

Grizzly ***Industrial, Inc.***®

MODEL G0702 **12" DISC SANDER w/BRAKE** **OWNER'S MANUAL**

(For models manufactured since 1/12)



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**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.**
(FOR MODELS MANUFACTURED SINCE 12/11) #CR12124 PRINTED IN TAIWAN.



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

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes we still make an occasional mistake.

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

Before calling, find the manufacture date of your machine by looking at the date stamped into the machine ID label (see below). This will help us determine if the manual version you received matches the manufacture date of your machine.

		MODEL GXXXX MACHINE NAME	
SPECIFICATIONS		⚠ WARNING!	
Motor:		Manufacture Date of Your Machine When using this machine: 1. Wear eye protection. 2. Wear ear protection. 3. Wear a respirator. 4. Make sure the motor has stopped and disconnect power before adjustments, maintenance, or service. 5. DO NOT expose to rain or dampness. 6. DO NOT modify this machine in any way. 7. DO NOT remove safety guards. 8. Never leave machine running unattended. 9. DO NOT operate under the influence of drugs or alcohol. 10. Maintain machine carefully to prevent accidents.	
Specification:			
Specification:			
Specification:			
Weight:			
	Date		
	Serial Number		
Manufactured for Grizzly in Taiwan			

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

Contact Info

We stand behind our machines. If you have any questions or need help, use the information below to contact us. Before contacting, please get the serial number and manufacture date of your machine. This will help us help you faster.

Grizzly Technical Support
1203 Lycoming Mall Circle
Muncy, PA 17756
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

Machine Description

The Model G0702 Disc Sander features a 1 HP, 120V, 1720 RPM motor equipped with a motor brake and a 12" diameter sanding disc. The precision ground cast iron table is cut with two miter slots that allow for an included miter gauge to move a workpiece in either an X or Y direction against the sanding disc. An adjustable miter gauge provides a means for angle sanding. A built in 2½" OD dust port allows for dust collection. A selection of adhesive sanding discs are available through the Grizzly catalog.





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL G0702 12" DISC SANDER WITH BRAKE

Product Dimensions:

Weight..... 84 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 16-1/2 x 27 x 17 in.
Footprint (Length x Width)..... 16-1/2 x 16-1/2 in.

Shipping Dimensions:

Type..... Cardboard Box
Content..... Machine
Weight..... 92 lbs.
Length x Width x Height..... 19 x 26 x 17 in.

Electrical:

Power Requirement..... 120V, Single-Phase, 60 Hz
Prewired Voltage..... 120V
Full-Load Current Rating..... 9.5A
Minimum Circuit Size..... 15A
Connection Type..... Cord & Plug
Power Cord Included..... Yes
Power Cord Length..... 5 ft.
Power Cord Gauge..... 16 AWG
Plug Included..... Yes
Included Plug Type..... 5-15
Switch Type..... Paddle Safety Switch w/Removable Key

Motors:

Main

Horsepower..... 1 HP
Phase..... Single-Phase
Amps..... 9.5A
Speed..... 1720 RPM
Type..... TEFC Capacitor-Start Induction w/Brake
Power Transfer..... Direct Drive
Bearings..... Sealed & Permanently Lubricated

Main Specifications:

Disc Sander Info

Disc Diameter..... 12 in.
Disc Speed..... 1720 RPM
Disc Sandpaper Backing Type..... PSA
Table Tilt..... +15, -45 deg.
Table-to-Floor Height..... 9-1/2 in.

Construction Materials

Base..... Steel
Table..... Cast Iron
Disc..... Cast Iron
Miter Gauge..... Plastic/Aluminum Bar



Identification

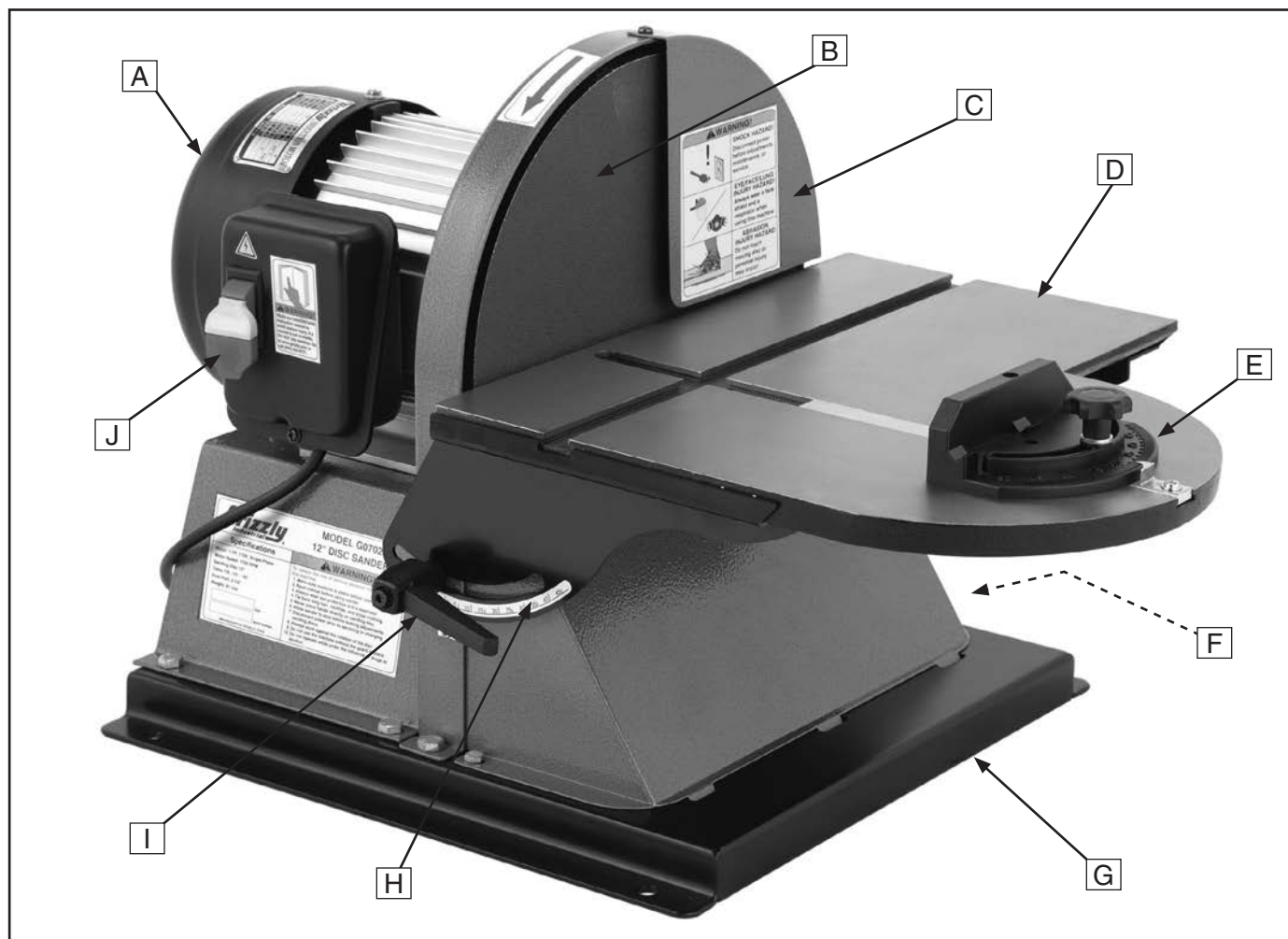


Figure 1. Model G0702 Disc Sander.

- | | |
|---|------------------------------------|
| A. Motor | F. Dust Port (Opening Not Visible) |
| B. Cast Iron Disc (Sanding Disc Attached) | G. Adapter Base |
| C. Disc Guard | H. Tilt Scale |
| D. Extended Work Table | I. Universal Lock Lever |
| E. Miter Gauge | J. Power Switch |

! CAUTION

For Your Own Safety Read Instruction Manual Before Operating the Sander

- a) Wear eye and ear protection.
- b) Support workpiece on worktable.
- c) Maintain the smallest gap possible between the worktable and sanding disc.
- d) Avoid kickback by sanding in accordance with directional arrows.



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.



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



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



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

NOTICE

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

Safety Instructions for Machinery



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 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 avoid accidental slips, which could cause loss of workpiece control.

HAZARDOUS DUST. Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and 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!

INTENDED USAGE. Only use machine for its intended purpose and never make modifications not approved by Grizzly. Modifying machine or using it differently than intended may result in malfunction or mechanical failure that can lead to serious 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.

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.

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

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.



WARNING

Additional Safety for Disc Sanders

AVOID FINGER INJURIES. Never purposely touch the moving sanding disc. Take care to keep fingers away from sanding disc during operations. If the workpiece is small or difficult to hold, use a workpiece holding fixture. Sanding abrasives can quickly remove large amounts of skin!

AVOID WORKPIECE GRAB. Support the workpiece on the work table against the rotation direction of the sanding disc. Otherwise, the sanding disc could grab the workpiece and pull your hands into the moving disc.

AVOID KICKBACK. Avoid kickback by sanding in accordance with directional arrows and keeping the guard in place. Always sand on the downward side of the disc—pay close attention to the direction of disc rotation to avoid placing the workpiece against the upward side of the disc. Avoid sanding with excessive force. Always keep the sanding disc guard installed.

ONLY SAND SAFE WORKPIECES. If there is any doubt about stability or integrity of the material to be sanded, do not sand it. Never attempt to sand any sort of cable, chain, or wire. If you do, entanglement can occur and cause serious injury.

DISCONNECT POWER WHEN SERVICING. Disconnect the machine from power and allow the disc to come to a complete stop before service, maintenance, or adjustments. Avoid pulling cord-connected machinery by the cord—instead, grasp the plug when disconnecting it from power.

POSITION TABLE CORRECTLY. Make sure the gap between the table and sanding disc does not exceed $\frac{3}{16}$ "—too large of a gap increases the risk of workpiece grab and pinch injuries, while too small of a gap increases the risk of sandpaper damage and restricts the removal of dust during operation.

ONLY USE SAFE SANDPAPER DISCS. Never use sanding discs that are damaged or torn; or if the adhesive is not sticking firmly. If sandpaper rips or comes off of the disc during operation, the workpiece or your hands could become entangled with the moving disc.

AVOID ENTANGLEMENT. Tie back long hair and remove any loose-fitting clothing or jewelry that could be caught up in the sanding disc or other moving machine parts.

BE AWARE OF DUST ALLERGIES. Be aware that certain woods may cause an allergic reaction in people and animals, especially when fine dust is created by sanding. Make sure you know what type of wood dust you will be exposed to in case there is a possibility of an allergic reaction.

PROTECT YOURSELF FROM FINE DUST. This machine puts fine dust particles into the air during operation. Wood dust is harmful to respiratory systems and long term exposure may lead to severe health problems. Reduce your risk by always using an adequate dust collection system and wearing a NIOSH-approved respirator during machine operation and for a short time after.

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

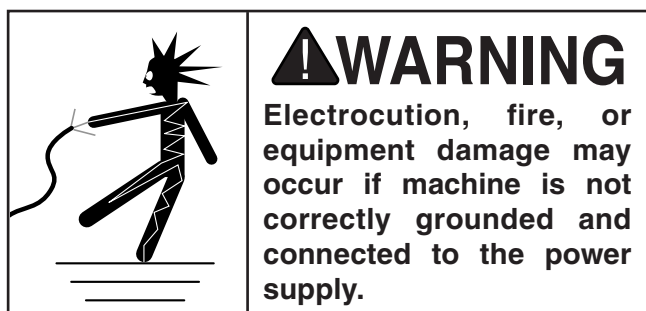
No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or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



SECTION 2: POWER SUPPLY

Availability

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



Full-Load Current Rating

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

Full-Load Current Rating at 120V 9.5 Amps

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

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

Circuit Information

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

CAUTION

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

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

Circuit Requirements for 120V

This machine is prewired to operate on a 110V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 120V
Cycle 60 Hz
Phase Single-Phase
Power Supply Circuit 15 Amps
Plug/Receptacle NEMA 5-15



Grounding Requirements

This machine **MUST** be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

For 120V operation: This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug (see following figure). The plug must only be inserted into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances.

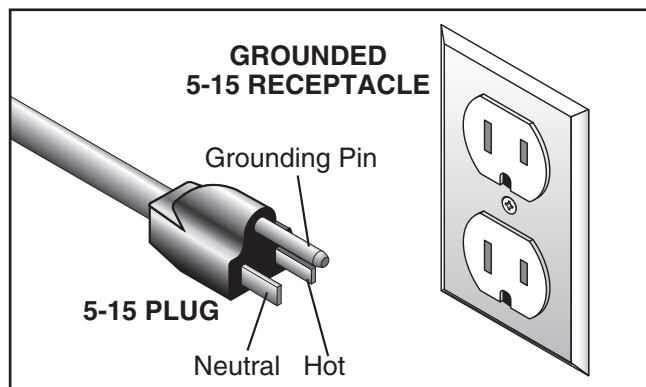
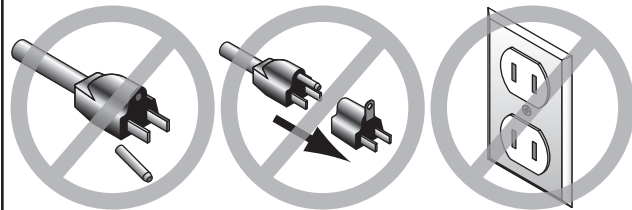


Figure 2. Typical 5-15 plug and receptacle.

⚠ CAUTION



SHOCK HAZARD!

Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.

Extension Cords

We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

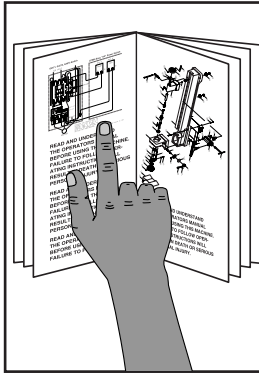
Extension cords cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must contain a ground wire, match the required plug and receptacle, and meet the following requirements:

Minimum Gauge Size 14 AWG
Maximum Length (Shorter is Better)..... 50 ft.

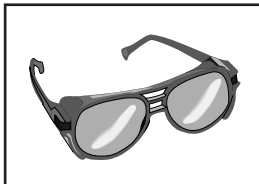


SECTION 3: SETUP



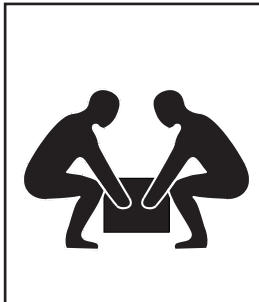
!WARNING

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



!WARNING

Wear safety glasses during the entire setup process!



!WARNING

This machine and its components are very heavy. Get lifting help or use power lifting equipment such as a forklift to move heavy items.

Unpacking

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

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

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

Inventory

The following is a description of the main components shipped with your machine. Lay the components out to inventory them.

Note: *If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for shipping purposes.*

Description	Qty
• Sander Assembly	1
• Sanding Disc (Installed)	1
• Miter Gauge.....	1
• Handle	1
• Cap Screw M6-1 x 20	2

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.

Cleanup

The unpainted surfaces of your machine are coated with a heavy-duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

Be patient and do a thorough job cleaning your machine. The time you spend doing this now will give you a better appreciation for the proper care of your machine's unpainted surfaces.

There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturer's instructions with any cleaning product you use and make sure you work in a well-ventilated area to minimize exposure to toxic fumes.

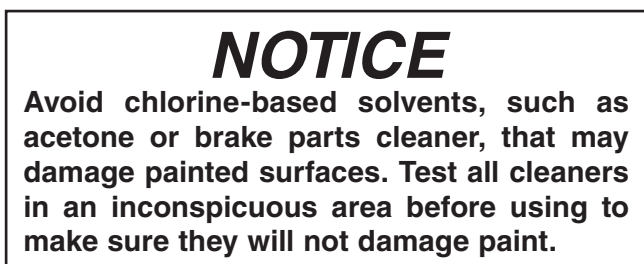
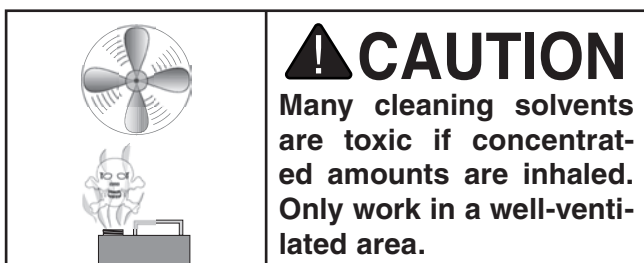
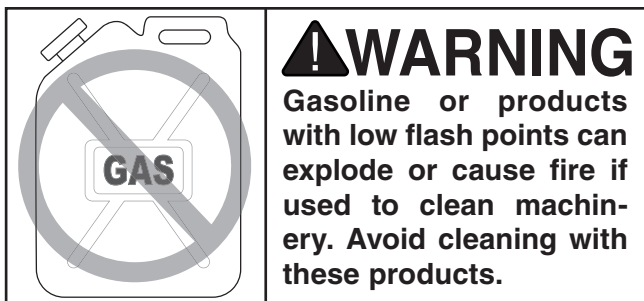


Before cleaning, gather the following:

- Disposable Rags
- Cleaner/degreaser (WD-40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

Basic steps for removing rust preventative:

1. Put on safety glasses.
2. Coat the rust preventative with a liberal amount of cleaner/degreaser, then let it soak for 5–10 minutes.
3. Wipe off the surfaces. If your cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with the rag.
4. Repeat **Steps 2–3** as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.



Site Considerations

Workbench Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some workbenches may require additional reinforcement to support both the machine and materials.

Placement Location

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 new machine. See **Figure 3** for the minimum working clearances.

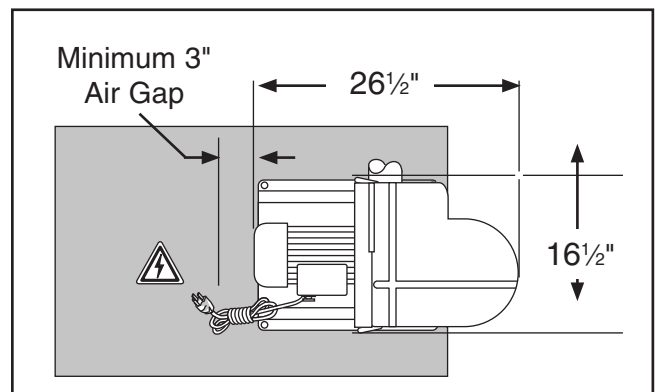
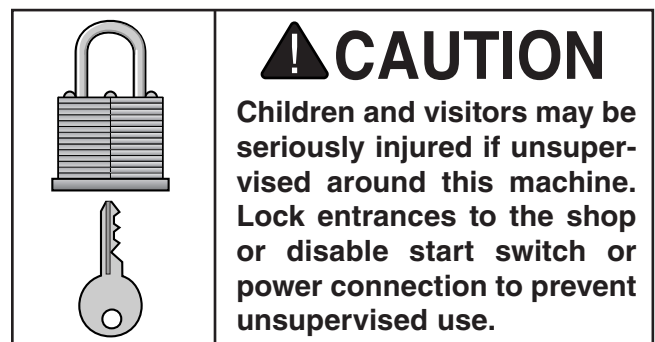


Figure 3. Minimum working clearances.

Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave access to a means of disconnecting the power source or engaging a lockout/tagout device, if required.



Mounting

We strongly recommend that you mount your sander to a workbench to prevent it from moving during operation. An unexpected movement could result in an injury or property damage.

There are two machine positioning scenarios that also must be recognized. If the sander is mounted directly to a workbench surface, the extended sanding table will contact the workbench top and stop at 35° instead of 45°. To prevent this contact, the sander must be mounted so 6" of the cast iron table overhangs past the workbench edge, or the sander can be mounted upon a 2½" thick riser block, which is fastened to the table. In either of these positions, the table will then be able to reach a full tilt of 45°.

When you have chosen the location to mount the sander, the strongest mounting option is the "Through Mount" option (**Figure 4**) where the holes are drilled all the way through the workbench and hex bolts, washers, and hex nuts are used to secure the machine.

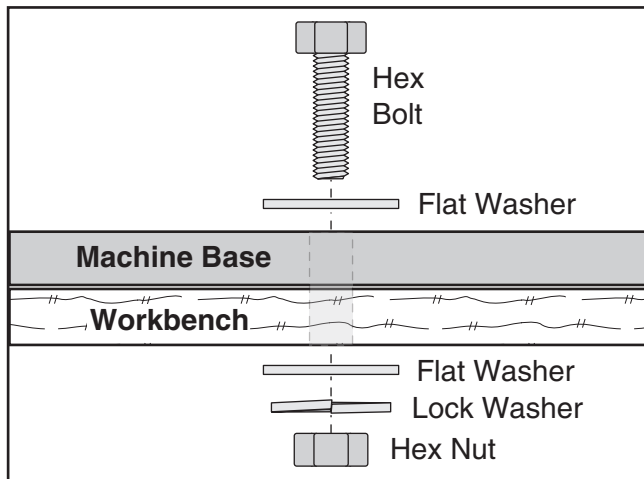


Figure 4. Example of a through mount setup.

Another option for mounting is a "Direct Mount" (**Figure 5**) where the machine is simply secured to the workbench with a lag screw.

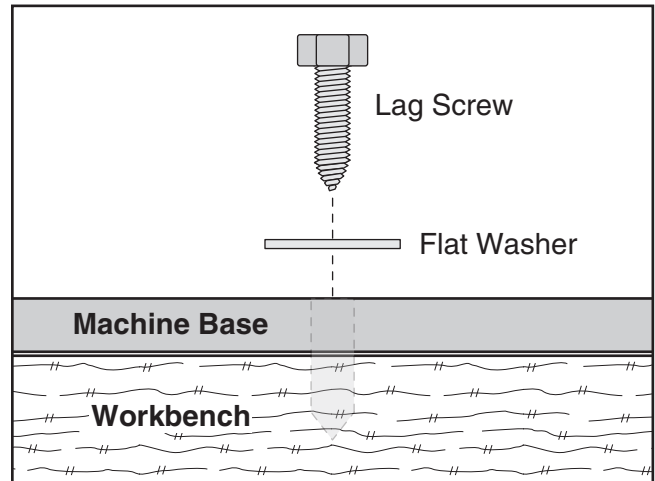


Figure 5. Example of a direct mount setup.

Power Connection

After you have completed all previous setup instructions and circuit requirements, the machine is ready to be connected to the power supply.

To avoid unexpected startups or property damage, use the following steps whenever connecting or disconnecting the machine.

Connecting Power

1. Turn the machine power switch **OFF**.
2. Insert the power cord plug into a matching power supply receptacle. The machine is now connected to the power source.

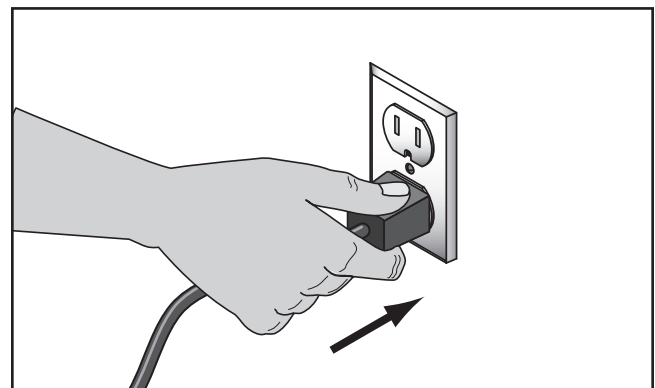


Figure 6. Connecting power.



Disconnecting Power

1. Turn the machine power switch **OFF**.
2. Grasp the molded plug and pull it completely out of the receptacle. Do not pull by the cord as this may damage the wires inside.

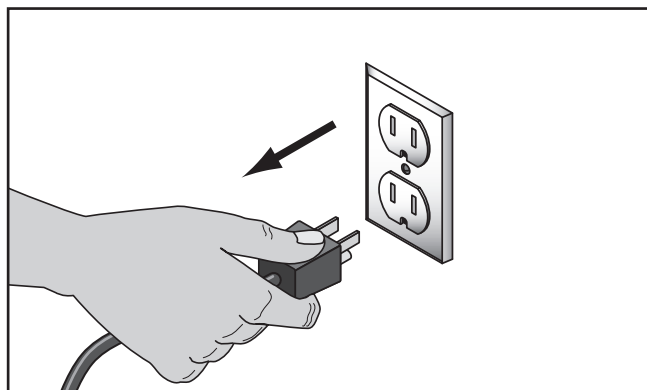


Figure 7. Disconnecting power.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly and is ready for regular operation.

The test run consists of verifying the following:

- 1) The motor powers up and runs correctly, and
- 2) the safety disabling mechanism on the switch works correctly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review **Troubleshooting** on **Page 19**.

If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

To test run the machine:

1. Rotate the disc by hand and make sure it turns freely.
2. Make sure you have read the safety instructions at the beginning of the manual and that the machine is setup properly.
3. Make sure all tools and objects used during setup are cleared away from the machine.

4. Connect the machine to the power source.
5. Verify that the machine is operating correctly by turning the machine **ON**.

—When operating correctly, the machine runs smoothly with little or no vibration or rubbing noises.

—Investigate and correct strange or unusual noises or vibrations before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.

6. Turn the machine **OFF**.
7. Remove the switch disabling key, as shown in **Figure 8**.

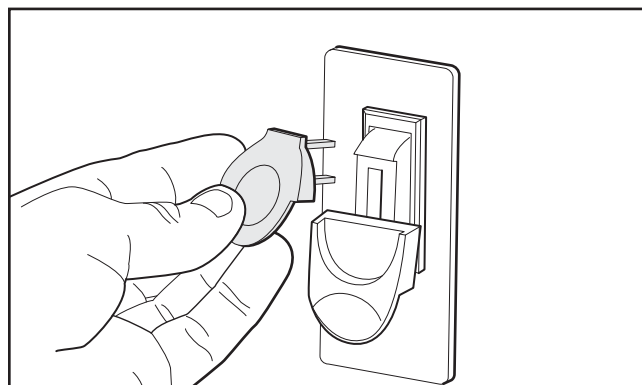


Figure 8. Removing switch key from paddle switch.

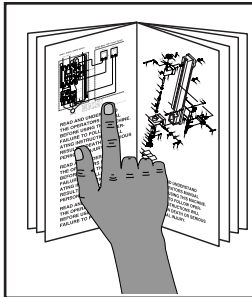
8. Try to turn the start the machine with the paddle switch.

—If the machine *does not* start, the switch disabling feature is working as designed.

—If the machine *does* start, immediately stop the machine. The switch disabling feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.



SECTION 4: OPERATIONS

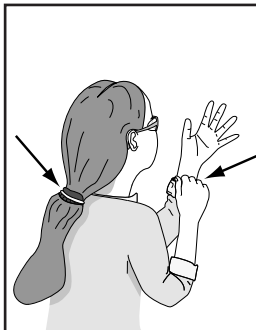


!WARNING

To reduce the risk of serious injury when using this machine, read and understand this entire manual before beginning any operations.

!WARNING

Damage to your eyes and lungs could result from using this machine without proper protective gear. Always wear safety glasses and a respirator when operating this machine.



!WARNING

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, review industry trade 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.

Operation Overview

This overview gives you the basic process that happens during an operation with this machine. Familiarize yourself with this process to better understand the **Operations** section.

To complete a sanding operation, the operator does the following:

1. Examines the workpiece to make sure it is suitable for sanding.
2. Adjusts the table tilt, if necessary, to the required sanding angle, and locks the table in place.
3. Inserts the miter bar in either the X-axis or Y-axis miter slots.
4. Adjusts the miter angle for the required horizontal sanding angle, and locks it in place.
5. Uses the appropriate clamping device or jig for small workpieces.
6. Wears safety glasses and a respirator, and locates push sticks if needed.
7. Starts the machine and dust collector.
8. Holds the workpiece firmly and flatly against both the table and miter, then pushes the workpiece into or along the sanding disc.
9. Moves the workpiece to different locations on the sanding disc to wear the sandpaper evenly and to prevent the sandpaper from overheating.
10. Stops the machine.



Attaching Sandpaper

The Model G0702 sander accepts 12" diameter adhesive-backed sanding discs. These are available in a variety of grits. See the current Grizzly catalog for prices and ordering information.

The sanding disc sticks to the surface of the cast iron disc platen, using the pressure sensitive adhesive backing (PSA). The sandpaper can be replaced without removing either the table or the dust port.

To attach sandpaper:

1. DISCONNECT MACHINE FROM POWER!
2. Remove the safety guard, peel-off the old sandpaper, and clean the disc surface with mineral spirits, and wipe dry.
3. Peel-back the protective layer on **one-half** of the sandpaper disc and fold it against the remaining half.
4. Slip the half with the protective layer between the disc and the table edge (**Figure 9**).



Figure 9. Sandpaper being slipped between the disc and table.

5. Position the exposed adhesive on the upper half of the disc that extends above the table. Once it is positioned evenly across the disc, press the adhesive onto the surface.

6. Now rotate the disc so the lower half is above the table and peel-off the other half of the protective paper, and press the sanding disc against the disc so adhesion is complete.
7. Reinstall the safety guard.

X & Y Miter Slots

The Model G0702 uses dual-axis miter slot design for increased versatility of workpiece control or special jig or fixture mounting ability.

To sand using the miter slot:

1. Set the angle of the table relative to the sanding disc. The angle can be set with the angle gauge on the disc sander or with a protractor for greater accuracy.
2. When a 90° horizontal angle is required, place one surface of the workpiece firmly against the face of the miter gauge (set at 90°) with the other surface against the face of the disc (**Figure 10**).



Figure 10. Miter slot and work path.

Note: For sanding curves or irregular shapes, remove the miter gauge from the disc table. Always keep the workpiece on the side of the wheel that is rotating down toward the table. This will keep the workpiece from flying out of your hands from the rotational forces.



Miter Sanding

The most efficient way to get a perfect miter is to cut the workpiece slightly long and sand it to the desired dimension. Miter sanding can be done easily with the miter gauge.

To perform miter sanding operations:

1. Loosen the knob on the miter gauge and adjust the angle to the desired point. Tighten the knob.
2. Slide the miter gauge into its slot and use it to hold your workpiece in position.

Note: The miter gauge can be used in either direction in the slot to achieve the proper relation of the workpiece to the disc.

3. With light, but firm pressure, push the workpiece slowly into the down-spin side of the rotating disc (**Figure 11**).



Figure 11. Angle sanding.

Angle Sanding

The disc table can be positioned from -15° to 45° , relative to the plane of the sanding disc. Sanding in an "open angle zone" rather than in a "closed angle zone" is typically safest (**Figure 12**). Understanding this relationship helps prevent trapping the workpiece between the sanding surface and the table, and reduces the hazard of workpiece kickback.

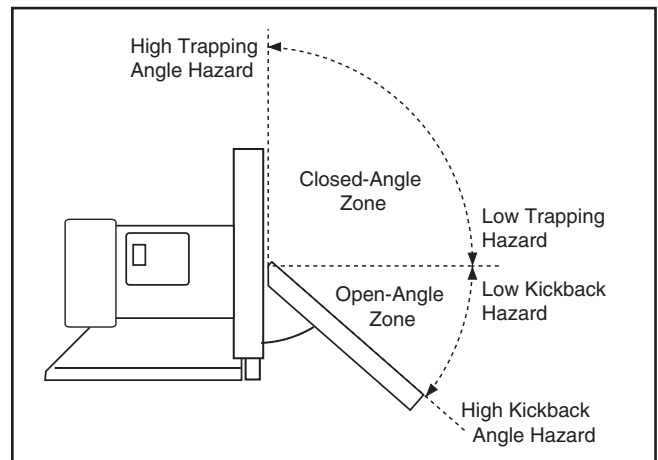


Figure 12. Trapping and kickback zones.

To perform angle sanding operations:

1. Position the table to the desired angle as shown on the angle scale.
2. Use the miter gauge to hold your workpiece in position, and with light, but firm pressure, push the workpiece slowly into the down-spin side of the rotating disc (**Figure 13**).

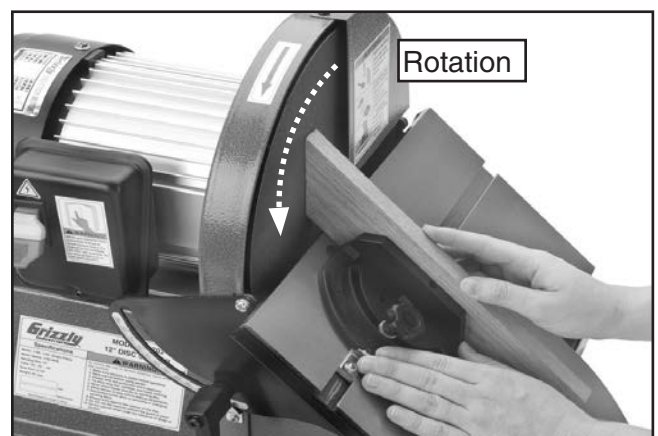


Figure 13. Sanding with table angled.



SECTION 5: ACCESSORIES

⚠ WARNING

Some aftermarket accessories can be installed on this machine that could cause it to function improperly, increasing the risk of serious personal injury. To minimize this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to the newest copy of the Grizzly Catalog for other accessories available for this machine.

Call 1-800-523-4777 To Order

Sanding Discs from ISO 9002 Factories

MODEL and TYPE	GRIT
G1220 12" PSA.....	60
G4255 12" PSA	80
G1221 12" PSA.....	100
G4256 12" PSA	120
G1222 12" PSA	150
G4257 12" PSA	180
G4258 12" PSA	220



Figure 14. Sanding discs.

G0572—Bench Top Dual Fan Dust Filter

This Hanging Air Filter has a convenient remote control and features a three speed motor, automatic shutoff timer and 1 micron inner filter and 5 micron outer filter. Air flow is 556, 702 and 1044 CFM. Overall size is 26"L x 19-1/2"W x 15"H.



Figure 15. G0572 Air filter.

PRO-STICK® Abrasive Surface Cleaners

Extend the life of your sanding discs and sleeves! Choose the Pro-Stick® with a handle for greater control or without a handle for more usable area.

Size	Model
1½" X 1½" X 8½"	G1511
2" X 2" X 12".....	G1512
1½" X 1½" X 9" with Handle.....	G2519
2" X 2" X 11" with Handle.....	G2520

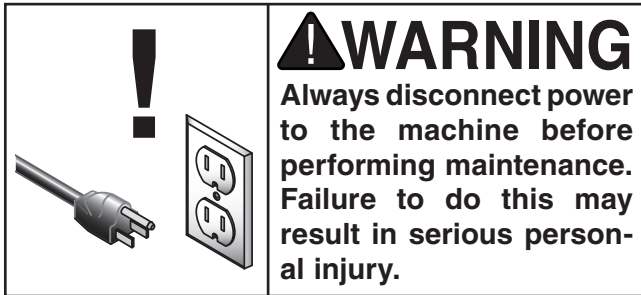


Figure 16. PRO-STICK® abrasive cleaners.

Call 1-800-523-4777 To Order



SECTION 6: MAINTENANCE



Schedule

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

Daily Check:

- Loose mounting bolts.
- Worn loose, or damaged sanding disc.
- Worn or damaged power cord.
- Any other condition that could hamper the safe operation of this machine.

Weekly Maintenance:

- Wipe off the sawdust build-up from the table surface.
- Vacuum out dust from the motor fan area and from around the base of the machine.

Cleaning

Cleaning the Model G0702 is easy. Vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it. Treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

Unpainted Cast Iron

Protect the unpainted cast iron surfaces on the table by wiping the table clean after every use—this ensures moisture from wood dust does not remain on bare metal surfaces.

Keep tables rust-free with regular applications of products like G96® Gun Treatment, SLIPIT®, or Boeshield® T-9.

Lubrication

This machine uses permanently lubricated ball bearings. No bearing maintenance is required.

Machine Storage

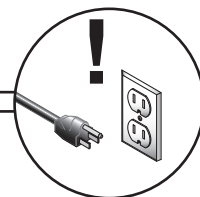
When the dust collector is not in use, unplug the power cord from the power source. Place the cord away from potential damage sources, such as high traffic areas, sharp objects, heat sources, harsh chemicals, water, damp areas, etc. When the dust collector is not in use, Keep unpainted surfaces rust free with products such as Boeshield® T-9.



SECTION 7: SERVICE

Review the troubleshooting and procedures in this section to fix or adjust your machine if a problem develops. If you need replacement parts or you are unsure of your repair skills, then feel free to call our Technical Support at (570) 546-9663.

Troubleshooting

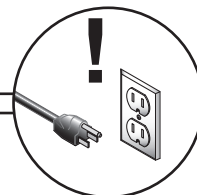


Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does not start.	<ol style="list-style-type: none"> 1. Switch disabling key removed. 2. Break or short in wiring, loose connections, plug or receptacle is corroded or miswired. 3. Power supply switched off/has incorrect voltage. 4. Blown fuse/tripped circuit breaker at main panel. 5. Motor connection wired incorrectly. 6. Motor ON/OFF switch at fault. 7. Start capacitor has blown. 8. Centrifugal switch at fault. 9. Motor at fault. 	<ol style="list-style-type: none"> 1. Reinstall switch disabling key. 2. Trace/replace broken or corroded wires, fix loose connections, correct wiring. 3. Switch power supply on/verify voltage. 4. Correct the cause of overload, then reset/replace fuse or breaker. 5. Wire motor correctly (refer to inside junction box cover or manual). 6. Replace switch. 7. Test/replace if at fault. 8. Adjust/replace centrifugal switch. 9. Test for shorted windings or bad bearings; repair or replace.
Machine has excessive vibration or noise.	<ol style="list-style-type: none"> 1. Workpiece loose or incorrectly secured. 2. Motor fan rubbing on fan cover. 3. Motor mounting loose. 4. Lock lever is loose. 5. Machine incorrectly mounted to bench. 6. Centrifugal switch out of adjustment; at fault. 7. Motor bearings worn or damaged. 	<ol style="list-style-type: none"> 1. Use correct holding fixture and re-clamp workpiece. 2. Fix/replace fan cover; replace loose or damaged fan. 3. Tighten mounting bolts/nuts; use thread locking fluid. 4. Tighten the lock lever. 5. Level/shim base; tighten/adjust mounting hardware or feet. 6. Adjust/replace centrifugal switch. 7. Replace motor bearings or replace motor.
Machine stalls or slows when operating.	<ol style="list-style-type: none"> 1. Too much pressure when feeding workpiece 2. Workpiece is warped. 3. Workpiece is incorrect for machine. 4. Motor connection wired incorrectly. 5. Motor overheated. 6. Centrifugal switch at fault. 7. Motor at fault. 	<ol style="list-style-type: none"> 1. Reduce pressure when feeding workpiece. 2. Straighten workpiece or use a different one. 3. Only sand wood and ensure moisture is below 20%. 4. Review wiring diagram on motor cover; correct wire connections. 5. Let cool, clean motor, and reduce workload. 6. Adjust/replace centrifugal switch if available. 7. Test, repair, or replace motor.



Troubleshooting



Workpiece Finish

Symptom	Possible Cause	Possible Solution
Miter bar loose or binds in miter slot.	1. Miter slot dirty or gummed up.	1. Carefully clean miter slot.
Workpiece angle incorrect or out of square.	1. Pointer or scale not calibrated correctly.	1. Adjust pointer or scale to reflect real path of cut.
Sandpaper clogs quickly or burns.	1. Sandpaper grit is too fine for the job. 2. Workpiece is too moist. 3. Sanding depth too aggressive. 4. Paint, varnish, pitch, or other coating is loading up sandpaper. 5. Sanding soft workpiece.	1. Replace with a coarser grit sandpaper. 2. Allow workpiece to dry out. 3. Reduce sanding depth or install coarser sandpaper. 4. Install a coarse grit sandpaper, or strip coating off before sanding. 5. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing discs frequently.
Glossy spots, burning, or streaks on workpiece.	1. Sandpaper too fine for the desired finish. 2. Work held still for too long. 3. Workpiece is too moist. 4. Sanding stock with high residue. 5. Worn sandpaper. 6. Sanding depth too aggressive.	1. Use a coarser grit sandpaper. 2. Do not keep workpiece in one place for too long. 3. Allow workpiece to dry out. 4. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing sandpapers frequently. 5. Replace sandpaper. 6. Reduce sanding depth or install coarser sandpaper.
Abrasive rubs off the belt easily.	1. Sandpaper has been stored in an incorrect environment.	1. Store sandpaper away from extremely dry, hot, or damp conditions.



Table/Disc Parallelism

The edge of the table must be parallel with the face of the sanding disc, and there should be a gap between the two. This gap should be large enough so that the sandpaper does not rub against the table, but small enough so that the gap is not a pinch hazard.

To make the table and sanding disc parallel:

1. DISCONNECT MACHINE FROM POWER!
2. Using a 10mm wrench, loosen the six hex bolts that secure the table to the table support brackets.
3. Adjust the table so that there is a $\frac{1}{16}$ " gap (**Figure 17**) between the 12" disc (with sandpaper installed) and the table.

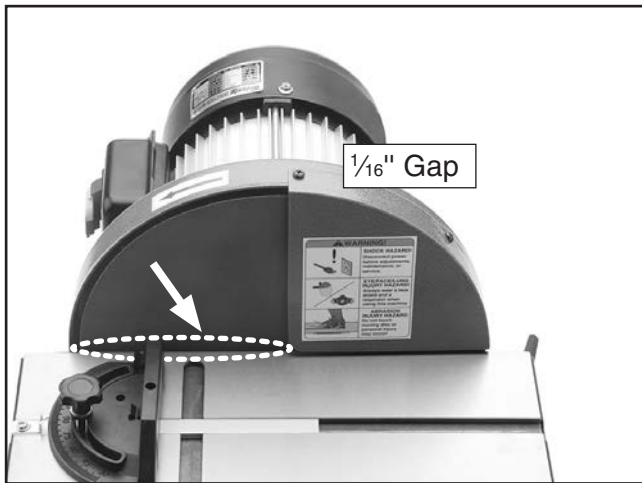


Figure 17. Table parallel with sanding disc.

4. When the table is parallel with the sanding disc, tighten the hex bolts.
 5. Spin the disc by hand to check if the sandpaper is touching the table.
- Note:** *DO NOT turn the disc sander on at this point.*
6. Re-adjust the table parallelism if the sandpaper touches the table at any point in its rotation.

Miter Gauge Calibration

At 90° the miter gauge should be perpendicular to the face of the wheel when it is mounted in the table slot. If not follow this procedure.

To calibrate the miter gauge:

1. DISCONNECT MACHINE FROM POWER!
2. Use a try square or machinist's square with one edge against the face of the miter gauge and the other against the disc face, as shown in **Figure 18**.



Figure 18. Squaring miter gauge to disc.

3. Loosen the lock knob on the miter gauge and adjust the face of the miter gauge so it is flush with the edge of the square, tighten the gauge lock knob, and verify the setting.
4. Using a Phillips head screwdriver, loosen the degree scale pointer, position the pointer on 90°, and retighten the screw.
5. Recheck the miter scale accuracy with the square.



Table Tilt Calibration

When the table tilt is set to 90°, the table should be positioned perpendicular to the sanding disc face. If not follow this procedure.

To calibrate the table tilt:

1. DISCONNECT MACHINE FROM POWER!
2. Using a try square or machinist's square, set one edge on the table surface and the other against the face of the disc, as shown in **Figure 19**.

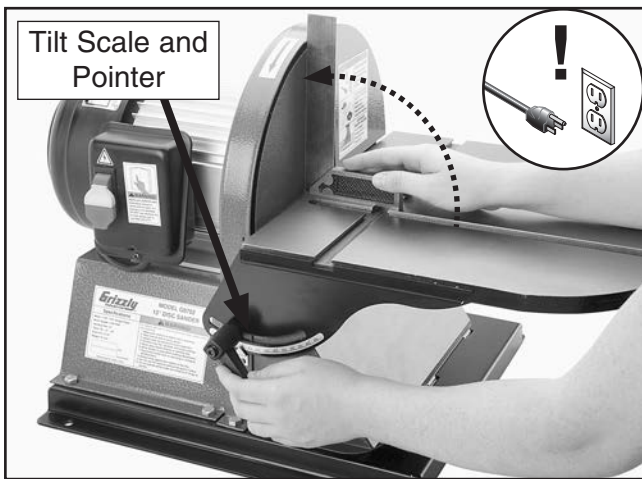


Figure 19. Squaring the table.

Note: This can be done with the sandpaper installed, although it is somewhat more precise if the sandpaper is not installed.

3. Loosen the lock levers and adjust the table angle until it is perfectly perpendicular to the disc, then tighten the lock levers while holding the table in place.
4. Using a Phillips head screwdriver, loosen the degree scale pointer, index the pointer on 0°, and retighten the screw.
5. Recheck the scale accuracy with the square.



SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Study this section carefully. If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine.

WARNING

Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved after-market parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.
















CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

BLACK 	BLUE 	YELLOW 	LIGHT BLUE 
WHITE 	BROWN 	YELLOW GREEN 	BLUE WHITE 
GREEN 	GRAY 	PURPLE 	TURQUOISE 
RED 	ORANGE 	PINK 	



Wiring Diagram

Grizzly
Industrial, Inc.®

View this page in color at
www.grizzly.com.

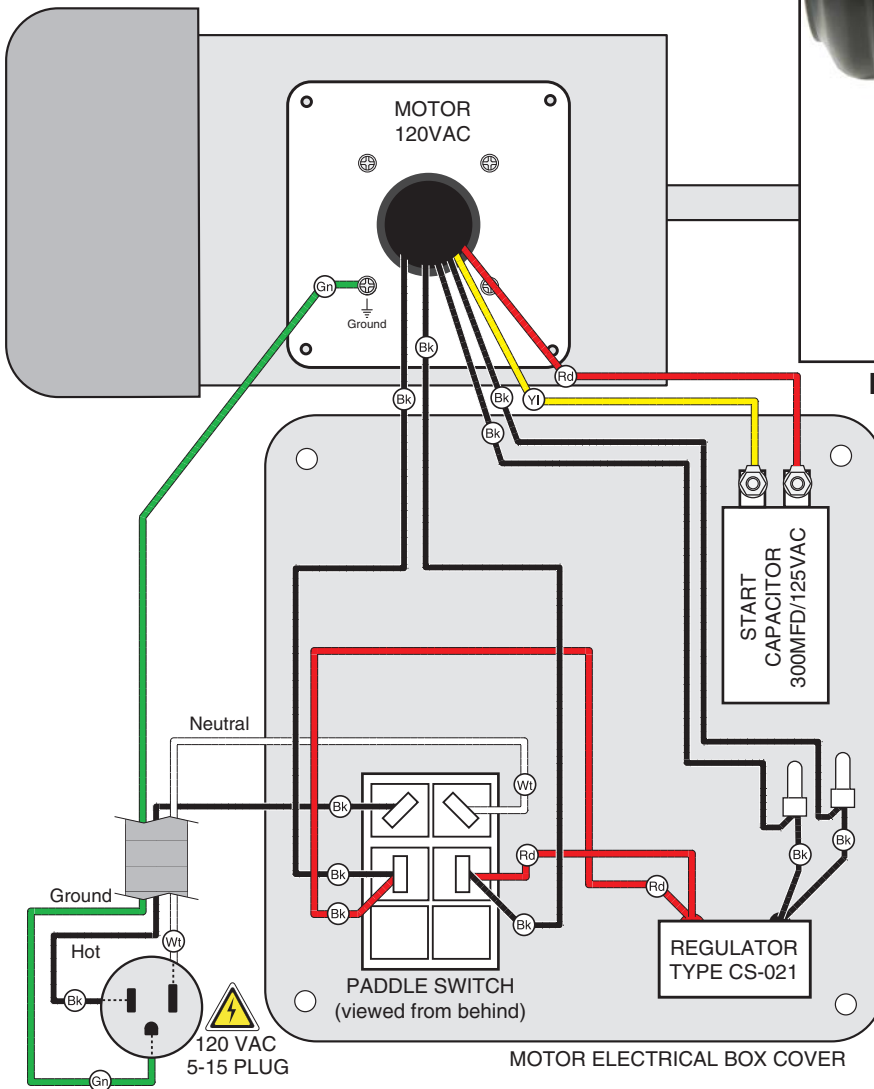


Figure 20. Electrical system.



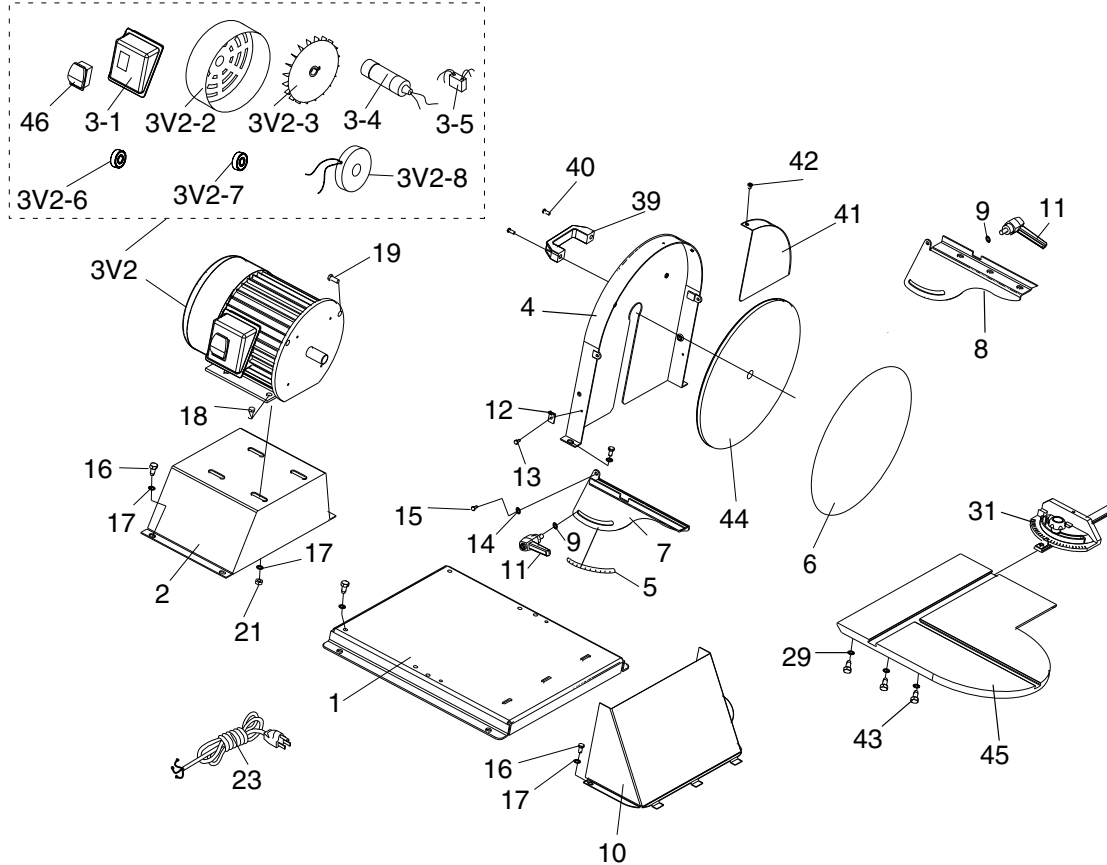
NOTICE

The motor wiring shown here is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.



SECTION 9: PARTS

Main Breakdown and Parts List

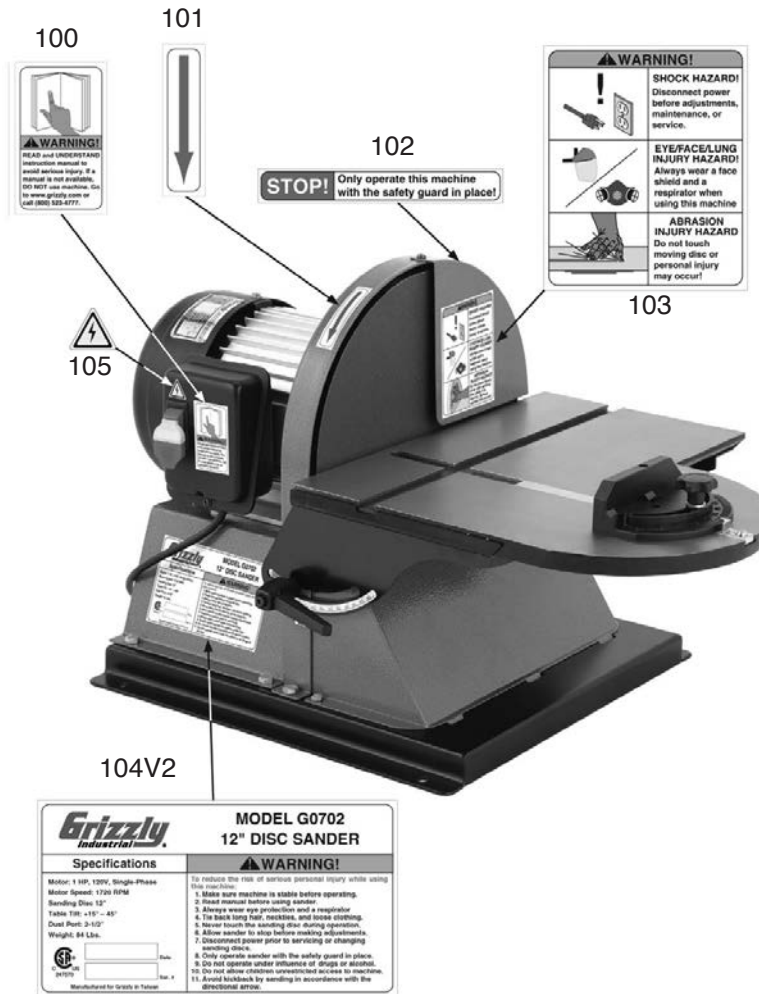


REF	PART #	DESCRIPTION
1	P0702001	MACHINE BASE
2	P0702002	MOTOR BASE
3V2	P0702003V2	MOTOR 1HP 120V 1-PH V2.01.12
3V2-1	P0702003V2-1	ELECTRICAL BOX COVER V2.01.12
3V2-2	P0702003V2-2	MOTOR FAN COVER V2.01.12
3V2-3	P0702003V2-3	MOTOR FAN V2.01.12
3V2-4	PC300B	S. CAPACITOR 300M 125V 1-3/4 X 3-3/8
3V2-5	P0702003V2-5	REGULATOR TYPE CS-021
3V2-6	P6205ZZ	BALL BEARING 6205ZZ
3V2-7	P6203ZZ	BALL BEARING 6203ZZ
3V2-8	P0702003V2-8	MOTOR BRAKE MCN CS-02-CS
4	P0702004	DISC HOUSING
5	P0702005	ADHESIVE SCALE
6	P0702006	ADHESIVE 12" SANDING DISC 100 GRIT
7	P0702007	LEFT TRUNNION
8	P0702008	RIGHT TRUNNION
9	P0702009	FLAT WASHER 8MM
10	P0702010	DUST HOOD
11	P0702011	ADJUSTABLE HANDLE M8-1.25 x 15
12	P0702012	TRUNNION SCALE POINTER

REF	PART #	DESCRIPTION
13	PS07M	PHLP HD SCR M4-.7 X 8
14	PLW03M	LOCK WASHER 6MM
15	PS03M	PHLP HD SCR M6-1 X 8
16	PS14M	PHLP HD SCR M6-1 X 12
17	PW03M	FLAT WASHER 6MM
18	PS32M	PHLP HD SCR M8-1.25 X 25
19	PS04M	PHLP HD SCR M8-1.25 X 20
21	PN03M	HEX NUT M8-1.25
23	PWRCRD110L	POWER CORD 16AWG X 3C X 73"L
29	PW03M	FLAT WASHER 6MM
31	P0702031	MITER GAUGE ASSEMBLY
39	P0702039	LIFTING HANDLE
40	PCAP02M	CAP SCREW M6-1 X 20
41	P0702041	SAFETY GUARD
42	PS05M	PHLP HD SCR M5-.8 X 8
43	PB02M	HEX BOLT M6-1 X 12
44	P0702044	CAST IRON DISC
45	P0702045	TABLE
46V2	G8988	GRIZZLY SAFETY PADDLE SWITCH



Label Parts List



REF	PART #	DESCRIPTION
100	PLABEL-12C	READ MANUAL LABEL
101	P0702101	ARROW LABEL
102	P0702102	GUARD WARNING LABEL

REF	PART #	DESCRIPTION
103	P0702103	COMBO WARNING LABEL
104V2	P0702104V2	MACHINE ID LABEL CSA V2.11.11
105	PLABEL-14B	ELECTRICITY LABEL

WARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine **MUST** replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.





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?

_____ Advertisement _____ Friend _____ Catalog
_____ Card Deck _____ Website _____ Other:

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

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

3. What is your annual household income?

_____ \$20,000-\$29,000 _____ \$30,000-\$39,000 _____ \$40,000-\$49,000
_____ \$50,000-\$59,000 _____ \$60,000-\$69,000 _____ \$70,000+

4. What is your age group?

_____ 20-29 _____ 30-39 _____ 40-49
_____ 50-59 _____ 60-69 _____ 70+

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

_____ 0-2 Years _____ 2-8 Years _____ 8-20 Years _____ 20+ Years

6. How many of your machines or tools are Grizzly?

_____ 0-2 _____ 3-5 _____ 6-9 _____ 10+

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: _____

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 AND 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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