



## FLEX SHAFT GRINDER

MODEL G9928

## INSTRUCTION MANUAL



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1821 VALENCIA ST., BELLINGHAM, WA 98227

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PRINTED IN CHINA



# **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.**

# SAFETY

## WARNING

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

## WARNING

### Safety Instructions For Power Tools

1. **KEEP ALL SAFETY DEVICES IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before operation.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DO NOT 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 a safe distance from work area.
6. **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
7. **DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE THE RIGHT TOOL.** Do not force tool or attachment to do a job for which it was not designed.
9. **DO NOT USE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.**

# **WARNING**

## **Safety Instructions For Power Tools**

- 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. WEAR APPROVED HEARING PROTECTION.**
- 13. SECURE WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
- 14. DO NOT OVERREACH.** Keep proper footing and balance at all times.
- 15. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
- 17. DISCONNECT TOOLS** before servicing and changing accessories.
- 18. USE THE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 19. 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.
- 20. NEVER ALLOW UNTRAINED USERS TO RUN THIS TOOL WHILE UNSUPERVISED.**
- 21. IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING THE TOOL.**
- 22. DO NOT BEND SHAFT MORE THAN 90 DEGREES.** Make sure the Flexible Shaft (P9928021) is not bent more than a 90 degree angle. If the Flexible Shaft is kinked or crimped, it could cause inefficient grinder operation and create a safety hazard. Note: Performance of the Flexible Shaft Grinder may vary depending on local line voltage or use of an extension cord.

# INTRODUCTION

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## Commentary

We are proud to offer the Grizzly Model G9928 Flex Shaft Grinder. This model is part of a growing Grizzly family of fine power tools. 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.

The Model G9928 features a 42" long flex shaft to maneuver around your workpiece, a foot pedal to control the speed from 0 to 15,000 R.P.M., a motor hanger, and a  $\frac{5}{32}$ " keyed chuck handpiece. To use chisels, please order H0757 4-Pc. Carving Chisels from the current catalog.

We are pleased to provide this manual with the Model G9928. It was written to encourage safety considerations and guide you through general operating procedures and maintenance. This manual represents our effort to produce the best documentation possible.

The specifications, details, and photographs in this manual represent the Model G9928 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. If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.  
% Technical Documentation  
P.O. Box 2069  
Bellingham, WA 98227-2069

Most importantly, we stand behind our tools. 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

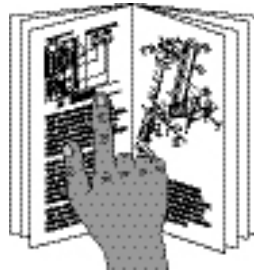
Phone: (570) 546-9663

Fax: (800) 438-5901

E-Mail: [techsupport@grizzly.com](mailto:techsupport@grizzly.com)

Web Site: <http://www.grizzly.com>

## WARNING



**Read the manual before assembly and operation. Become familiar with this tool, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or fol-**

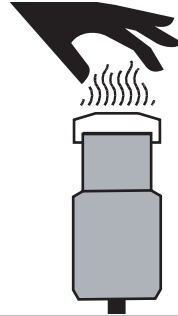
# OPERATION

## ! WARNING



Operating this tool can propel objects into the air, causing immediate eye damage. To protect yourself, always wear American National Standards Institute (ANSI) approved safety glasses or goggles when operating this equipment.

## ! WARNING



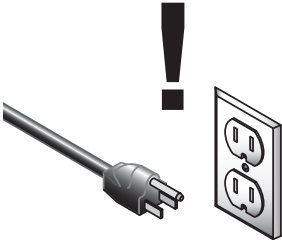
Under normal working conditions and use, it is normal for the Motor Housing to become hot. However, the hot surface may cause personal injury if touched or present a possible danger of an extreme fire hazard if near flammable material. If the Flexible Shaft Grinder is used for a prolonged period of time and the motor housing becomes **EXTREMELY HOT**, stop using the machine and let it cool down.

## OPERATION

1. Before using the Flexible Shaft Grinder, determine a location in the work area to mount the Holder and the Hanger. Drive (2) wood screws through (2) Electrical Rings and through the Hanger to the mounting location selected. Attach the Hanger to the Motor Housing with (2) screws.
2. The Flex Shaft and Flex Shaft Housing need to be lubricated with a light lithium lubricant or machine oil. Use only as small amount. Too much lubricant can become messy and possibly get on your workpiece. **Do not use automotive grease as it is too viscous.**
3. A setscrew holds the Flex Shaft to the Motor Shaft. When the Flex Shaft is secure to the Motor Shaft, thread the end of the Flex Shaft Housing onto the base of the Motor Housing. Be sure that the Flexible Shaft assembly is not bent more than 90 degrees or kinked.
4. The Grinder Head fits onto the end of the Flex Shaft. It is secure when you hear a snap. To remove the Grinder Head from the Flex Shaft, firmly grasp the Grinder Head and Flex Shaft with two hands and pull apart.
5. Loosen the Drill Chuck with the Chuck Key. Insert the desired bit and tighten the Drill Chuck with the Chuck Key.
6. Attach the Foot Control as follows. Insert the Plug into the Female Plug. Insert the Power Plug into the electrical outlet. The depth of the Foot Control can be set by using the setscrew on the Foot Control, this will allow the operator to adjust for desired maximum speed. Tightening and lowering the screw will allow for greater speeds. Loosening and raising the screw will limit the speed allowed by the Foot Control.
7. Make sure all safety instructions have been followed before turning the machine "ON".
8. Once the tool is on, select the desired speed by using the Foot Control.

# MAINTENANCE

## ⚠ WARNING



**Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.**

### CARBON BRUSH REPLACEMENT

Normal Carbon Brush life is 500–2000 hours, depending on use. Always replace both brushes when it is time for replacement.

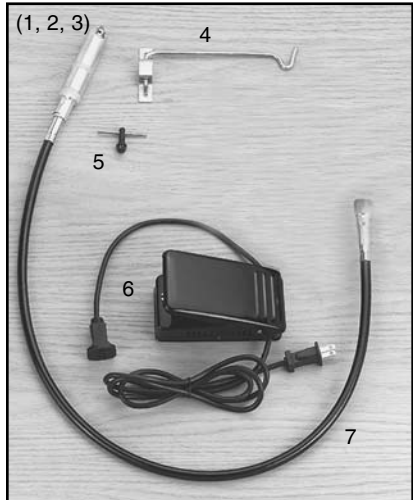
1. Use a small screwdriver and remove the Carbon Brushes from the sides of the Motor Housing. Be careful when removing the brushes, as the brushes are spring-loaded and may spring out. If the brush does not spring out, gently remove it using the tip of the screwdriver. Examine the brush surface for scratches or breakage. If the brush is broken, replace immediately with a replacement brush from Grizzly Industrial, Inc.
2. If the brush is not broken and is dirty, remove the dirt using a pencil eraser. Gently rub with the eraser until all of the dirt has been removed. Remove all eraser dust so it will not interfere with the machine.
3. Reinstall the brushes and gently tighten with the screwdriver.

### LUBRICATING FLEX SHAFT

The Flex Shaft and Flex Shaft Housing should be lubricated after every 8 hours of use. A small amount of light lithium lubricant or machine oil applied to the length of the Flex Shaft is all that is needed. Too much lubricant can become messy and possibly get on your workpiece. **Do not use automotive grease as it is too viscous.**

### REPLACEMENT ACCESSORIES

Should you need to order replacement parts for your Model G9928, please refer to the following parts diagram and list.



Ref Part # Description

Ref	Part #	Description
01	P9928022	CHUCK HOUSING
02	P9928023	BEARING 608Z
03	P9928024	CHUCK
04	P9928001	HANGER
05	P9928025	CHUCK KEY
06	P9928027	FOOT CONTROL
07	P9928021	FLEX SHAFT
08	P9928008	CARBON BRUSH (NOT SHOWN)

# WARRANTY AND RETURNS

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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 Authorization 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.

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>

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



# WARRANTY CARD

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone Number \_\_\_\_\_ E-Mail \_\_\_\_\_ FAX \_\_\_\_\_

Model # \_\_\_\_\_ Serial # \_\_\_\_\_

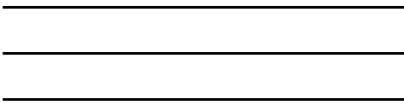
The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

- How did you learn about us?  
 Advertisement       Friend  
 Catalog               Card Deck  
 World Wide Web  
 Other \_\_\_\_\_
- What is your annual household income?  
 \$20,000-\$29,999       \$60,000-\$69,999  
 \$30,000-\$39,999       \$70,000-\$79,999  
 \$40,000-\$49,999       \$80,000-\$89,999  
 \$50,000-\$59,999       \$90,000 +
- What is your age group?  
 20-29                   50-59  
 30-39                   60-69  
 40-49                   70 +
- How long have you been a woodworker?  
 0 - 2 Years             8 - 20 Years  
 2 - 8 Years             20+ Years
- How would you rank your woodworking skills?  
 Simple                   Advanced  
 Intermediate           Master Craftsman
- What stationary woodworking tools do you own?  
Check all that apply.  
 Air Compressor       Panel Saw  
 Band Saw               Planer  
 Drill Press             Power Feeder  
 Drum Sander          Radial Arm Saw  
 Dust Collector        Shaper  
 Spindle Sander       Jointer  
 Table Saw              Lathe  
 Mortiser               Wide Belt Sander  
 Horiz.Boring Machine  
 Vacuum Veneer Press  
 Other \_\_\_\_\_
- How many of your woodworking machines are Grizzly? \_\_\_\_\_
- Which benchtop tools do you own? Check all that apply.  
 1"x42" Belt Sander     6" - 8" Grinder  
 5" - 8" Drill Press     Mini Lathe  
 8" Table Saw          8" - 10" Bandsaw  
 Scroll Saw              Disc/Belt Sander  
 Spindle/Belt Sander  Mini Jointer  
 10"-12"Thickness Planer  
 Other \_\_\_\_\_
- How many of the machines checked above are Grizzly? \_\_\_\_\_
- Which portable/hand held power tools do you own? Check all that apply.  
 Belt Sander             Orbital Sander  
 Biscuit Joiner         Palm Sander  
 Circular Saw            Portable Planer  
 Detail Sander          Saber Saw  
 Drill/Driver            Reciprocating Saw  
 Miter Saw              Router  
 Other \_\_\_\_\_
- What machines/supplies would you like Grizzly Industrial to carry?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- What new accessories would you like Grizzly Industrial to carry?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- What other companies do you purchase your tools and supplies from?  
\_\_\_\_\_  
\_\_\_\_\_
- Do you think your purchase represents good value?  
 Yes                     No
- Would you recommend Grizzly to a friend?  
 Yes                     No
- Would you allow us to use your name as a reference for Grizzly customers in your area? **Note: We never use names more than three times.**  
 Yes                     No
- Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Send a Grizzly Catalog to a friend:

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Street_____
City_____State_____Zip_____

FOLD ALONG DOTTED LINE



Place  
Stamp  
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**P.O. BOX 2069**  
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