

## WOOD LATHE MODEL G1067Z INSTRUCTION MANUAL



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WARNING

- 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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## **SECTION 1: SAFETY**

## 

### For Your Own Safety Read Instruction Manual Before Operating This Equipment

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 imminently hazardous situation which, if not avoided, <u>WILL</u> 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, <u>MAY</u> 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.

## 

## **Safety Instructions For Power Tools**

- 1. KEEP GUARDS IN PLACE and in working order.
- 2. REMOVE ADJUSTING KEYS AND WRENCHES. Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- **3. KEEP WORK AREA CLEAN**. Cluttered areas and benches invite accidents.
- 4. NEVER USE IN DANGEROUS ENVIRONMENT. DO NOT use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

- 5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept at a safe distance from work area.
- 6. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
- 7. NEVER FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- 8. USE RIGHT TOOL. DO NOT force tool or attachment to do a job for which it was not designed.

## AWARNING Safety Instructions For Power Tools

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

•			
	LI	ENGTH	
AMP RATING	25ft	50ft	100ft
0-6	16	16	16
7-10	16	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

Minimum Gauge for Extension Cords

- **10. WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- **11. ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- **12. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- **13. DO NOT OVER-REACH.** Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

- **15. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING. On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.
- 17. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **18. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** DO NOT leave tool until it comes to a complete stop.
- 19. NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Full mental alertness is required at all times when running a machine.
- 20. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPERATE THE MACHINE. Make sure any instructions you give in regards to machine operation are approved, correct, safe, and clearly understood.
- 21. IF AT ANY TIME YOU ARE EXPERIENC-ING DIFFICULTIES performing the intended operation, stop using the machine! Then contact our service department or ask a qualified expert how the operation should

## **A**WARNING

## **Additional Safety Instructions For The Lathe**

- 1. MAKE SURE ALL GUARDS are in place and that the Lathe sits on a flat, stable surface.
- 2. ALWAYS WEAR EYE PROTECTION or a face shield when operating the Lathe. All safety equipment should be ANSI approved.
- 3. USE A RESPIRATOR TO AVOID INHALING DUST. All safety equipment should be ANSI approved.
- 4. **BEFORE STARTING THE MACHINE** be certain the workpiece has been properly imbedded on the headstock and tailstock centers and that there is adequate clearance for the full rotation.
- 5. ADJUST TOOL REST to provide proper support for the turning tool you will be using. Test tool rest clearance by rotating workpiece by hand before turning lathe on.
- 6. SELECT THE TURNING SPEED which is appropriate for the type of work. Allow the lathe to gain its full speed before using.
- 7. ALWAYS INSPECT THE CONDITION of the materials you are turning. Do not turn pieces with knots, splits and other potentially dangerous conditions.
- 8. KEEP LATHE TOOLS PROPERLY SHARP-ENED and hold firmly in the proper position when turning.

- 9. NEVER OPERATE THE LATHE WITH DAMAGED OR WORN PARTS. Maintain your lathe in proper working condition.
- 10. MAKE SURE YOUR WOOD LATHE IS TURNED OFF, disconnected from its power source and all moving parts have come to a complete stop before starting any inspection, adjustment, or maintenance procedure.
- 11. DO NOT LEAVE LATHE RUNNING UNAT-TENDED for any reason.
- 12. DO NOT STOP LATHE USING YOUR HAND against the workpiece.
- **13. KEEP LOOSE CLOTHING ARTICLES** such as sleeves, belts and jewelry items away from the lathe spindle.
- **14. WHEN FACE PLATE TURNING**, use lathe chisels on the downward spinning side of the workpiece only.
- **15. REMOVE THE TOOL REST** when performing sanding or polishing operations on the rotating spindle.
- **16. ATTEMPTING TO REMOVE** too much material at once may cause work material to fly out of the lathe.

## 

Like all machines there is danger associated with the Model G1067Z. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

## 

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 1: INTRODUCTION**

### Commentary



We are proud to offer the Model G1067Z. This machine is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

We are pleased to provide this manual with the Model G1067Z. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible. If you have any comments regarding this manual, please write to us at the address below:

> Grizzly Industrial, Inc. c/o Technical Documentation P.O. Box 2069 Bellingham, WA 98227-2069

Most importantly, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

> Grizzly Industrial, Inc. 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663 Fax: (800) 438-5901 E-Mail: techsupport@grizzly.com Web Site: http://www.grizzly.com

The specifications, drawings, and photographs illustrated in this manual represent the Model G1067Z as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at <u>www.grizzly.com</u>. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual!



## Unpacking

The Model G1067Z Wood Lathe is shipped from the manufacturer in a carefully packed carton. If you discover the machine is damaged after you've signed for delivery, please call Customer Service immediately 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 your shipment, you should inventory its parts.



### 

The G1067Z represents a load of 179 pounds. Seek assistance before beginning assembly.



Some metal parts may have sharp edges on them after they are formed. Please examine the edges of all metal parts before handling them. Failure to do so could result in injury.

After all the parts have been removed from the carton, you should have:

- Main Lathe Unit
- Grizzly Paddle Switch
- Front/Rear Covers
- Index Pin
- 6" Face Plate
- 12" Tool Rest
- Tool Rest Support
- Tool Rest Extension
- Knock Out Bar
- Stand Legs (4)
- Stand Support, Long (2)
- Stand Support, Short (2)
- Upper Mount Plate (2)
- End Stand Support (2)

#### **Fasteners:**

- Carriage Bolt 5/16"- 18 x 3/4" 24 24
- Flat Washer 5/16"
- Cap Screw 5/16"- 18 x 1" 8
- Hex Nut 5/16"- 18 32
- Phillips Head Screw 10 24 x <sup>3</sup>/<sub>8</sub>" 12 8
- Lock Washer 5/16"

In the event that any non proprietary parts are missing (e.g. a nut or a washer...), we would be glad to replace them, or, for the sake of expediency, replacements can be obtained at your local hardware store.



## **Site Considerations**

## Clean Up

#### Floor Load

The Model G1067Z weighs 179 lbs. Most commercial floors are suitable for your machine. Some floors may require additional reinforcement to support the machine, the operator, and the workpiece.

#### **Working Clearances**

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your machine.



## 

Unsupervised children and visitors inside your shop could receive serious personal injury. Ensure child and visitor safety by keeping all entrances to the shop locked at all times. DO NOT allow unsupervised children or visitors in the shop at any time.





**AWARNING** Gasoline and petroleum

products have low flash points and could explode if used to clean machinery. DONOT use gasoline or petroleum products to clean the machinery.



Smoking near solvents could ignite an explosion or fire and cause serious injury. DO NOT smoke while using solvents.



## 

Lack of ventilation while using solvents could cause serious personal health risks, fire, or environmental hazards. Always work in a well ventilated area to prevent the accumulation of dangerous fumes. Supply the work area with a constant source of fresh air.

## **Circuit Requirements**

#### **Amperage Draw**

The Model G1067Z motor is wired to operate at 110V and will draw the following load:

Motor Load ...... 8 Amps

#### **Plug Type**

The Model G1067Z is supplied with a NEMA 5-15 plug. DO NOT modify the plug or power cord in any way. See **Figure 1** for a NEMA 5-15 plug and grounded outlet.



Figure 1. NEMA 5-15 plug and grounded outlet.

#### **Circuit Breaker Requirements**

We recommend that the circuit you use your machine on should be dedicated. Because the machine motors are different sizes, please use the following guidelines when choosing a circuit breaker for your machine (circuit breakers rated any higher are not adequate to protect the circuit):

Recommended Circuit Breaker ..... 15 Amp

#### **Your Circuit Capacity**

Always check to see if the wires in your circuit are capable of handling the amperage load from your machine. If you are unsure, consult a qualified electrician.

If you operate this machine on any circuit that is already close to its capacity, it might blow a fuse or trip a circuit breaker. However, if an unusual load does not exist and a power failure still occurs, contact a qualified electrician or our

## WARNING

Serious personal injury could occur if you connect your machine to the power source before you have completed the assembly process. DO NOT connect the machine to the power source until instructed to do so.

## Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing a path of least resistance to disperse electric current. This tool is equipped with a power cord that has an equipment-grounding prong. The outlet must be properly installed and grounded in accordance with all local codes and ordinances.



Electrocution or a fire can result if the machine is not grounded correctly. Make sure all electrical circuits are grounded. Do not use the machine if it is not arounded.



## 

This machine must have a ground prong in the plug to help ensure that it is grounded. DO NOT remove ground prong from plug to fit into a two-pronged outlet! If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

## NOTICE

The wire on the power cord with green or green and yellow striped insulation is the grounding conductor.

#### **110V Operation**

If you find it necessary to use an extension cord at 110V:

- Make sure the cord is rated Standard Service (grade S) or better.
- The extension cord must also contain a ground wire and plug pin.
- Use at least a 16 gauge cord if the cord is 50 feet long or less.
- DO NOT use a cord longer that 100 feet!

## 

No single list of electrical guidelines can be comprehensive for all shop environments. Operating this machinery may require additional electrical upgrades specific to your machine and shop environment. It is your responsibility to make sure your electrical systems comply with all local electrical codes and ordinances.

## **SECTION 2: ASSEMBLY**

### **Pre-assembly**

## Stand

Assembly of the G1067Z is straightforward. We have organized the assembly process into steps. Please follow them in sequence.

Tools Required: Only a few common tools are needed to assemble this machine. Specifically, a 6" adjustable wrench, 12mm open end wrench, regular and Phillips head screwdriver and an 8mm Hex wrench.





serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before start-



Locate all four stand legs and the two end 1. panels. Attach an end panel to any two of the legs using the 10-24 x 3/8" Phillips head screws provided (Figure 1). Repeat this step for the remaining end panel/legs. DO NOT final tighten the bolts at this time.



Figure 1.

2. Bolt the upper mount plate and the short stand support to each end assembly using the 5/16"-18 x 3/4" carriage bolts provided (Figure 2).



Figure 2.

**3.** Attach the long stand supports to each end assembly using the <sup>5</sup>/<sub>16</sub>"-18 x <sup>3</sup>/<sub>4</sub>" carriage bolts provided (**Figure 3**).



Figure 3.

4. With an assistant, set the lathe bed assembly on the stand, orienting the front of the headstock with the switch opening in the stand leg. Bolt the lathe bed to the stand using the eight  $\frac{5}{16}$ "-18 x 1 cap screws and hex nuts supplied and tighten down (**Figure** 4).



Figure 4.

5. At this point tighten down all the bolts on the stand. It is a good idea to do this with the lathe set in place where it will be used.



## Installing the Switch

## WARNING

Do not plug cord in until you are ready to test run the lathe. See Test Run section for instructions before initial run.

- 1. Locate the paddle switch.
- 2. Press the paddle switch into the cut-out on the face of the leg as shown in **Figure 5**.



Figure 5.

**3.** Attach the power wires to the back of the paddle switch as shown in **Figure 6**. Note— The green ground wire MUST be securely attached to the sheet metal leg.



Figure 6.

Note—The paddle switch is equipped with a removable safety key (**Figure 7**). When the lathe is not be in use, the safety key should be removed from the paddle switch and placed in a safe location. The lathe cannot be turned on when the safety key is removed from the paddle switch.



Figure 7.



Thread the handle onto the tailstock handwheel and tighten down the jam nut (**Figure 9**).

The tool rest is equipped with a cam-action clamping system to secure it to the lathe bed. To install the tool rest assembly:

**Tool Rest** 

- 1. Remove the large hex nut and lock plate from the bottom of the tool rest assembly.
- 2. Set the tool rest assembly on the lathe bed with the clamp stud between the bed slot.
- **3.** Set the tool rest lock handle so it is pointing down. Re-install the lock plate and thread the hex nut back onto the stud until it bottoms out.
- 4. Lift the lock handle approximately 90° and tighten the hex nut  $\frac{1}{2}$  to  $\frac{2}{3}$  of a turn more.
- 5. Turn the tool rest lock handle until it locks the tool rest down onto the bed. You may need to adjust the hex nut in small increments to fine tune how the tool rest assembly locks down onto the bed.



The G1067Z is supplied with a #2 Morse taper spur center for use when spindle turning. The spur center is used in conjunction with the tailstock live center. Install the spur center by inserting into the hole in the inboard spindle (**Figure 10**).



Figure 10.

To remove: insert the knockout bar provided into the outboard spindle and tap with the palm of your hand while carefully holding onto the spur center with your other hand (**Figure 11**).



Figure 11.

\_\_\_\_\_\_ **\_\_\_**\_\_\_\_

The G1067Z is supplied with a 6" face plate. The faceplate is used for bowl and plate turning. Install the face plate by threading the face plate onto the inboard spindle. Use the indexing pin to hold the spindle from rotating while tightening down or removing the face plate (**Figure 12**). DO NOT use the face plate in conjunction with the spur center. Mount your workpiece to the face plate using the mounting holes bored into the face plate.



Figure 12.

## WARNING

The contact area between the workpiece and the face plate must be flush with one another. Failure to do this could result in the face plate distorting or breaking when it is screwed to the workpiece, or during use, causing injury or death.

## 

The joints of glued-up workpieces should be high quality to prevent them from breaking under the extreme forces of lathe turning. Consult in-depth trade manuals and instructional books for correct techniques when gluing up a workpiece from multiple pieces. If a joint fails during a lathe turning operation, serious injury or death could occur.

## **SECTION 3: ADJUSTMENTS**

### Headstock

The Model G1067Z headstock can be swiveled  $180^{\circ}$  as well as positioned anywhere along the bed.

- 1. Loosen the quick release lever by pushing it down (Figure 13).
- 2. Move the headstock to the desired position and re-engage the quick release lever (Figure 14). Note—The large hex nut under the headstock will require occasional adjusting to assure proper clamping pressure to the bed. Turn the hex nut in small increments to fine tune the clamping pressure.

![](_page_15_Picture_5.jpeg)

Figure 13.

![](_page_15_Picture_7.jpeg)

Figure 14.

- 1. Loosen the quick release lever by pushing it down.
- Pull the spring loaded quick release set pin (Figure 15) and rotate the headstock clockwise 90° or 180°.

![](_page_15_Picture_11.jpeg)

Figure 15.

- **3.** Release the set pin. Make sure the set pin has engaged in its detent by trying to rotate the headstock.
- 4. Now position the head stock along the bed as desired and engage the quick release lever.

## WARNING

Never operate the lathe with the quick release lever loose. Serious personal injury may occur.

![](_page_16_Picture_4.jpeg)

Figure 16. Headstock set at 90°.

![](_page_16_Picture_6.jpeg)

### Tailstock

The tailstock is equipped with a cam-action clamping system to secure it to the lathe bed. When the lever is thrown, a locking plate lifts up and secures the tool rest to the bed. To position the tailstock along the bed:

- 1. Loosen the quick release lever and move the tailstock to the desired position (**Figure 18**).
- 2. Re-engage the quick release lever.
- **3.** If the quick release lever will not lock the tailstock down onto the bed (either too loose or too tight), loosen or tighten the hex nut (located on the underside of the tailstock) in small increments as needed to achieve the proper clamping pressure.

![](_page_16_Picture_12.jpeg)

## **Live Center**

A #2 Morse taper live center is supplied with the lathe and is preinstalled from the factory (**Figure 19**). To remove it:

- 1. Turn the handwheel counter-clockwise until the tailstock barrel bottoms out in the tailstock housing. This causes the center to be forced out of the barrel.
- 2. Reinstall by turning the handwheel clockwise until the tailstock barrel sticks out of the tailstock housing about ½". Insert the live center back into the tailstock barrel.

## 

(1) The tailstock barrel lock handle (Figure 19) must always be locked down while the lathe is in use. The workpiece can be thrown from the lathe if this step is not observed. (2) The tailstock barrel should not protrude from the tailstock housing more than 2". Serious personal injury may occur.

![](_page_17_Picture_7.jpeg)

## 

The lathe must be running to change speeds. Before turning the lathe on, read Safety Rules and Test Run in the Operations Section.

The variable speed selector has six position settings. These settings provide speeds of 500, 800, 1200, 1600, 2000 and 2700 RPM for varied applications. To change speeds:

- 1. Turn the lathe on.
- 2. Pull the speed selector lever straight back away from the machine so the detent spring compresses (Figure 20).
- 3. Slowly shift the lever to the desired speed.
- **4.** Make sure the lever is set in the detent for the desired speed. The lever should click into position.

## 

Remember to choose the correct speed for your particular turning project. As a general rule, the larger the workpiece diameter, the slower the speed. Always start on slow speed.

![](_page_17_Picture_17.jpeg)

Figure 20.

## **SECTION 4: OPERATIONS**

## Test Run

Once the assembly is complete and the adjustments are done to your satisfaction, you are ready to test the machine.

## 

Turn on the power supply at the main panel. Press the START button. Make sure that your finger is poised on the STOP button, just in case there's a problem. The Wood Lathe should run smoothly, with little or no vibration or rubbing noises. Strange or unnatural noises should be investigated and corrected before operating the machine further.

## **A**WARNING

DO NOT attempt to investigate or adjust the machine while it is running. Wait until the machine is turned off, unplugged and all working parts have come to a rest before you do anything! Serious personal injury may occur.

If noises occur that cannot be found by visual inspection, feel free to contact our service department for help.

## 

If the lathe runs smoothly, try mounting a piece of turning stock. If a problem exists, stop the machine and review all the adjustments. Call for assistance, if needed.

Adjust the tool rest as close to the workpiece as possible without actually coming in contact with the workpiece. Test by hand turning the workpiece before turning lathe on. Ensure that the lathe chisel is fully supported by the tool rest. Support the lathe chisel on the tool rest with one hand, while controlling the chisel with the other hand (**Figure 21**). For outboard turning, it may be desirable to use a free standing tool rest.

![](_page_18_Picture_12.jpeg)

Figure 21.

![](_page_18_Figure_14.jpeg)

G1067Z Wood Lathe

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## **Spindle Turning**

Before a workpiece is mounted into the lathe, the points of the installed spur center and the live center must align perfectly with one another (**Figure 22**). View the alignment from above the lathe and from the side.

![](_page_19_Figure_2.jpeg)

![](_page_19_Figure_3.jpeg)

To mount a workpiece between centers:

- 1. Locate the center point on both ends of the workpiece by carefully drawing diagonal lines from corner to corner. The point of intersection is the center of the work. Find the center of round wood stock by using a center finder instrument.
- 2. When turning stock with a diameter greater than 2", remove the corner length edges with a hand plane or similar operation. DO NOT attempt to "round" square stock in the lathe. Serious personal injury many occur.
- **3.** Hold the spindle vertically and support it on a solid surface. Line up the spur center with the center of the workpiece. Drive the spur center into the stock about <sup>1</sup>/<sub>4</sub>" using a dead blow hammer. Be careful not to split the workpiece. See **Figure 23.** Wood with splits along the grain may fly off during the operation. Note—*With dense wood, drill a hole at the center and score lines with a saw blade for the spur center.*

![](_page_19_Figure_8.jpeg)

Figure 23.

- **4.** Once the spur center is firmly attached to the workpiece, insert the spur center (with the attached workpiece) into the headstock spindle.
- 5. While supporting the workpiece, slide the tailstock close to the end of the workpiece and lock it into place.

## WARNING

Make sure the live center in the tailstock lines up with the spur center in the headstock before turning anything between centers. Failure to observe this step could result in the workpiece being thrown from the lathe. Serious personal injury may occur.

6. Line up the live center with the workpiece center. Turn the handwheel to press the point of the live center into the workpiece. Note—*With dense wood, drill a hole at the center and score lines with a saw blade for the live center.* 

## 

Do not press too firmly or the bearings will bind and overheat. Likewise, do not adjust too loosely or the workpiece will spin off the lathe. Use good judgement. Serious personal injury could result if care is not taken.

7. Lock the tailstock in place.

![](_page_19_Picture_18.jpeg)

## **Outboard Turning**

Outboard turning is usually done when stock diameter is greater than 12". For the size of this particular lathe and its minimum turning speed, we recommend a maximum diameter of 17" and a maximum thickness of 2".

**Figure 24** depicts the lathe setup at 90° for turning a bowl using the tool rest extension supplied.

**Figure 25** depicts the lathe setup at 180° for turning a bowl using a free standing tool rest (not supplied).

![](_page_20_Picture_5.jpeg)

Figure 24. Headstock set at 90°.

![](_page_20_Picture_7.jpeg)

Figure 25. Headstock set at 180°.

The headstock spindle indexes every 15° by inserting the indexing pin into one of the holes in the headstock. Indexing is desirable when locking the workpiece in position such as when routing flutes. The spindle is drilled every 30° and the headstock housing has two holes that are drilled 15° apart. To index the spindle:

- **1.** Insert the pin through the hole in the housing.
- 2. Rotate the spindle by hand until the pin drops into a hole in the spindle (Figure 26).

## 

Never start the lathe with the indexing pin inserted in the indexing hole. Serious personal injury may occur.

![](_page_20_Picture_14.jpeg)

Figure 26. Spindle indexing.

G1067Z Wood Lathe

## **SECTION 5: MAINTENANCE**

## General

## 

Before performing any type of inspection or maintenance work on this lathe, be sure that the power cord is unplugged and all moving parts have come to a complete stop. Serious personal injury may occur.

Make a habit of inspecting your lathe each time you use it. Check for the following conditions and repair or replace when necessary.

- **1.** Loose mounting bolts.
- 2. Worn switch.
- **3.** Worn or damaged cords and plugs.
- **4.** Any other condition that could hamper the safe operation of this machine.

![](_page_21_Picture_9.jpeg)

The bed and other non-painted surfaces on the Model G1067Z should be protected against rust and pitting. Wiping the lathe clean after every use ensures that moisture from wood dust isn't allowed to trap moisture against bare metal surfaces.

## Lubrication

The G1067Z Lathe is equipped with a split pulley system which allows the speed of the lathe to be changed while its running. To assure the smooth operation of this pulley system, we recommend the main spindle and motor spindle be greased occasionally. To do this, remove the pulley cover, vacuum out any saw dust and apply grease to the spots indicated in **Figure 27.** Disposable acid brushes work best to get into these hard to reach places.

![](_page_21_Picture_13.jpeg)

Figure 27.

Shielded and pre-lubricated ball bearings require no lubrication for the life of the bearings. In a continuous-use environment, expect the bearings to last for several years. With intermittent use, bearings can be expected to last much longer. All bearings are common sizes and can be easily obtained.

![](_page_21_Picture_16.jpeg)

## **SECTION 6: CLOSURE**

The following pages contain general machine data, parts diagram, parts list and Warranty/Return information for your Model G1067Z Lathe.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call the appropriate regional Service Department. Our trained service technicians will be glad to help you.

If you have comments dealing specifically with this manual, please write to our Bellingham, Washington location using the address in the Introduction. The specifications, drawings, and photographs illustrated in this manual represent the Model G1067Z as supplied when the manual was prepared. However, due to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, add the new information to this manual and keep it for reference.

We have included some important safety measures that are essential to this machine's operation. While most safety measures are generally universal, Grizzly reminds you that each workshop is different and safety rules should be considered *as they apply to your specific situation*. We recommend you keep a copy of our current catalog for complete information regarding Grizzly's warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the appropriate regional Service Department listed in the introduction.

Additional information sources are necessary to realize the full potential of this machine. Trade journals, woodworking magazines, and your local library are good places to start.

## 

Like all power tools, there is danger associated with the Model G1067Z Lathe. Use the tool with respect and caution to lessen the possibility of mechanical damage or operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

## 

The Model G1067Z was specifically designed for turning operations. Do not modify and/or use this Lathe for any other purpose. If you are confused about any aspect of this machine, DO NOT use it until you have answered all your questions. Serious personal injury may occur.

### NOTICE

Modifications or improper use of this tool will void the warranty.

![](_page_23_Picture_0.jpeg)

## Machine Data Sheet

Customer Service #: (570) 326-3806 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

#### Model G1067Z Wood Lathe

Overall Dimensions:
Including Stand 453/4" H x 20" W x 583/4"
Swing Over Bed14
Swing Over Gap1
Distance Between Centers4
Shipping Weight 190 lb
Weight in Place 179 lb
Construction:
Bed Precision Ground Cast Irc
Headstock Cast Irc
StandPre-Formed Sheet Ste
SpindleShielded & Lubricated-For-Life Ball Bearing
Specifications:
Spindle Size
Bore Through Spindle
Tailstock TaperMT #
Spindle Taper MT #2 Spur Center
Number / Range of Speeds
Motor:
TypeTEFC Capacitor Start Induction
Horsepower <sup>1</sup> / <sub>2</sub> H
Phase / CycleSingle Phase / 60 H
Voltage
Amps
RPM
BearingsBearings Bearing
SwitchSafety Key Toggle Switch
Standard Features:
Swivel Hea
Articulated Tool Rest Suppo

Specifications, while deemed accurate, are not guaranteed. 12/2003

![](_page_24_Figure_0.jpeg)

![](_page_25_Figure_0.jpeg)

REF	PART #	DESCRIPTION	REF	PART #	DESCRIPTION
1	P1067Z001	BED	52	P1495051	ECCENTRIC ROD W/052
2	P1067Z002	HEADSTOCK	53	PB31	HEX BOLT 1/4"-20 x 1"
3	P6205	BEARING 6205	54	P1067Z054	TOOL REST W/070
4	P1067Z004	INDEXING BLOCK	55	P1495031	LOCKING LEVER
5	P1067Z005	MAIN SPINDLE	58	PN02	HEX NUT 5/16"-18
6	PFH08	FLAT HD SCR 10-24 X 1/2"	59	PW07	FLAT WASHER 5/16"
7	PK88M	KEY 4 X 4 X 74	60	PCB01	CARRIAGE BOLT 5/16"-18 x 5/8"
8	P1067Z008	BRACKET	61	P1067Z061	END PANEL
9	P6006	BEARING 6006	62	P1067Z062	CROSS BRACE, SHORT
11	P1067Z011	LOCKING STUD	63	PS06	PHLP HD SCR 10-24 x 3/8"
12	P1067Z012	SHIFTING ROD	64	P1067Z064	MOTOR 1/2 HP
13	P1067Z013	PINION SHAFT	64-1	P1067Z064-1	FAN COVER
14	P1067Z014	INDEXING PLATE	64-2	P1067Z064-2	FAN
15	P1067Z015	DETENT PIN ASSEMBLY	64-3	P1067Z064-3	WIRING COVER
16	P1067Z016	COLLAR	64-4	PC200	S CAPACITOR 200M 125V
17	P1067Z017	SPEED CHANGE LEVER	64-5	P1067Z064-5	CAPACITOR COVER
18	PN05	HEX NUT 1/4"-20	65	P1067Z065	TOP BRACE
19	P1067Z019	INDEXING PIN	66	PLABEL-7	GRIZZLY LOGO LABEL
20	P1067Z020	SPRING	67	PK89M	KEY 4 X 4 X 84
21	P1067Z021	PULLEY COVER	69	P1067Z069	SPEED CHART
22	P1495022	FACE PLATE	70	P1067Z070	SPRING
23	P1067Z023	MT#2 SPUR CENTER	71	P1067Z071	SPRING RETAINER
24	P1067Z024	TAILSTOCK HOUSING	72	PR06M	EXT RETAINING RING 16MM
25	P1495025A	TAILSTOCK BARREL	73	P1067Z073	CAUTION LABEL
26	P1495026	TAILSTOCK LEAD SCREW	74	PSS11	SET SCREW 1/4"-20 x 1/4"
27	PSS03	SET SCREW 1/4"-20 x 3/8"	75	PS06	PHLP HD SCR 10-24 x 3/8"
28	P1495028	HAND WHEEL	76	PWRCRD110L	POWER CORD
29	PSS17	SET SCREW <sup>5</sup> /16"-18 x <sup>5</sup> /16"	78	P1067Z078	SAFETY LABEL
30	P1495030	HANDLE	79	P1067Z079	STOP BAR
32	P1067Z032	CAM SLIDE BAR	80	PVM22	V-BELT M-22
33	P1067Z033	SPECIAL BOLT M20-2.5 X 22	81	P1067Z081	MACHINE ID LABEL
34	P1495034	LOCK BLOCK	82	PSS02	SET SCREW 5/16"-18 x 3/8"
36	P1495036	LOCK HANDLE	83	P1495083	SPECIAL BOLT M20-2.5 X 22
37	P1067Z037	MT#2 LIVE CENTER	84	P1067Z084	HANDLE
38	P1067Z038	LOCKING LEVER	85	P1067Z085	TOOL REST EXTENSION
39	PR58M	EXT RETAINING RING 24MM	86	PB03	HEX BOLT 5/16"-18 x 1"
40	P1067Z040	ECCENTRIC SHAFT	87	PLW01	LOCK WASHER 5/16"
41	PR11M	EXT RETAINING RING 25MM	98	P1067Z098	KNOCK OUT BAR
42	PSB06	CAP SCREW 1/4"-20 x 1"	99	P1067Z099	BOLT BAG
43	PEC04M	E-CLIP 13MM	100	PR15M	EXT RETAINING RING 30M
46A	P1067Z046A	LEG, LEFT FRONT V2.01.02	101	P1067Z101	MOTOR PULLEY SET
47	P1067Z047	LEG, RIGHT FRONT	102	PSB03	CAP SCREW 5/16"-18 x 1"
48	P1067Z048	LEG, RIGHT REAR	103	PLN12	LOCK NUT <sup>3</sup> / <sub>4</sub> "-10
49	P1067Z047	LEG, LEFT REAR	104	PLW01	LOCK WASHER 5/16"
50	P1495050	TOOL REST BODY	105A	P1067Z105A	SPINDLE PULLEY SET
51	P1067Z051	CROSS BRACE, LONG	106	PSW07	GRIZZLY PADDLE SWITCH

### 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.

### WARRANTY CARD

Nan	ne				
Stre	et				
Citv				State	Zip
Dho	no Number	E Mail			<b>_</b> _;P
FIIU				FAA	
MO	DEL #	Serial #		Order #	
The f cours	ollowing information is given on a se, all information is strictly confide How did you learn about us?	voluntary basis. It will be used for n ential.	narketing	purposes to help us develop better	products and services. Of
	Advertisement	Friend	9.	How many of your woodworking mad	chines are Grizzly?
	World Wide Web				
			10.	Which benchtop tools do you own?	Check all that apply.
2.	Other Which of the following magazines d	lo you subscribe to.		1" x 42" Belt Sander 5" - 8" Drill Press 8" Table Saw	6" - 8" Grinder Mini Lathe 10" - 12" Thickness Planer
	American Woodworker	Practical Homeowner		8" - 10" Bandsaw	Scroll Saw
	Cabinetmaker	Shop Notes		Disc/Belt Sander	Spindle/Belt Sander
	Family Handyman	Today's Homeowner		Mini Jointer	
	Fine Homebuilding	Wooden Beet		Othor	
	Home Handyman	Woodshop News			
	Journal of Light Construction	Woodsmith	11.	How many of the machines checked	above are Grizzly?
	Old House Journal	Woodwork		-	-
	Popular Mechanics	Woodworker	12.	Which portable/hand held power tool	Is do you own? Check all that apply.
	Popular Science	Woodworker's Journal Workbench		Belt Sander	Orbital Sander
				Biscuit Joiner	Palm Sander
	Other			Circular Saw	Portable Planer
~				Detail Sander	Saber Saw
3.	which of the following woodworking	premodeling snows do you watch?		Drill/Driver	Reciprocating Saw
				Miter Saw	Router
	Backyard America	The New Yankee Workshop		Other	
	Home Time	This Old House			
	Ihe American Woodworker	Woodwright's Shop	13.	What machines/supplies would you I	ike Grizzly Industrial to carry?
	Other				
4.	What is your annual household inco	pme?			
	\$20.000-\$29.999	\$60.000-\$69.999	14	What now accessories would you like	o Grizzly Industrial to carry?
	\$30,000-\$39,999	\$70,000-\$79,999	14.	What new accessories would you like	e chizzly industrial to carry:
	\$40,000-\$49,999	\$80,000-\$89,999			
	\$50,000-\$59,999	\$90,000 +			
5.	What is your age group?		15	What other companies do you purch	ase your tools and supplies from?
	20-29	50-59			
		60-69			
	40-49	70 +			
6.	How long have you been a woodwo	orker?	16.	Do you think your purchase represer	nts good value?
	0 - 2 Years	8 - 20 Years		Yee	No
	2 - 8 Years	20+ Years		fes	INO
7.	How would you rank your woodwor	king skills?	17.	Would you recommend Grizzly Indus	strial to a friend?
	Simple	Advanced		Yes	No
	Intermediate	Master Craftsman	10	Would you allow us to use your pame	as a reference for Grizzly customers
			10.	in your area? Note: We never use r	ames more than three times.
8.	What stationary woodworking tools	do you own? Check all that apply.			
	Air Compressor	Panel Saw		Yes	No
	Bandsaw	Planer	10	Commente	
	Drill Press	Power Feeder	19.		
	Drum Sander	Radial Arm Saw			
	Dust Collector	Shaper			
	Horizontal Boring Machine	Spindle Sander Tablo Saw			
	Lathe	Vacuum Veneer Press			
	Mortiser	Wide Belt Sander			

FOLD ALONG DOTTED LINE

![](_page_29_Picture_1.jpeg)

Stamp Here

![](_page_29_Picture_3.jpeg)

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![](_page_31_Picture_7.jpeg)