
Blade Bevel Angle	45 deg.
Blade Width	2 in.
Blade Construction	Steel
Sole Length	14 in.
Sole Construction	Cast Iron



⚠WARNING

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

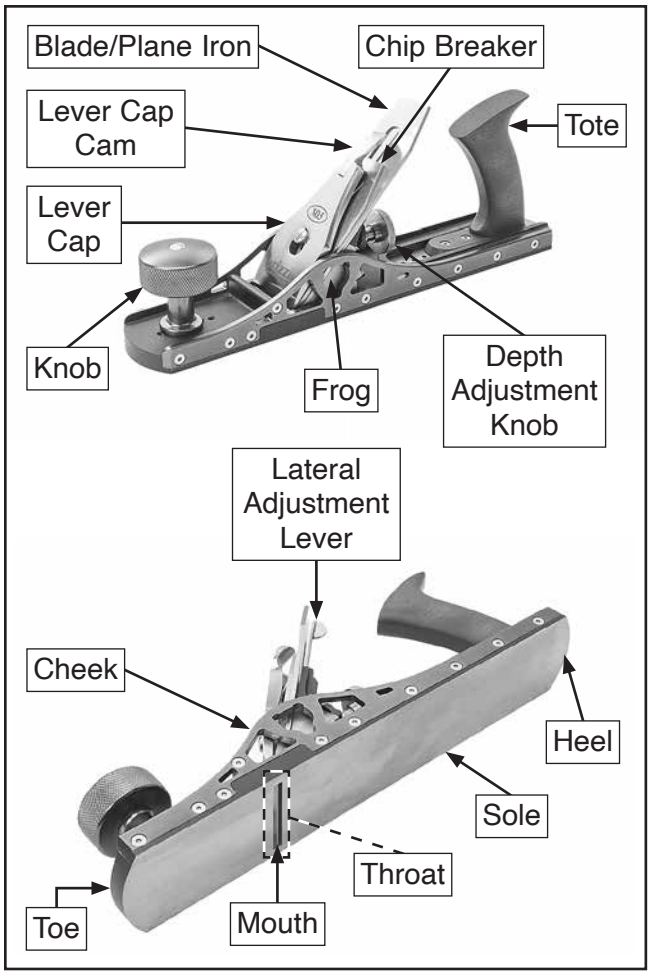


Figure 2. Identification.

(FOR MODELS MFD. SINCE 10/24) SG23365 PRINTED IN INDIA V1.10.24

******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 T34067 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 work bench securing a wood project.

Figure 3. T10157 Heavy-Duty Oak Workbench securing wood project with bench stop, front vise, and 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. Open lever cap cam (see **Figure 4**).

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

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

3. Close lever cap cam (see **Figure 4**).

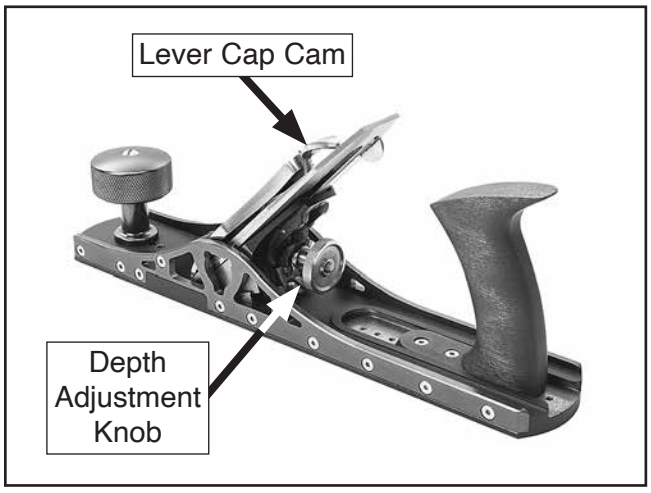


Figure 4. Blade depth components.

Adjusting Frog Position

1. Open lever cap cam, then remove lever cap, blade, and chip breaker (see **Figure 2** on **Page 1**). Note which side faces up.

2. Remove depth adjustment knob by turning clockwise.

3. Loosen (2) locking screws about ½ turn (see **Figure 5**).

Note: *Turning locking screws more than ½ turn will disengage them from frog hold-down pins (see **Figure 6**), possibly allowing hold-down pins to move out of alignment. If this happens, locking screws will not properly secure frog. To remedy, remove hold-down pins, then reinsert to full depth. Make sure conical indentation on each hold-down pin aligns with point on each locking screw.*

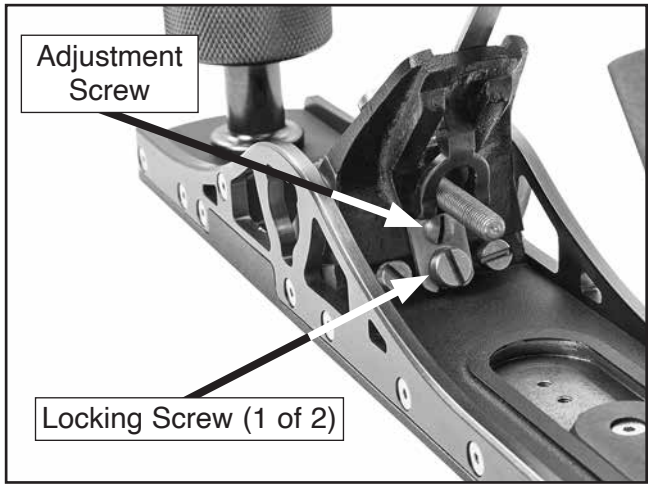


Figure 5. Frog position components.

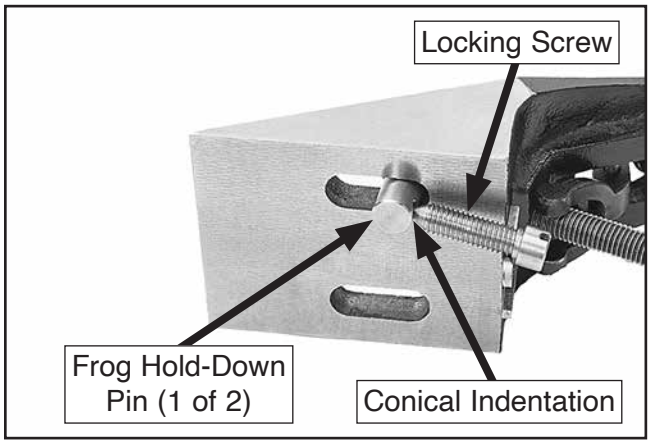


Figure 6. Frog hold-down components.

4. Turn adjustment screw (see **Figure 5**) clockwise to close mouth, or counterclockwise to open mouth.

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

5. Tighten (2) locking screws to secure frog, then assemble blade components (see **Steps 4–5** of **Replacing Blade** on **Page 4**).

Adjusting Lateral Blade Position

1. Open lever cap cam (see **Figure 7**).

2. Tilt lateral adjustment lever (see **Figure 7**) left or right to adjust blade side-to-side.

   — Tilt lateral adjustment lever *left* to lower *right* corner of blade, or tilt lever *right* to lower *left* corner of blade.

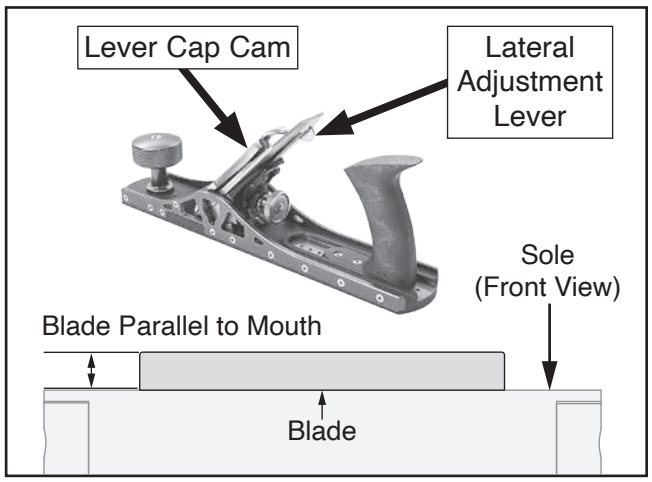


Figure 7. Lateral blade adjustment controls.

3. Verify blade is parallel with mouth and there is an even amount of space on each side of blade.

4. Close lever cap cam.

Replacing Blade

1. Open lever cap cam and slide lever cap up through keyhole to remove, then remove lever cap, chip breaker, and blade (see **Figure 8**). Note which sides face up.

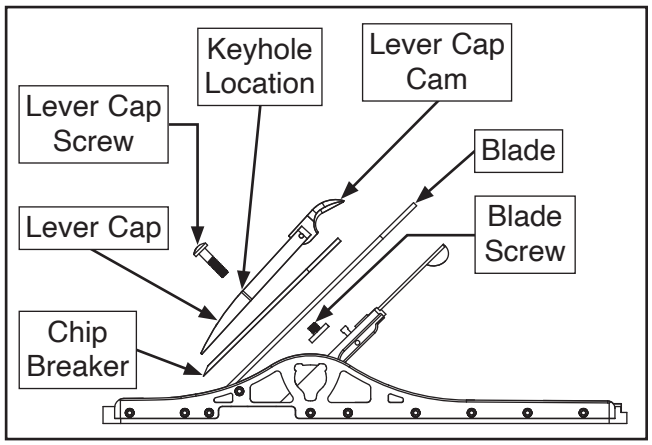


Figure 8. Blade replacement components.

2. Loosen blade screw securing blade to chip breaker, slide blade up until screw head clears blade keyhole (see **Figure 9**), then remove blade.

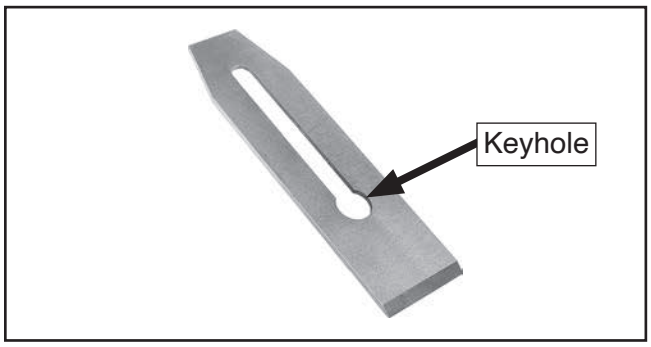


Figure 9. Location of blade keyhole.

3. Place replacement blade against chip breaker so the two bevels face away from each other, with chip breaker offset 1/16" from blade edge, then 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. Verify that blade is square to mouth of plane, making lateral adjustments as needed.

6. 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 T34067 features an adjustable knob and tote to accommodate a variety of hand sizes and positions.

To adjust hand placement:

1. Remove (2) flat head cap screws on base of tote (see **Figure 10**).

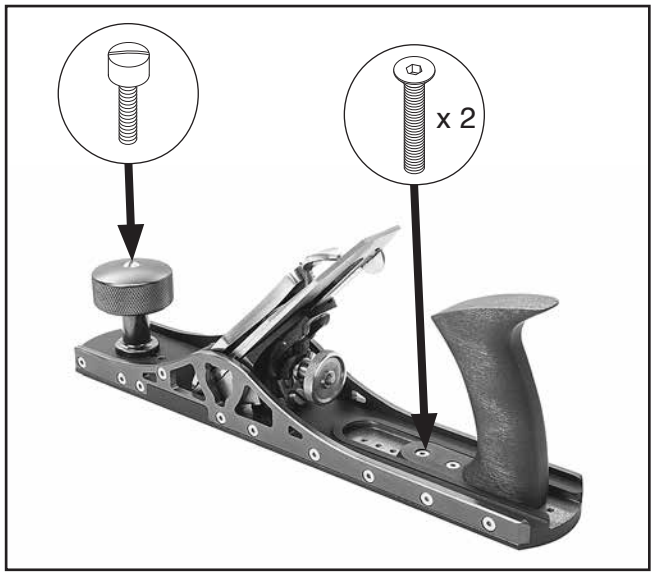


Figure 10. Hand placement components.

2. Slide tote in or out depending on desired positioning, then re-install (2) flat head cap screws.

   Note: *Tote adjustment has six usable positions.*

3. Remove screw securing knob (see **Figure 10**), and apply thread locking compound to threads.

4. Position knob in one of six positions, and install.

Using Jack Plane

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

To use jack 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 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 10º–30º to reduce tear-out (see **Figure 11**).*

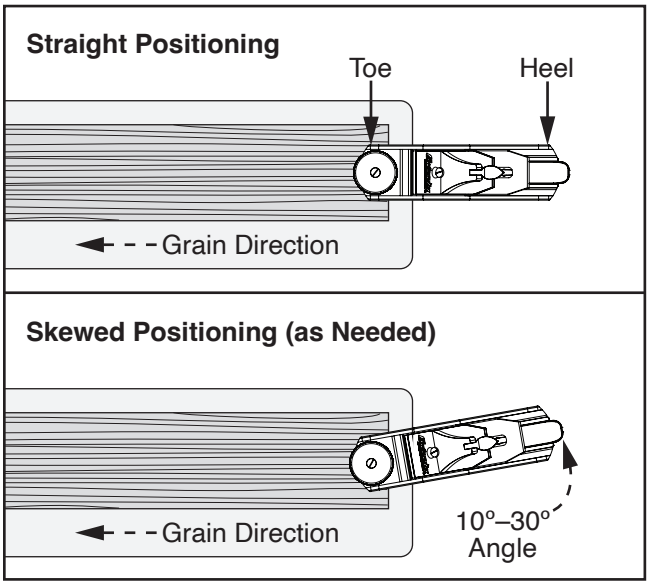


Figure 11. Alternate positioning of plane on workpiece.

4. Begin stroke with majority of hand pressure on toe end of 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**).

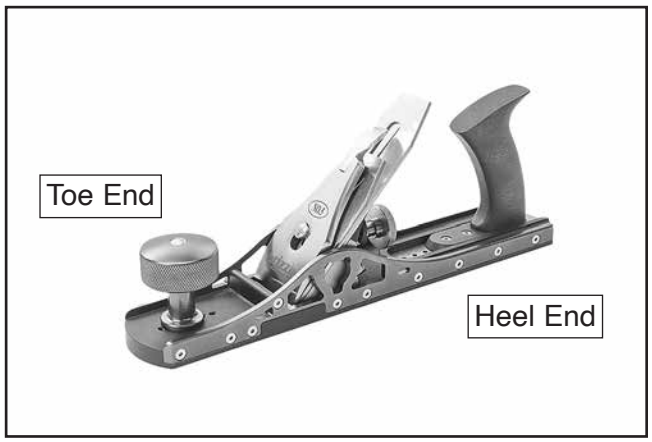


Figure 12. Toe and heel ends of jack plane.

Troubleshooting

- If the 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 plane, or when it produces excessive chatter.

- Before storing the plane, remove the blade, wipe the blade down with an oily cloth, then store the blade in a dry place to prevent rust formation.

- Lightly oil the plane and store in a sealed bag or included display case away from direct sunlight and humidity.

Accessories

T33828—Replacement Blade for No. 5 Plane
Replacement blades help restore your smoothing plane's performance. This replacement blade has a 45° bevel and comes ready to use.

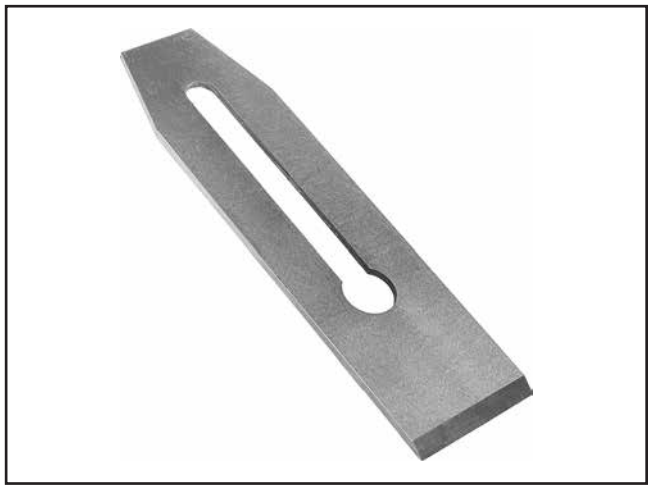


Figure 13. T33828 No. 5 Plane Blade.

Japanese Water Stones
D1067—8⅛" L x 2 9/16" W x ⅞" T, 800 Gr.
D1068—8½" L x 2½" W x 1⅜" T, 1000 Gr.
D1069—8⅛" L x 2 9/16" W x ⅞" T, 1200 Gr.
D1070—8⅛" L x 2½" W x 1⅜" T, 6000 Gr.
D1071—8⅛" L x 2½" W x 1⅜" 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. Japanese water stones.

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.

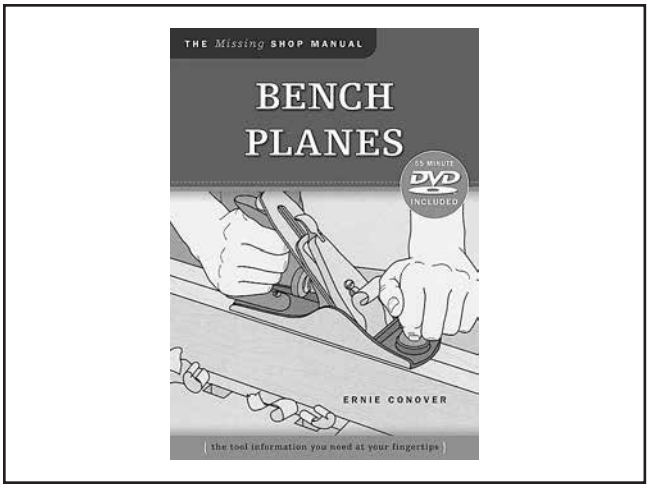


Figure 16. T23877 Bench Planes DVD & Book.

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.

WARRANTY

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