

Grizzly *Industrial, Inc.*®

MODEL T25101 BENCHTOP ENGLISH WHEEL OWNER'S MANUAL *(For models manufactured since 02/19)*



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**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
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V2.01.19



WARNING!

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

Machine Description

The Model T25101 Benchtop English Wheel is a bench-mounted tool that forms complex curves in flat sheet metal, such as aluminum or steel.

The wheels are adjusted to exert pressure on the sheet metal, then the sheet is moved back and forth through the wheels to stretch the metal and produce customized curves.

Contact Info

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the **serial number** and **manufacture date** from the machine ID label. This will help us help you faster.

Grizzly Technical Support
1815 W. Battlefield
Springfield, MO 65807
Phone: (570) 546-9663
Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that **sometimes the machine you receive is slightly different than shown in the manual.**

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at www.grizzly.com.

Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **Manufacture Date** and **Serial Number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.

		MODEL GXXXX	
		MACHINE NAME	
SPECIFICATIONS		▲ WARNING!	
Motor:		To reduce risk of serious injury when using this machine:	
Specification:		1. Read manual before operation.	
Specification:		2. Wear safety glasses and respirator.	
Specification:		3. Make sure safety glasses/adjustment and	
Specification:		4. Make sure the motor has stopped and disconnect	
Weight:		5. DO NOT expose to rain or dampness.	
		6. DO NOT modify this machine in any way.	
		7.	
		8.	
		9.	
		10. Maintain machine carefully to prevent accidents.	
		Manufactured for Grizzly in Taiwan	

Manufacture Date

Serial Number



Identification

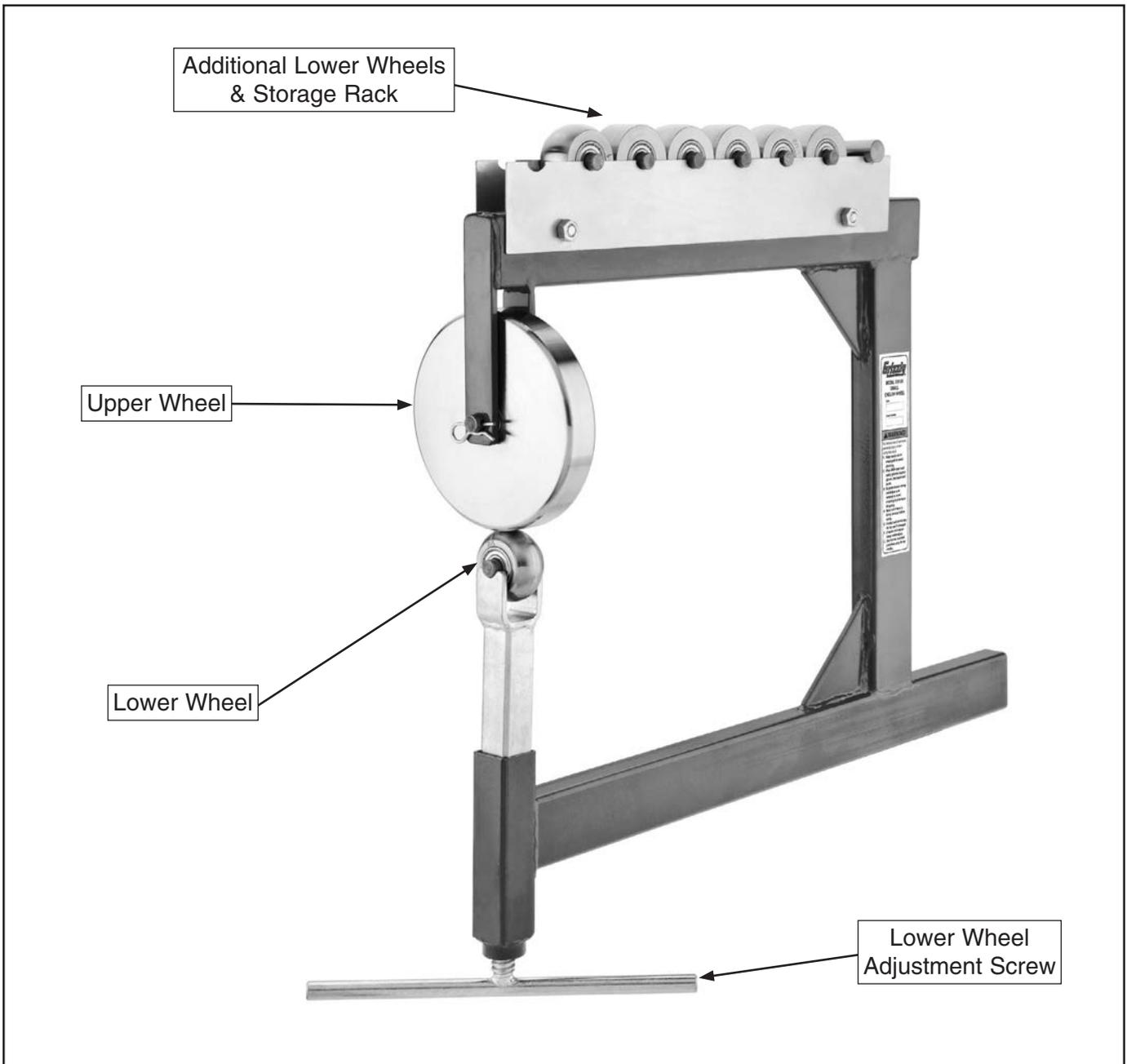
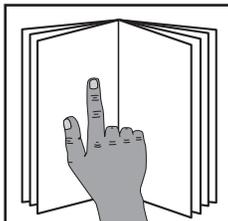


Figure 1. Model T25101.

	<p>⚠ WARNING To reduce your risk of serious injury, read this entire manual BEFORE using machine.</p>
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MACHINE DATA SHEET

© Grizzly Industrial, Inc. • Customer Service: (800) 523-4777 • Tech Support: (570) 546-9663

MODEL T25101 SMALL ENGLISH WHEEL

Product Dimensions:

Weight 18 lbs.
Width (side-to-side)/Depth (front-to-back)/Height 1" x 23¼" x 19¹/₁₆"

Shipping Dimensions:

Type Cardboard Box
Content Equipment
Weight 30 lbs.
Width/Depth/Height 2" x 21" x 25"

Overall Dimensions:

Number of Upper Wheels 1
Upper Wheel Diameter 149mm (5⁷/₈")
Upper Wheel Contour Flat
Number of Lower Wheels 7
Lower Wheel Diameters 50mm (2")
Lower Wheel Contours Flat, ½" Radius, 1" Radius, 1½" Radius, 2½" Radius, 5" Radius, 9" Radius
Throat 15³/₈"

Main Specifications:

Capacity 16 Gauge Mild Steel, Aluminum, Copper

Construction

Frame Steel Tubing
Wheels Hardened Steel
Paint Powder Coated

Other Specifications:

Country Of Origin China
Warranty 1 Year
Assembly Time 10 Minutes

Features:

- Quick-Release Lever
- Bench Mounted
- 1 Upper Wheel, 7 Lower Wheels
- Wheel Storage Rack



SECTION 1: SAFETY

For Your Own Safety, Read Instruction Manual Before Operating This Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words 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. Always use common sense and good judgment.

⚠ DANGER Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

⚠ CAUTION 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 Alerts the user to useful information about proper operation of the machine to avoid machine damage.

Safety Instructions for Machinery

⚠ WARNING

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 machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

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

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

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine 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 ANSI-approved 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.



WARNING

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 reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations 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 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. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

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

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

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

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

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

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine **OFF** and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the 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, and wet/damp locations.

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.



Additional Safety for English Wheels

WARNING

Fingers can be broken or severely pinched if caught between wheels during operation. Severe cuts can occur from sliding along or pushing against sharp workpiece edges. To minimize risk of injury, anyone operating this machine **MUST** completely heed the hazards and warnings below.

PINCHING/CRUSHING HAZARD. The rolling momentum of wheels can pull your fingers between them, resulting in pinching or crushing injuries. Always keep your hands away from wheel path when moving workpiece through wheels.

METAL EDGES. The sharp edges of sheet metal can quickly cut your fingers or hands. Always wear heavy leather gloves when handling sheet metal. Always chamfer and deburr sharp metal edges before inserting them into English Wheel.

TOOL USAGE. This English Wheel was designed only to form curves in sheet metal material such as steel, aluminum, and copper. Do not attempt to process any other material (e.g., glass, ceramic, plastic, etc.) that could result in material or tool breakage. Do not modify this tool in any way and do not exceed the capacity listed in the **Machine Data Sheet**.

CRUSHING HAZARD. If wheels or frame should unexpectedly fall, crushing injuries could result. Always make sure frame is correctly mounted to bench or floor, as appropriate. Make sure wheels are properly installed on support brackets or storage racks. Wear steel-toed boots.

BODY POSITION. Losing your balance while tracking could result in impact injuries or cuts from sheet metal. Make sure your body and footing are balanced and in a good position to support your movement and momentum while tracking.

TOOL INSPECTION. Using English Wheel with excessively worn or damaged parts could cause tool to fail and present injury hazards, as well as yield poor results. Always inspect each part of English Wheel before beginning operations.

WARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

CAUTION

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: SETUP

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. ***If items are damaged, please call us immediately at (570) 546-9663.***

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. *You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.*

	<p>!WARNING SUFFOCATION HAZARD! Keep children and pets away from plastic bags or packing materials shipped with this machine.</p>
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Needed for Setup

The following are needed to complete the setup process, but are not included with your machine.

Description	Qty
• Small Hammer.....	1
• Wrench or Socket 12mm.....	1
• Wrench or Socket 14mm.....	1
• Vise Secured to Workbench.....	1
• Sturdy Workbench.....	1



Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

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.

Shipping Inventory (Figure 2)	Qty
A. Frame	1
B. Upper Wheel	1
C. Lower Wheel Adjustment Screw	1

D. Lower Wheels.....	1
— 1/2" Radius	1
— 1" Radius	1
— 1 1/2" Radius.....	1
— 2 1/2" Radius.....	1
— 5" Radius	1
— 9" Radius	1
— Flat.....	1
E. Lower Wheel Bracket	1
F. Bracket Spacer Rod	1
G. Hairpin Cotter Pin 3/8" x 1 7/8".....	1
H. Hex Nuts 1/4"-20	2
I. Hex Bolts 1/4"-20 x 1 1/4"	2
J. Lower Wheel Axle Rods.....	7
K. Upper Wheel Clevis Pin	1
L. Wheel Storage Racks.....	2
M. Knob Bolt M8-1.25 x 20.....	1

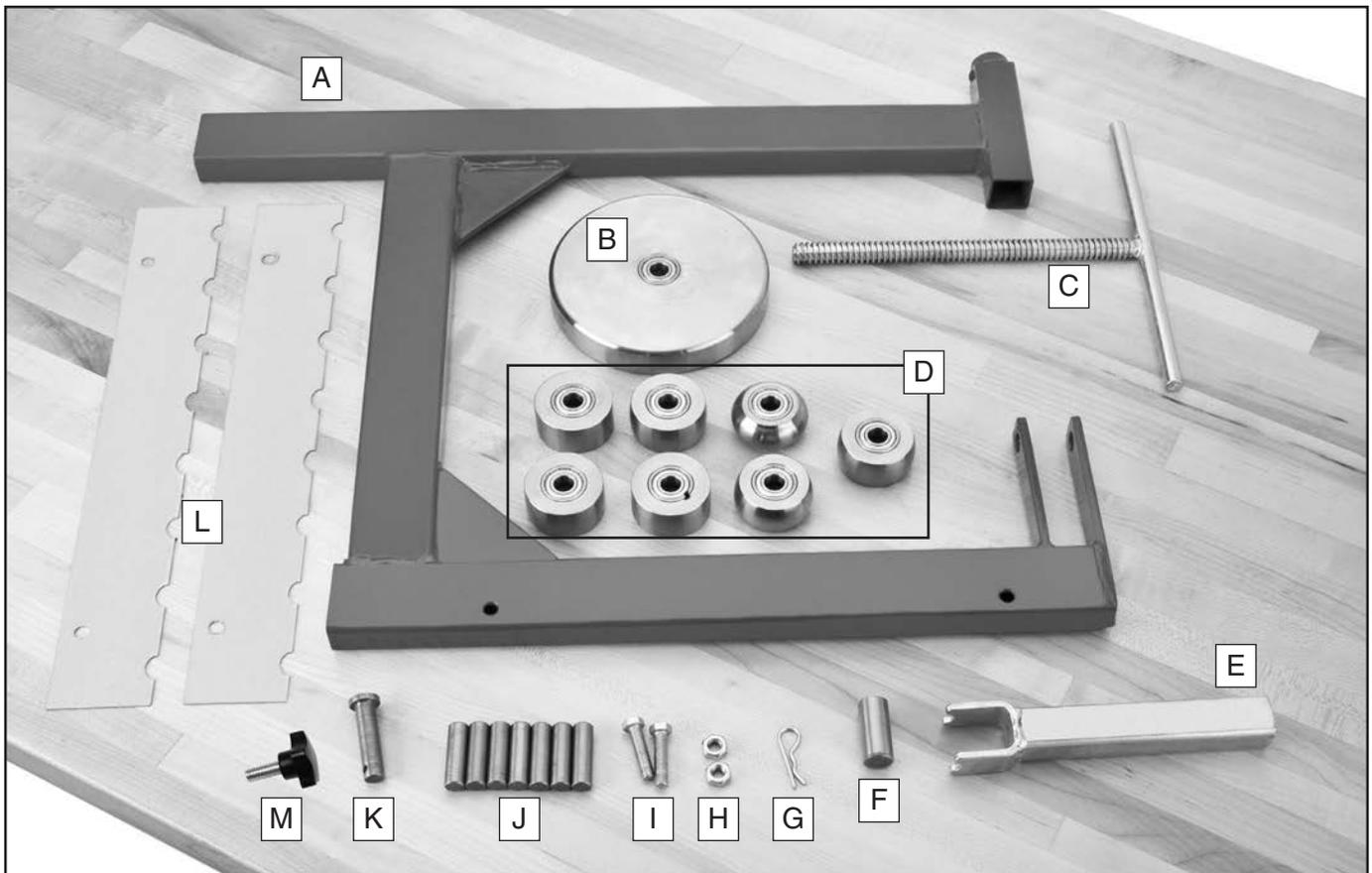


Figure 2. Model T25101 inventory.

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.



Workbench Mounting

The forces exerted on the English wheel during operation are substantial. The English wheel must be firmly secured in a vise (see **Figure 3** for an example) that is solidly attached to a workbench or table that will support the weight and dynamic pressures of the operation.

*Make sure that you have a workbench and vise setup for the English Wheel before performing the **Assembly** instructions. Refer to **Page 15** for options from Grizzly.*

Note: Use pieces of cardboard or wood between the vise jaws and the frame to prevent frame damage.



Figure 3. Example of Model T25101 secured in vise mounted to a workbench.

⚠ CAUTION

Make sure the workbench that the English wheel will be mounted on is stable and can support the weight of the tool, the workpiece, and the forces exerted during operation.

Assembly

To assemble the English wheel:

1. Insert bracket spacer rod into bottom of lower wheel bracket, as shown in **Figure 4**.

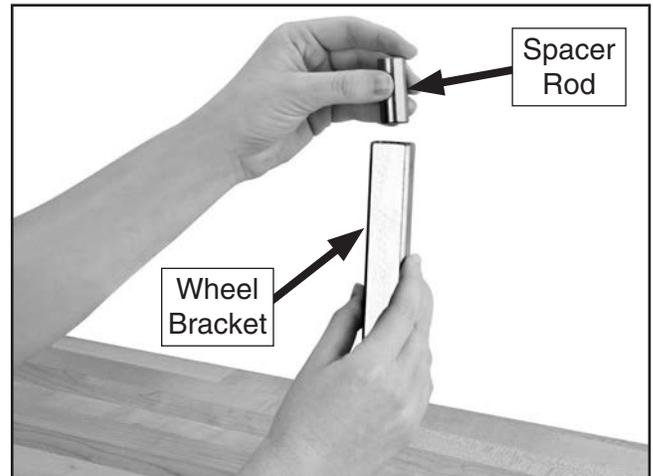


Figure 4. Inserting spacer rod into wheel bracket.

2. Turn frame upside down and insert lower wheel bracket into frame, as shown in **Figure 5**.

Note: Inserting the wheel bracket into the frame when it is upside down will keep the spacer rod inside the bracket.

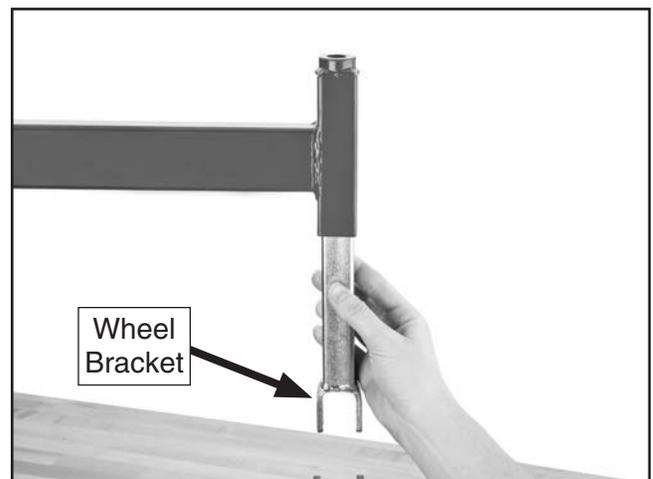


Figure 5. Inserting wheel bracket into frame.



3. Lay frame down flat and thread lower wheel adjustment screw into frame opposite the wheel bracket (see **Figure 6**).
4. Install M8-1.25 x 20 knob bolt into threaded boss on frame (see **Figure 6**).

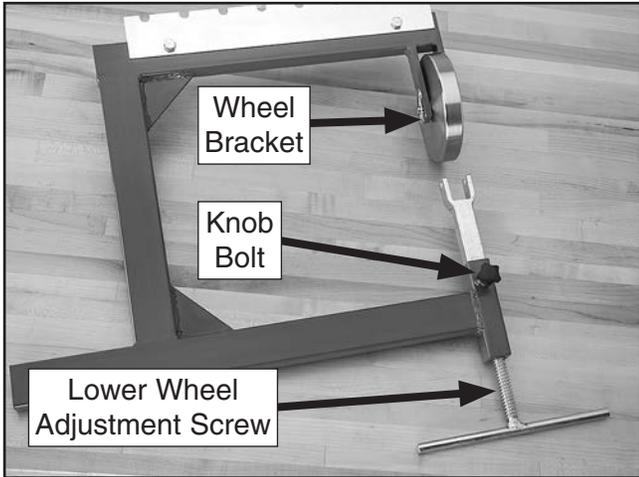


Figure 6. Lower wheel adjustment screw and knob bolt installed.

5. Secure assembly in a bench-mounted vise, as described on previous page.

Note: Make sure the adjustment screw handle has enough clearance from the bench to fully rotate (see **Figure 7**).

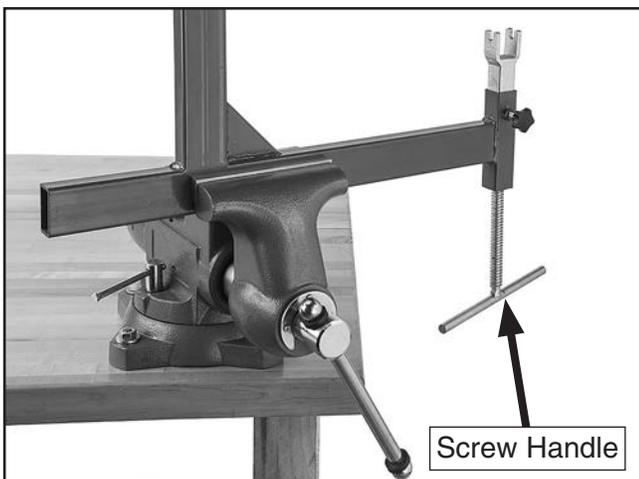


Figure 7. Adequate clearance to fully rotate adjustment screw handle.

6. Position the upper wheel between the frame arms, insert the upper wheel clevis pin through the arms and wheel, and secure the pin with the hairpin cotter pin (see **Figure 8**).

Note: If the cotter pin does not easily slide into the clevis pin hole, insert it as far as you can and use a small hammer to tap it the rest of the way.

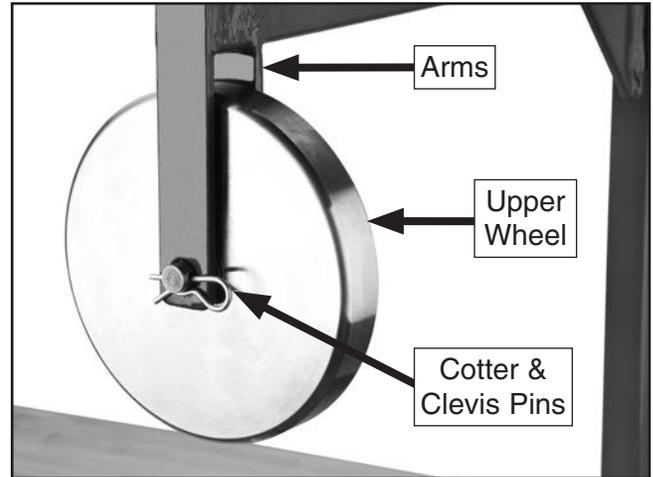


Figure 8. Upper wheel installed.



7. Attach the lower wheel storage racks to the frame top with (2) 1/4"-20 x 1 1/4" hex bolts and (2) 1/4"-20 hex nuts (see **Figure 9**).

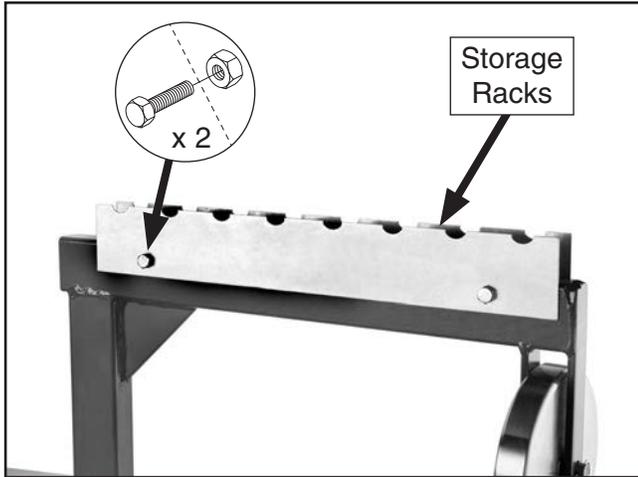


Figure 9. Storage racks installed.

8. Insert a lower wheel axle rod into each lower wheel, then place the assemblies on the wheel storage racks (see **Figure 10**).

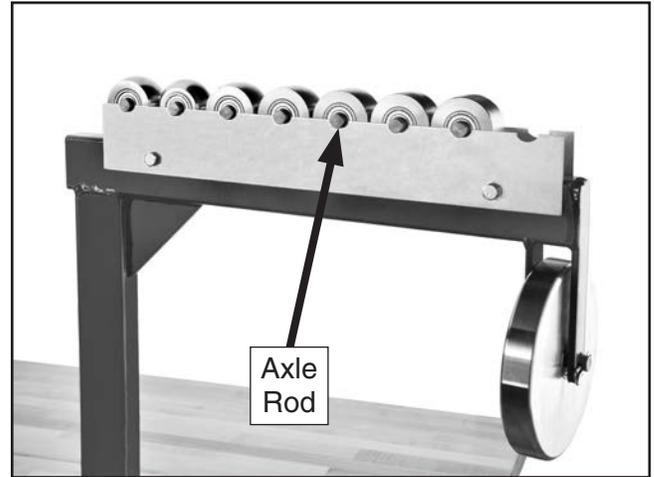


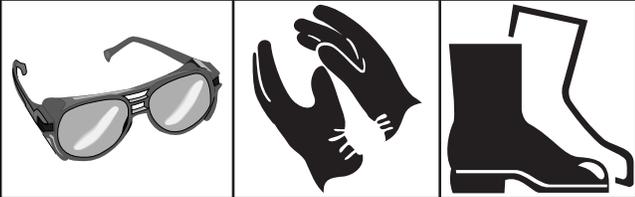
Figure 10. Lower wheel assemblies on wheel storage racks.



SECTION 3: OPERATIONS

WARNING

Damage to your eyes, hands and feet could result from using this tool without proper protective gear. Always wear safety glasses, leather gloves, and steel toe footwear when operating this tool.



NOTICE

If you are not experienced with this type of machine, **WE STRONGLY RECOMMEND** that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Tracking Tips

- Stretching metal into a curve should be a gradual process. Always start with just enough wheel pressure to prevent the workpiece from skipping or slipping through the wheels. After the initial curve has formed, increase the pressure slightly and continue stretching the metal. Repeat this process until the desired curve is attained. Using too much pressure will damage the workpiece surface and produce poor results.
- Start with the lower wheel that has the least radius (crown), then increase the wheel radius a step at a time until the desired curve is reached.
- Practice with a scrap piece that is the same material and thickness as the actual workpiece.
- Leave a frame around the workpiece of approximately 1" that does not go through the wheels. As the center of the workpiece stretches and the frame does not, the metal is forced to bend into a curve.
- Take your time. Many passes through the wheels with gradual increases in pressure and lower wheel radii will produce good results and reduce the risk of damaging the workpiece surface.
- Overlap each pass with the previous one in a smooth back-and-forth movement through the wheels. There are many patterns of tracking that will produce different results. Choosing the correct pattern for your operation is a matter of research and experience.



Basic Operations

The individual results from using an English wheel are countless. Practice, read books/internet sites, watch videos, and seek advice from experienced wheelers to gain necessary knowledge and experience to produce good results.

The procedure below is an example of a very basic operation.

To use the English wheel:

1. Make sure the frame is firmly secured in a bench-mounted vise that is solidly attached to a bench or table that will support the weight and pressures of the operation.
2. Put on safety glasses, leather gloves, and steel-toed boots.
3. Deburr the sharp edges of the workpiece (see **Accessories** on **Page 15** for an optional deburring tool).
4. Mark a frame around the workpiece of approximately 1".
5. Clean the wheels to remove any abrasive material that could damage the surfaces of the workpiece or wheels.
6. Install the lower wheel with the least radius (crown).
7. Use the lower wheel adjustment screw to raise the lower wheel up, leaving enough room to insert the workpiece between the wheels, then tighten the knob bolt.
8. Insert the workpiece between the wheels and adjust the lower wheel so that the wheel pressure is just enough to prevent the workpiece from skipping or slipping through the wheels.

9. Move the workpiece back and forth through the wheels in an overlapping pattern (see example in **Figure 11**).

Note: *This example is just one of many patterns of tracking.*

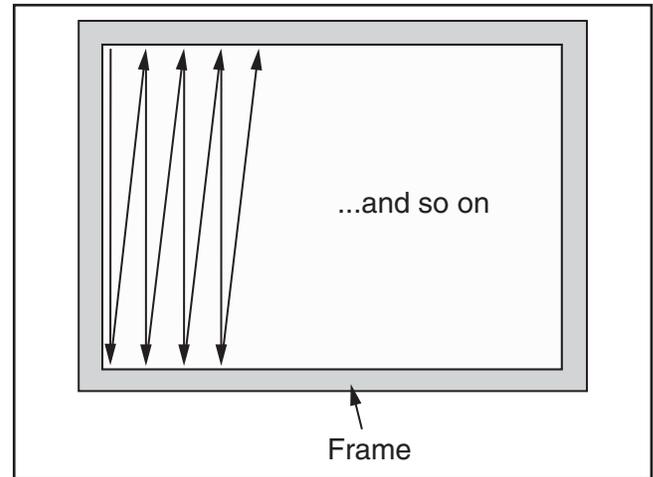


Figure 11. Example of basic back-and-forth tracking pattern.

10. When the workpiece no longer stretches, rotate the lower wheel adjustment screw clockwise to slightly increase the pressure.
11. When maximum wheel pressure is reached and the workpiece no longer moves through the wheels, change the lower wheel to the next highest radius.
12. Repeat **Steps 5–9** until the desired curve is attained.



SECTION 4: ACCESSORIES

! WARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

Heavy-Duty Bench Vises with Anvils

G7059—5", 45 lbs.

G7060—6", 68 lbs.

These tough vises are ideal for all bench work applications. Large machined center slide keeps jaws aligned under maximum pressure. Other features include large Acme screws, anvil faces, and 0°–90° swivel.

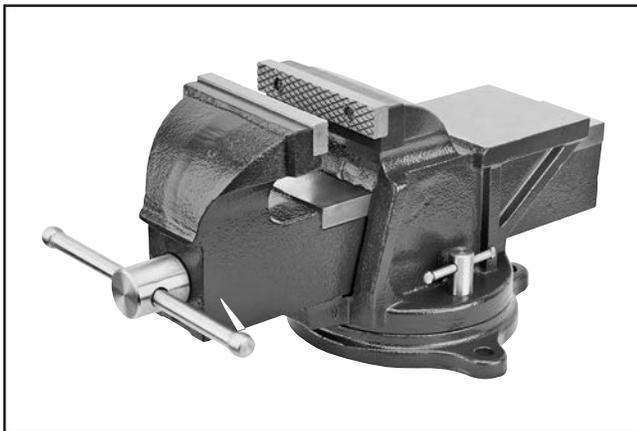


Figure 12. Heavy-Duty Bench Vise with Anvil.

G5618—Deburring Tool with two Blades

The quickest tool for smoothing freshly sheared metal edges. Comes with two blades, one for steel and aluminum and one for brass and cast iron.

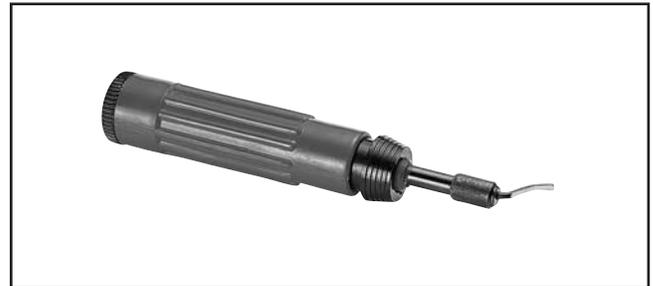


Figure 13. Model G5618 Deburring Tool.

Super Heavy-Duty Birch Workbench

H8361—60" x 30"

H8362—72" x 36"

Sized to fit the needs of any shop, these Super Heavy-Duty Birch Workbenches have solid 3" thick tops that stand 38" above the floor. The end vise measures 14³/₄" wide (H8361) or 17³/₄" wide (H8362) and has a 7" maximum capacity. Stable laminated birch provides strength and durability. You'll be proud to have this workbench in your shop!



Figure 14. Super Heavy-Duty Birch Workbench.

order online at www.grizzly.com or call 1-800-523-4777



SECTION 5: MAINTENANCE

Schedule

For optimum performance from your tool, follow this maintenance schedule and refer to any specific instructions given in this section.

Daily Check:

- Damaged wheels.
- Damaged or cracked frame.
- Any other unsafe condition.

Daily Maintenance:

- Clean and protect wheels.

Cleaning & Protecting

Use clean shop rags to clean all wheel surfaces and the wheel axle rods. Apply a metal protectant then wipe off any excess to leave a thin coat.

Lubrication

The wheel bearings are factory lubricated and sealed, and do not require lubrication. Merely leave them alone unless they need replacement.

Periodically, remove the lower wheel adjustment screw and wipe the threads with a lightly-oiled shop rag.



SECTION 6: SERVICE

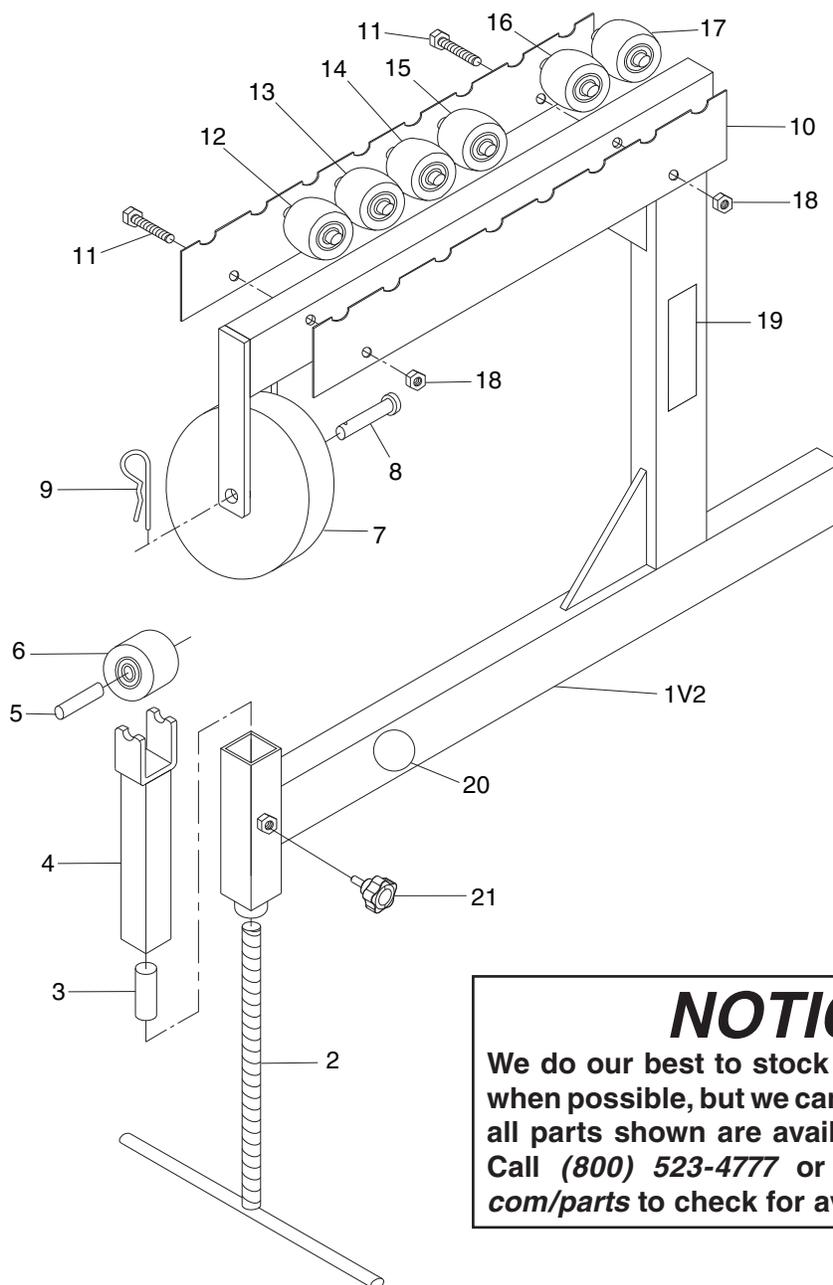
Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting

Symptom	Possible Cause	Possible Solution
Workpiece surface is marred or scratched.	<ol style="list-style-type: none">1. Too much wheel pressure.2. Wheels are dirty.	<ol style="list-style-type: none">1. Reduce wheel pressure.2. Clean and protect all wheel surfaces (see Page 16).
Workpiece does not move through wheels without excessive force.	<ol style="list-style-type: none">1. Too much wheel pressure.2. Wheel bearings at fault.	<ol style="list-style-type: none">1. Reduce wheel pressure.2. Replace wheel bearings.
Workpiece curve is too high.	<ol style="list-style-type: none">1. Lower wheel radius is too great.	<ol style="list-style-type: none">1. Use a lower wheel with less radius (crown).
Workpiece curve is not high enough.	<ol style="list-style-type: none">1. Lower wheel radius is not enough.	<ol style="list-style-type: none">1. Start with lower wheel of least radius and work up to correct radius for the operation.
Workpiece curve will not form.	<ol style="list-style-type: none">1. Not enough wheel pressure.2. Lower wheel has flat surface.	<ol style="list-style-type: none">1. Gradually increase wheel pressure.2. Use lower wheel(s) with a radius (crown).
Workpiece has wrinkles.	<ol style="list-style-type: none">1. Tracking pattern at fault.2. Too much wheel pressure.	<ol style="list-style-type: none">1. Use a consistent and smooth tracking pattern that overlaps with each back-and-forth pass.2. Start with least amount of pressure, then gradually increase pressure when the curve stops forming.



SECTION 7: PARTS



NOTICE

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call (800) 523-4777 or visit www.grizzly.com/parts to check for availability.

REF	PART #	DESCRIPTION
1V2	PT25101001V2	FRAME V2.02.19
2	PT25101002	LOWER WHEEL ADJ SCREW
3	PT25101003	BRACKET SPACER ROD
4	PT25101004	LOWER WHEEL BRACKET
5	PT25101005	LOWER WHEEL AXLE ROD
6	PT25101006	FLAT LOWER WHEEL
7	PT25101007	UPPER WHEEL
8	PT25101008	UPPER WHEEL CAPTIVE PIN
9	PT25101009	HAIRPIN COTTER PIN 3/8 X 1-7/8
10	PT25101010	WHEEL STORAGE RACK
11	PT25101011	HEX BOLT 1/4-20 X 1-1/4

REF	PART #	DESCRIPTION
12	PT25101012	LOWER WHEEL 1/2" RADIUS
13	PT25101013	LOWER WHEEL 1" RADIUS
14	PT25101014	LOWER WHEEL 1-1/2" RADIUS
15	PT25101015	LOWER WHEEL 2-1/2" RADIUS
16	PT25101016	LOWER WHEEL 5" RADIUS
17	PT25101017	LOWER WHEEL 9" RADIUS
18	PT25101018	HEX NUT 1/4-20
19	PT25101019	MACHINE ID LABEL
20	PT25101020	TOUCH-UP PAINT, GRIZZLY GREEN
21	PT25101021	KNOB BOLT M8-1.25 X 20, 5-LOBE





WARRANTY CARD

Name _____
 Street _____
 City _____ State _____ Zip _____
 Phone # _____ Email _____
 Model # _____ Order # _____ Serial # _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. **Of course, all information is strictly confidential.**

1. How did you learn about us?

<input type="checkbox"/> Advertisement	<input type="checkbox"/> Friend	<input type="checkbox"/> Catalog
<input type="checkbox"/> Card Deck	<input type="checkbox"/> Website	<input type="checkbox"/> Other:

2. Which of the following magazines do you subscribe to?

<input type="checkbox"/> Cabinetmaker & FDM	<input type="checkbox"/> Popular Science	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Woodshop News
<input type="checkbox"/> Hand Loader	<input type="checkbox"/> Precision Shooter	<input type="checkbox"/> Woodsmith
<input type="checkbox"/> Handy	<input type="checkbox"/> Projects in Metal	<input type="checkbox"/> Woodwork
<input type="checkbox"/> Home Shop Machinist	<input type="checkbox"/> RC Modeler	<input type="checkbox"/> Woodworker West
<input type="checkbox"/> Journal of Light Cont.	<input type="checkbox"/> Rifle	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Live Steam	<input type="checkbox"/> Shop Notes	<input type="checkbox"/> Other:
<input type="checkbox"/> Model Airplane News	<input type="checkbox"/> Shotgun News	
<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Today's Homeowner	
<input type="checkbox"/> Popular Mechanics	<input type="checkbox"/> Wood	

3. What is your annual household income?

<input type="checkbox"/> \$20,000-\$29,000	<input type="checkbox"/> \$30,000-\$39,000	<input type="checkbox"/> \$40,000-\$49,000
<input type="checkbox"/> \$50,000-\$59,000	<input type="checkbox"/> \$60,000-\$69,000	<input type="checkbox"/> \$70,000+

4. What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 30-39	<input type="checkbox"/> 40-49
<input type="checkbox"/> 50-59	<input type="checkbox"/> 60-69	<input type="checkbox"/> 70+

5. How long have you been a woodworker/metalworker?

<input type="checkbox"/> 0-2 Years	<input type="checkbox"/> 2-8 Years	<input type="checkbox"/> 8-20 Years	<input type="checkbox"/> 20+ Years
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6. How many of your machines or tools are Grizzly?

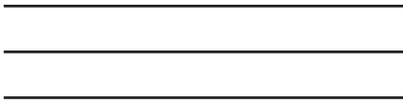
<input type="checkbox"/> 0-2	<input type="checkbox"/> 3-5	<input type="checkbox"/> 6-9	<input type="checkbox"/> 10+
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7. Do you think your machine represents a good value? Yes No
8. Would you recommend Grizzly Industrial to a friend? Yes No
9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: We never use names more than 3 times. Yes No

10. Comments: _____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE



Place
Stamp
Here



GRIZZLY INDUSTRIAL, INC.
P.O. BOX 2069
BELLINGHAM, WA 98227-2069



FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

Name	_____
Street	_____
City	_____ State _____ Zip _____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

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.

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.

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