

MODEL T10745 1/2" X 18" BELT SANDER OWNER'S MANUAL



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This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Foreword

We are proud to offer this manual with the Model T10745! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the Model T10745 contained inside. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, your Model T10745 may not exactly match the manual. If you find this to be the case, and the difference between the manual and Model T10745 leaves you in doubt, check our website for the latest manual update or call technical support for help.

For your convenience, we post all available manuals and manual updates for free on our website at www.grizzly.com. Any updates to your model of machine will be reflected in these documents as soon as they are complete.

Contact Info

We stand behind our machines. If you have any service questions, parts requests or general questions about the machine, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
E-Mail: techsupport@grizzly.com

We want your feedback on this manual. If you can take the time, please email or write to us at the address below and tell us how we did:

Grizzly Industrial, Inc.
C/O Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Specifications

Motor Specifications	Universal, 200W, 120V, 60 Hz, 2A
Minimum Circuit Size	15A
Included Plug Type	NEMA 1-15
Cord Length	6 ft.
Cord Gauge	18 AWG
Number of Speeds	Variable
Belt Speed	1100–1700 FPM
Abrasive Belt Size	
Arm Tilt	Up 30, Down 30° deg.
Sound Level	92 dB
Weight	2.3 lbs.

SECTION 1: SAFETY

AWARNING

For Your Own Safety Read Instruction Manual **Before Operating This Power Tool**

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminent hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING Indicates a potentially hazardous situation which, if not avoided, <u>COULD</u> result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided. MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

AWARNING

Safety Instructions for Power Tools

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this power tool. When tool is not being used, disconnect power, and store in out-of-reach location to prevent unauthorized use-especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use tools in areas that are wet, cluttered. or have poor lighting. Operating tools in these areas greatly increases risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of power tools. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

DISCONNECT POWER FIRST. Always disconnect tool from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSIapproved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.

AWARNING

ELECTRICAL SAFETY. Tool plug must match outlet. Double-insulated tools have a polarized plug (one blade is wider than the other), which must be plugged into a polarized outlet. Never modify plug. Do not use adapter for grounded tools. Use a ground fault circuit interrupter if operation is unavoidable in damp locations. Avoid touching grounded surfaces when operating tool.

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips, which could cause loss of workpiece control. Wear hard hat as needed.

HAZARDOUS DUST. Dust created while using tools may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, always wear a NIOSH-approved respirator, and connect tool to an appropriate dust collection device to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on tool—especially near moving parts. Verify removal before starting!

INTENDED USAGE. Only use tool for its intended purpose. Never modify or alter tool for a purpose not intended by the manufacturer or serious injury or death may result!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating tool. Do not overreach! Avoid awkward hand positions that make tool control difficult or increase the risk of accidental injury.

SAFE HANDLING. Firmly grip tool. To avoid accidental firing, do not keep finger on switch or trigger while carrying.

FORCING TOOLS.. Use right tool for job, and do not force it. It will do job safer and better at rate for which it was designed.

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. This protects hands and frees both of them to operate tool.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Ensure they are properly installed, undamaged, and working correctly.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using tool if they become a distraction.

USE RECOMMENDED ACCESSORIES. Consult this manual or manufacturer for recommended accessories. Using improper accessories will increase risk of serious injury.

MAINTAIN WITH CARE. Keep cutting tool edges sharp and clean. Follow all maintenance instructions and lubrication schedules to keep tool in good working condition. A tool that is improperly maintained could malfunction, leading to serious personal injury or death. Only have tool serviced by qualified service-personnel using matching replacement parts.

CHECK DAMAGED PARTS. Regularly inspect tool for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating tool.

MAINTAIN POWER CORDS. When disconnecting cord-connected tools from power, grab and pull the plug—NOT the cord. Carrying or pulling the cord may damage wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, sharp edges, moving parts, and wet/damp locations. Damaged cords increase risk of electrocution.

UNATTENDED OPERATION. Never leave tool running while unattended. Turn tool *OFF* and ensure all moving parts completely stop before walking away.

EXPERIENCING DIFFICULTIES. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.

AWARNINGAdditional Safety for Belt Sanders

HAND PLACEMENT. Rotating sandpaper can remove a large amount of flesh in a few seconds. Always keep hands away from the sanding belt during operation. Never touch moving sanding belt on purpose.

SANDING BELT CONDITION. A sanding belt that is worn or damaged not only produces poor sanding results, but could fly apart, aggressively grab the workpiece, or throw debris at operator. Always inspect sanding belt before operation and replace it if worn or damaged.

VIBRATION GENERATED INJURIES. Limit prolonged exposure to this tool and take regular breaks. Vibrations from handheld belt sanders may result in a variety of neurological and vascular disorders.

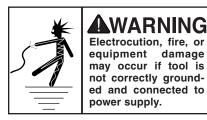
WORKPIECE INSPECTION. Nails, staples, knots, or other imperfections in workpiece can be dislodged and thrown from the sander at a high rate of speed into operator or bystanders, or cause damage to sandpaper or sander. Never attempt to sand stock that has embedded foreign objects or questionable imperfections.

ACAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment or poor work results.

SECTION 2: POWER SUPPLY

Before installing the tool, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this tool, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrican or qualified service personnel in accordance with all applicable codes and standards.



Full-Load Current Rating

The full-load current rating is the amperage a machine or tool draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating at 120V......2A

The full-load current is not the maximum amount of amps the tool will draw. If the tool is overloaded, it will draw additional amps beyond the full-load rating.

If the tool is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce risk of these hazards, avoid overloading tool during operation and make sure it is connected to a power supply circuit that meets the requirements in the following section.

AWARNING

Serious injury could occur if you connect the tool to power before completing the setup process. Do NOT connect to power until instructed later in this manual.

120V Circuit Requirements

This tool is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Voltage	120V
Cycle	60 Hz
Phase	Single-Phase
Power Supply Circuit	-

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the tool. The power supply circuit used for this tool must be sized to safely handle the full-load current drawn from the tool for an extended period of time. (If this tool is connected to a circuit protected by fuses, use a time delay fuse marked D.)



For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: The circuit requirements listed in this manual apply to a dedicated circuit—where only one machine or tool will be running at a time. If this tool will be connected to a shared circuit where multiple machines or tools will be running at the same time, consult a qualified electrician to ensure that the circuit is properly sized for safe operation.

Polarized Plug

This tool is double-insulated and therefore does not have a grounding wire or plug. The two-pronged, NEMA 1-15 plug has a polarized end; this means that one prong (the neutral connector) is wider than the other (the hot connector). Polarized plugs must be used only with polarized receptacles. Do not attempt to plug this tool into a non-polarized receptacle. If a polarized receptacle is not available, a qualified electrical technician will have to install one before the tool can be plugged in.

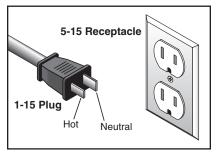


Figure 1. Typical 1-15 plug and receptacle.

Extension Cords

When using extension cords, make sure the cords are rated for outdoor use. Outdoor use cords are marked with a "W-A" or a "W" to signify their rating. Always check to make sure that the extension cords are in good working order and free of any type of damage, such as exposed wires, cuts, creased bends, or missing prongs.

Extension cords cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes. When using extension cords, always choose the shortest cord possible, with the greatest-sized gauge.

Below is a list of minimum gauge sizes needed for running this tool at different lengths:

25 Feet	16AWG
50 Feet	14AWG
100 Feet	12AWG
Over 100 Feet	Not Recommended

SECTION 3: SET UP

Unpacking

This tool was carefully packaged for safe transportation. Remove the packaging materials from around the tool and inspect it. If you discover the tool is damaged, please immediately call Customer Service at (570) 546-9663 for advice.

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of the shipment, inventory the contents.

If any non-proprietary parts are missing (e.g., a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

AWARNING

This item presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting tool!

Inventory

Мо	del T10745 Inventory	Qty
A.	Belt Sander	1
В.	Sanding Belt ½" x 18"	1

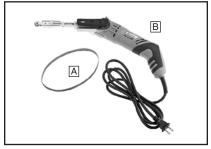


Figure 2. Model T10745 inventory.

Test Run

To test run the sander:

- 1. Insert plug into a matching 120V outlet.
- Move the black switch (located on the handle of the sander) to the "I" position to turn the sander ON. Move the switch to the "0" position to turn the sander OFF.

The sander should run smoothly. Strange or unusual noises should be investigated and corrected before operating further.

If you cannot easily locate the source of an unusual noise or vibration, contact our Technical Support for help.

SECTION 4: OPERATIONS

Selecting Abrasives

Using the proper grit of coated abrasives will provde the best results.

As a general rule, start with a coarse grit size and move through finer grit sizes until you achieve your desired finish.

Use the list below to define paper grit sizes:

Extra Coarse	12-20
Very Coarse	24-36
Coarse	40-50
Medium	60-100
• Fine	120-180
Very Fine	220-280
Extra Fine	320-400

If you are not sure which grit to start with, experiment on a hidden area on your project.

The following ½" x 18" aluminum oxide sanding belts (sold in packs of 10) are available through Grizzly:

T25729—60 Grit: Use for thickness sanding and glue removal.

T25730—80 Grit: Use for removing planer marks and initial finish sanding.

T25731—100 Grit: Use for removing planer marks and initial finish sanding.

T25732—120 Grit: Use for finish sanding. T25733—150 Grit: Use for finish sanding. T25734—180 Grit: Use for finish sanding. T25735—200 Grit: Use for finish sanding.

Gall 1-800-523-4777 To Order

Installing Belt

To install the sanding belt:

- DISCONNECT SANDER FROM POWER!
- 2. Tighten pivot knob shown in Figure 3.



Figure 3. Pivot knob location.

While holding sander body, push arm back until it clicks and locks (see Figure 4).

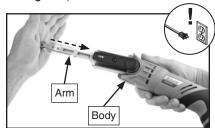


Figure 4. Locking arm.

4. Place sanding belt over front and rear drive wheels, making sure arrow on sandpaper points toward front of arm (see Figure 5).

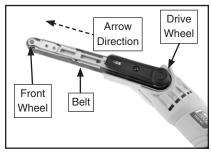


Figure 5. Sanding belt installed.

Check that sanding belt sits between drive wheel rims (see Figure 6) and is centered over front wheel. This will help ensure belt operates correctly.

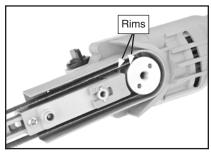


Figure 6. Sanding belt installed between wheel rims (cover removed for clarity).

6. Press belt tension button (see Figure7) to tension sanding belt.

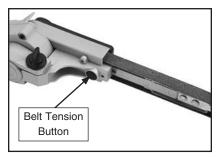


Figure 7. Belt tension button location.

Replacing Belt

When the sanding belt loses its effectiveness, is damaged, or shows signs of excessive wear, it must be replaced.

To replace the sanding belt:

- DISCONNECT SANDER FROM POWER!
- Push arm back (see Figure 8) until it clicks and locks.

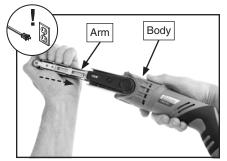


Figure 8. Removing belt tension.

- 3. Remove sanding belt from wheels.
- 4. To install a new belt, refer to **Installing**Belt on Page 9.

Operating Sander

AWARNING



EYE/LUNG/EAR
INJURY HAZARD!
Wear protective
equipment when
using this tool.



ACCIDENTAL START HAZARD! Disconnect before service or tool changes.

WARNING

ELECTRICAL SHOCK HAZARD!
Only use sander for dry sanding.
Never use sander for wet sanding!

To operate sander:

- 1. Loosen the pivot knob, turn arm to desired angle, then tighten pivot knob.
- 2. Connect plug to a matching receptacle.
- **3.** Secure workpiece so it does not move during operations.
- Hold sander with both hands and push ON/OFF switch to "I". Turn variable speed dial to set desired belt speed (see Figure 9).

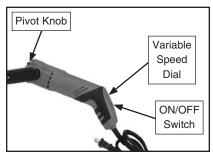


Figure 9. Sander controls.

- Wait until the sander gains full speed, then press the belt lightly against the workpiece.
- **6.** When finished, turn sander *OFF*, and unplug from receptacle.

Tips

For best results, use a low speed setting with a fine grit, or when sanding plastics, ceramics, or removing painted surfaces. Use a high speed setting with a coarse grit, and when removing a lot of material.

When sanding wood, work evenly in the same direction as the grain. Keep the sander moving so the finish stays consistent.

Sanding across the grain may be necessary to remove rough spots. This should be done carefully, as it can produce crossgrain scratching that may be difficult to remove.

Change the belt as soon as the grit becomes dull. To extend the life of the belt, only apply as much force as necessary.

Recommended Uses

The Model T10745 is designed to sand and grind wood, iron, and plastic. It can be used for:

- Sanding flat surfaces, corners, and inner openings.
- Chamfering and deburring metal.
- Removing paint, rust, and weld splatters.
- Sharpening blades.

SECTION 5: MAINTENANCE



AWARNING

Always DISCONNECT POWER before servicing, adjusting, or doing maintenance to reduce the risk of accidental injury or electrocution.

General

Regular periodic maintenance on the Model T10745 Belt Sander will ensure its optimum performance. Make a habit of inspecting the sander each time you use it. Check for the following conditions and repair or replace when necessary:

- Loose fasteners.
- Worn switch.
- · Worn or damaged cords and plugs.
- · Worn or damaged sanding belt.
- Any other condition that could hamper the safe operation of this tool.

Keeping Tool Clean

The Model T10745 Belt Sander will give you years of trouble free service if you keep it clean and free of built-up dust or grime. If air passages get blocked, blow them out with compressed air.

Plastic parts can easily be cleaned with a damp cloth, but never use water to clean any electrical parts. Solvents should also be avoided on plastic because of the possibility of damage.

If possible, use a scraper to remove glue or sap from your work; these elements may hinder the effectiveness of the abrasive belt and cause unnecessary build-up of grime on the sander.

SECTION 6: SERVICE

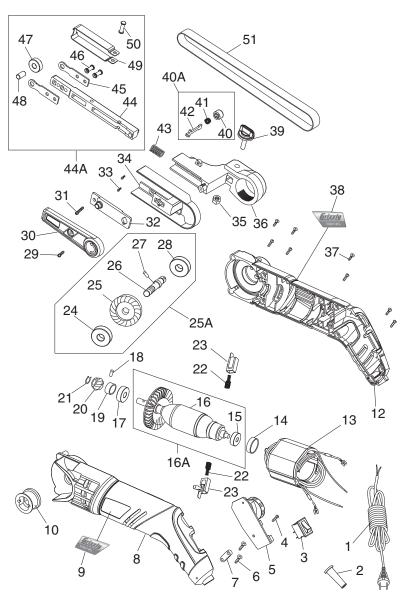
Troubleshooting

Symptom	Possible Cause	Solution
Tool does not start	Power cord not connected.	Connect power cord to receptacle.
	Power supply switched <i>OFF</i> , breaker tripped, fuse blown, or power supply is at fault.	Allow motor to cool completely and retry.
	ON/OFF switch at fault. Motor at fault.	Replace switch.* Test/repair/replace.*
Tool stalls or is underpowered.	Workpiece material not suitable for machine. Tool is undersized for task.	Ensure moisture content of wood is below 20%. Reduce feed rate/press with less pressure against workpiece.
	Motor overheated. Extension cord too long or	Clean motor, let cool, and reduce workload.
Sanding results diminish over time.	diameter too small. 1. Abrasive belt dull or damaged.	Replace belt.
Tool has vibration or noisy operation.	Motor or component loose.	Have qualified service personnel service tool.
Tool overheating.	Motor forced to work too fast. Belt dull or damaged. Exhaust port blocked.	1. Let tool work at its own pace. 2. Replace belt. 3. Remove blockage from exhaust port.

^{*} Solution should only be carried out by or under supervision of qualified service personnel.

SECTION 7: PARTS

Main Breakdown



Main Parts List

REF	PART #	DESCRIPTION
1	PT10745001	POWER CORD 18G 2W 72" 1-15
2	PT10745002	POWER CORD SLEEVE
3	PT10745003	ON/OFF SWITCH 250V 6A
4	PT10745004	TAP SCREW M3 X 8
5	PT10745005	VARIABLE SPEED CIRCUIT BOARD
6	PT10745006	TAP SCREW M4 X 16
7	PT10745007	CABLE CLAMP
8	PT10745008	LEFT HOUSING
9	PT10745009	MODEL NUMBER LABEL (L)
10	PT10745010	REAR DRIVE WHEEL
12	PT10745012	RIGHT HOUSING
13	PT10745013	STATOR
14	PT10745014	DAMPING RING
15	PT10745015	BALL BEARING 626ZZ
16	PT10745016	ROTOR
16A	PT10745016A	ROTOR ASSEMBLY
17	PT10745017	BALL BEARING 626ZZ
18	PT10745018	PINION BUSHING PIN
19	PT10745019	PINION BUSHING
20	PT10745020	PINION
21	PT10745021	EXT RETAINING RING 6MM
22	PT10745022	CARBON BRUSH 2-PC SET
23	PT10745023	CARBON BRUSH HOLDER
24	PT10745024	BALL BEARING 608-2RS
25	PT10745025	GEAR WHEEL
25A	PT10745025A	GEAR WHEEL ASSEMBLY
26	PT10745026	OUTPUT SHAFT

REF	PART #	DESCRIPTION
27	PT10745027	GEAR WHEEL PIN
28	PT10745028	BALL BEARING 608-2RS
29	PT10745029	PHLP HD SCR M47 X 8
30	PT10745030	DRIVE WHEEL COVER
31	PT10745031	PHLP HD SCR M47 X 20
32	PT10745032	DRIVE WHEEL COVER MOUNT
33	PT10745033	PHLP HD SCR M35 X 6
34	PT10745034	ARM BRACKET
35	PT10745035	HEX NUT M58
36	PT10745036	ARM SUPPORT STAND
37	PT10745037	TAP SCREW M35 X 12
38	PT10745038	MODEL NUMBER LABEL (R)
39	PT10745039	PIVOT KNOB M58 X 20
40	PT10745040	BELT TENSION BUTTON
40A	PT10745040A	BELT TENSION BUTTON ASSEMBLY
41	PT10745041	COMPRESSION SPRING
42	PT10745042	BUTTON LATCH HOOK
43	PT10745043	COMPRESSION SPRING
44	PT10745044	TENSION ARM
44A	PT10745044A	TENSION ARM ASSEMBLY
45	PT10745045	MOUNTING PLATE ARM
46	PT10745046	RIVET 3 X 10 FLAT HEAD ALUM
47	PT10745047	BALL BEARING 606ZZ
48	PT10745048	FRONT BEARING SHAFT
49	PT10745049	FRONT ARM SUPPORT BRACKET
50	PT10745050	RIVET 3 X 14 FLAT HEAD ALUM
51	PT10745051	SANDING BELT 1/2" X 18"

WARRANTY

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.

To take advantage of 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.

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.

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.



Buy Direct and Save with Grizzly® – Trusted, Proven and a Great Value! ~Since 1983~

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ORDER 24 HOURS A DAY! 1-800-523-4777







