

# ***Grizzly*** ***Industrial, Inc.***®

## **MODEL G0693** **14" METAL CUTTING** **ABRASIVE SAW** **OWNER'S MANUAL**

***(FOR MACHINES MANUFACTURED FROM 11/08 AND LATER)***



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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.**

#JBCR11501 PRINTED IN TAIWAN

 **WARNING!**

**This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.**

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

**The owner of this machine/equipment 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, blade/cutter 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 errors do happen and we apologize for them.

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:		ing this machine: operation. s and respirator. sted/setup and suit before starting.	
Specification:			
Specification:			
Specification:			
Weight:			
	Date	Manufacture Date of Your Machine	
	Serial Number		
Manufactured for Grizzly in Taiwan			
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.			

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

## Contact Info

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

Grizzly Industrial, Inc.  
1203 Lycoming Mall Circle  
Muncy, PA 17756  
Phone: (570) 546-9663  
Fax: (800) 438-5901  
E-Mail: [techsupport@grizzly.com](mailto:techsupport@grizzly.com)

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.  
c/o Technical Documentation Manager  
P.O. Box 2069  
Bellingham, WA 98227-2069  
Email: [manuals@grizzly.com](mailto:manuals@grizzly.com)

## Machine Description

This 14" Metal Cutting Abrasive Saw is used to cut thin-walled metal workpieces accurately, efficiently, and safely. This saw is advantageous over a typical metal-cutting band saw in that the cuts produced are cleaner, more accurate, and can be made much faster.

An adjustable vise holds the workpiece securely and ensures proper positioning of the workpiece relative to the blade.

The cutting angle is adjustable from 0° to 45° and is measured by a scale located on the saw base.



# Identification

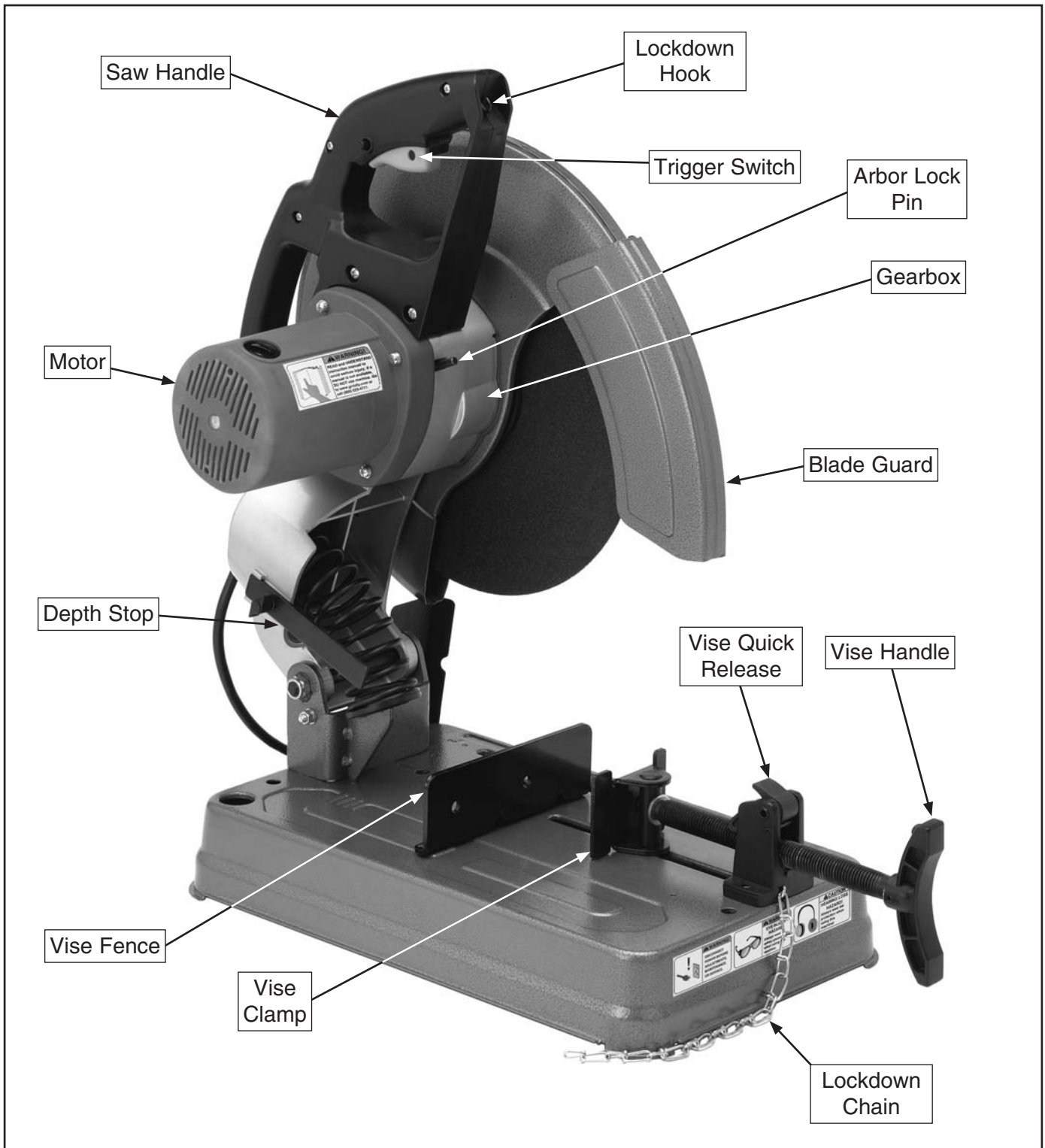


Figure 1. Identification.





# MACHINE DATA SHEET

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

## MODEL G0693 14" METAL CUTTING ABRASIVE SAW

### Product Dimensions:

Weight ..... 37 lbs.  
 Length/Width/Height ..... 19<sup>3</sup>/<sub>4</sub>" x 11" x 23<sup>5</sup>/<sub>8</sub>"  
 Foot Print (Length/Width)..... 18<sup>1</sup>/<sub>2</sub>" x 11"

### Shipping Dimensions:

Type ..... Cardboard Box  
 Content..... Machine  
 Weight..... 40 lbs.  
 Length/Width/Height..... 22" x 13" x 17"

### Electrical:

Switch..... Trigger Switch on Handle  
 Switch Voltage ..... 110V  
 Cord Length ..... 8 ft.  
 Cord Gauge ..... 14 gauge  
 Minimum Circuit Size ..... 20A  
 Plug Type Included ..... NEMA 5-15

### Motor:

Type ..... Universal DC  
 Horsepower..... 4 HP  
 Voltage..... 110V  
 Phase ..... Single  
 Amps ..... 15A  
 Speed..... 23,000 RPM  
 Cycle ..... 60 Hz  
 Number Of Speeds ..... 1  
 Power Transfer ..... Gearbox  
 Bearings ..... Shielded and Permanently Sealed



**Main Specifications:**

**Operation Information**

Blade Speed.....	3800 RPM
Blade Size.....	14"
Arbor Size.....	1"

**Cutting Capacities**

Angle Cuts.....	45° – 90°
Vise Jaw Depth.....	8 <sup>5</sup> / <sub>8</sub> "
Vise Jaw Height.....	2 <sup>1</sup> / <sub>4</sub> "
Maximum Capacity Square @ 90°.....	4 <sup>1</sup> / <sub>2</sub> "
Maximum Capacity Rectangular @ 90°.....	2 <sup>3</sup> / <sub>4</sub> "W x 8 <sup>1</sup> / <sub>2</sub> "H
Maximum Capacity Round @ 90°.....	4 <sup>1</sup> / <sub>2</sub> "
Maximum Capacity Square @45°.....	4 <sup>1</sup> / <sub>8</sub> "
Maximum Capacity Rectangular @ 45°.....	3 <sup>1</sup> / <sub>8</sub> "W x 3 <sup>3</sup> / <sub>4</sub> "H
Maximum Capacity Round @ 45°.....	4 <sup>1</sup> / <sub>2</sub> "

**Construction**

Table Construction.....	Formed Steel
Saw Wheel Cover.....	Steel
Body Construction.....	Steel
Paint.....	Urethane

**Other Specifications:**

Country Of Origin.....	Taiwan
Warranty.....	1 Year
Serial Number Location.....	Machine ID Label on Body Frame

**Features:**

- Spring Assisted Return
- Adjustable Angle from 45° to 90°
- Blade Included



# SECTION 1: SAFETY

## WARNING

### 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.



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.

## WARNING

### Safety Instructions for Machinery

- 1. READ THE ENTIRE MANUAL BEFORE STARTING MACHINERY.** Machinery presents serious injury hazards to untrained users.
- 2. ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
- 3. ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Most types of dust (wood, metal, etc.) can cause severe respiratory illnesses.
- 4. ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing loss.
- 5. WEAR PROPER APPAREL. DO NOT** wear loose clothing, gloves, neckties, rings, or jewelry that can catch in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- 6. NEVER OPERATE MACHINERY WHEN TIRED OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.



# WARNING

## Safety Instructions for Machinery

7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.
8. **KEEP CHILDREN AND VISITORS AWAY.** Keep all children and visitors a safe distance from the work area.
9. **MAKE WORKSHOP CHILDPROOF.** Use padlocks, master switches, and remove start switch keys.
10. **NEVER LEAVE WHEN MACHINE IS RUNNING.** Turn power **OFF** and allow all moving parts to come to a complete stop before leaving machine unattended.
11. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
12. **KEEP WORK AREA CLEAN AND WELL LIGHTED.** Clutter and dark shadows may cause accidents.
13. **USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE.** Grounded cords minimize shock hazards. Undersized cords create excessive heat. Always replace damaged extension cords.
14. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY.** Make sure switch is in OFF position before reconnecting.
15. **MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Make a habit of checking for keys and adjusting wrenches before turning machinery **ON**.
18. **CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding or misaligned parts, broken parts, loose bolts, and any other conditions that may impair machine operation. Repair or replace damaged parts before operation.
19. **USE RECOMMENDED ACCESSORIES.** Refer to the instruction manual for recommended accessories. Improper accessories increase risk of injury.
20. **DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.
21. **SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
22. **DO NOT OVERREACH.** Maintain stability and balance at all times.
23. **MANY MACHINES CAN EJECT WORKPIECES TOWARD OPERATOR.** Know and avoid conditions that cause the workpiece to "kickback."
24. **ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.**
25. **CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Be aware of the type of dust you are exposed to and always wear a respirator designed to filter that type of dust.



## **WARNING**

# Safety Instructions for Metal Cutting Saws

- 1. BLADE CONDITION.** Do not operate with a dull, cracked or badly worn blade. Inspect blades for cracks before each use.
- 2. HAND PLACEMENT.** Never position fingers or thumbs in line with the cut. Hands could be crushed in vise or from falling machine components.
- 3. ENTANGLEMENT HAZARDS.** Do not operate this saw without blade guard in place. Loose clothing, jewelry, long hair and work gloves can be drawn into working parts.
- 4. BLADE REPLACEMENT.** When replacing blades, disconnect the machine from power, wear gloves to protect hands and safety glasses to protect eyes.
- 5. LOSS OF STABILITY.** Unsupported workpieces may jeopardize machine stability and cause the machine to tip and fall which could cause serious injury.
- 6. FIRE HAZARD.** DO NOT attempt to cut magnesium with an abrasive saw. The chips produced by the blade will catch fire and burn at approximately 4000° F, resulting in serious personal injury and damage to the machine.
- 7. HOT SURFACES.** Contact with hot surfaces from machine components, ejections of hot chips, and the workpiece itself can cause burns.
- 8. ATTENTION TO WORK AREA.** Never leave a machine running and unattended. Pay attention to the actions of others in the area to avoid unintended accidents.
- 9. MAINTENANCE/SERVICE.** All inspections, adjustments, and maintenance are to be done with the power **OFF** and the plug pulled from the outlet. Wait for all moving parts to come to a complete stop.
- 10. HEARING PROTECTION & HAZARDS.** Noise generated by blade and workpiece vibration, material handling, and power transmission can cause permanent hearing loss over time and interfere with communication and audible signals.
- 11. WORKPIECE HANDLING.** Always support the workpiece with table, vise, or some type of support fixture. Flag long pieces to avoid a tripping hazard. Never hold the workpiece with your hands during a cut.
- 12. FIRE HAZARD.** This saw creates a stream of sparks during operation. To reduce fire hazards do not operate near combustibles.
- 13. LUNG HAZARD.** Understand the hazards of the materials that you are cutting and wear the appropriate type of respirator and eye protection. Many metals give off poisonous fumes when cut and can result in serious personal injury or illness.

## **WARNING**

No list of safety guidelines can be complete. Every shop environment is different. Like all machines there is danger associated with the Model G0693. 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.

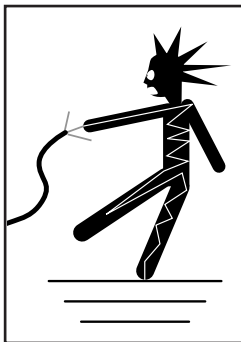


# SECTION 2: CIRCUIT REQUIREMENTS

## 110V Operation

### **!WARNING**

Serious personal injury could occur if you connect the machine to power before completing the setup process. **DO NOT** connect the machine to the power until instructed later in this manual.



### **!WARNING**

Electrocution or fire could result if machine is not installed in compliance with electrical codes. Compliance **MUST** be verified by a qualified electrician!

### Full Load Amperage Draw

This machine draws the following amps under maximum load:

Amp Draw..... 15 Amps

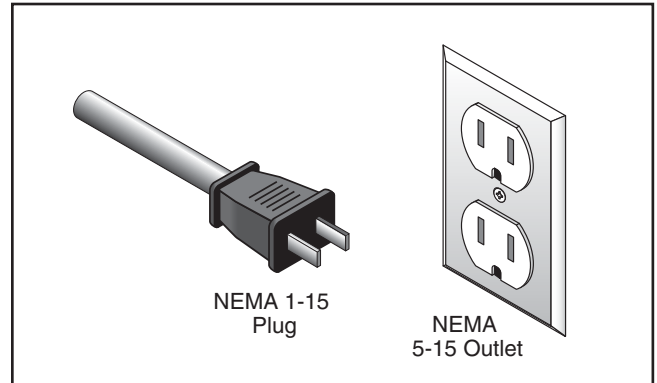
### Power Supply Circuit Requirements

The power supply circuit for your machine **MUST** be grounded and rated for the amperage given below. Never replace a circuit breaker on an existing circuit with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. **If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, consult a qualified electrician.**

Minimum Circuit Size..... 20 Amps

### Power Connection Device

The Model G0693 comes with a 1-15 plug, similar to **Figure 2**, to connect the machine to power.



**Figure 2.** Typical 1-15 plug and 5-15 receptacle.

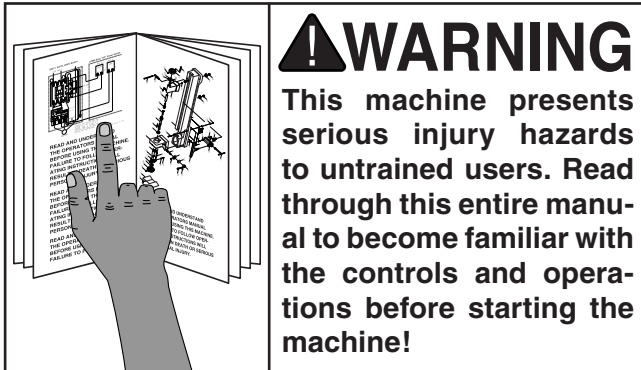
### Extension Cords

We do not recommend using extension cords, but if you find it absolutely necessary:

- Use at least a 14 gauge cord that does not exceed 50 feet in length!
- A qualified electrician **MUST** size cords over 50 feet long to prevent motor damage.



# SECTION 3: SETUP



## 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.*

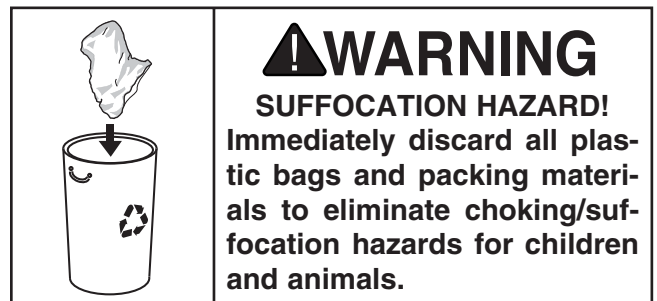
When you are completely satisfied with the condition of your shipment, inventory the contents.

## Inventory

The Model G0693 is packaged as a single unit, fully assembled and ready for use.



Figure 3. Inventory.



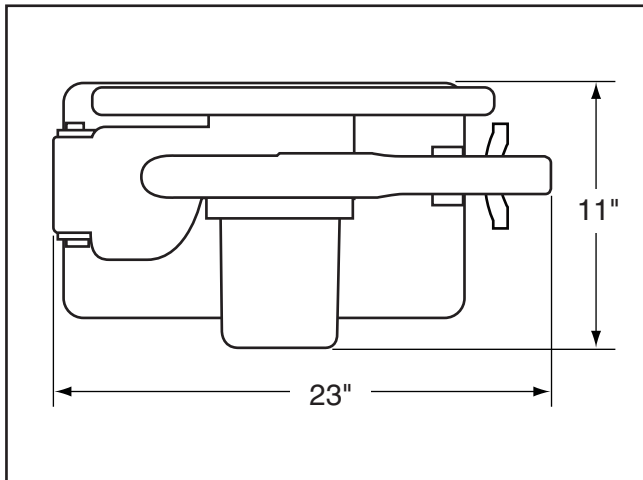
# Site Considerations

## Workbench Load

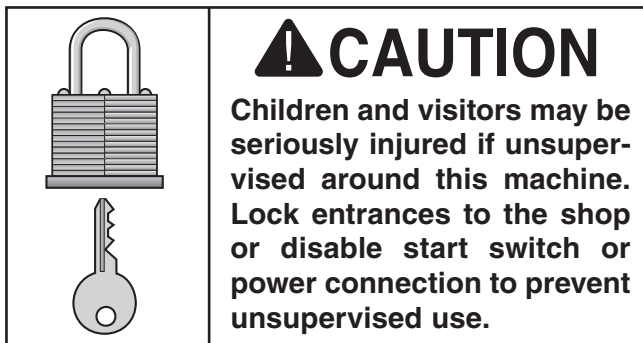
Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some workbenches may require additional reinforcement to support both the machine and workpiece.

## 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 4** for the minimum working clearances. **DO NOT place machine in an area where the stream of sparks created during operation will come near any combustibles.**



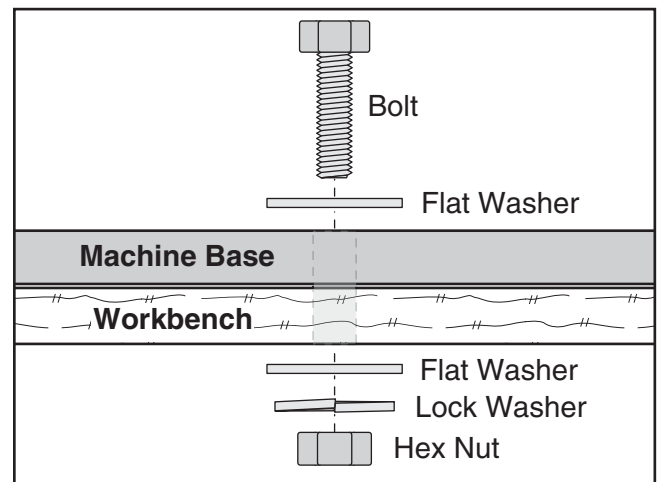
**Figure 4.** Minimum working clearances.



# Mounting

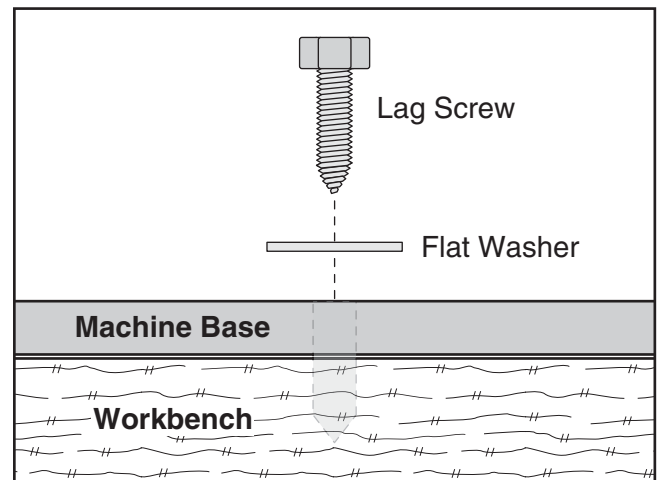
The base of this machine has holes that allow it to be mounted to a workbench. We strongly recommend that you mount your machine to a workbench to prevent it from moving during operation. An unexpected movement could result in an injury or property damage.

The strongest mounting option is a "Through Mount" where holes are drilled all the way through the workbench, and hex bolts, washers, and hex nuts are used to secure the drill press to the workbench.



**Figure 5.** Example of a through mount setup.

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



**Figure 6.** Example of a direct mount setup.



# Test Run

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Once the assembly is complete, test run your machine to make sure it runs properly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 21**.

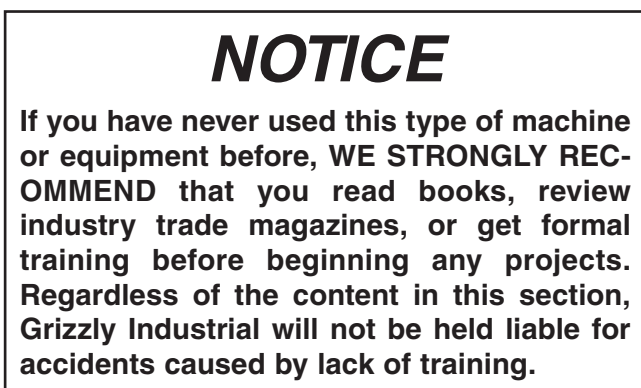
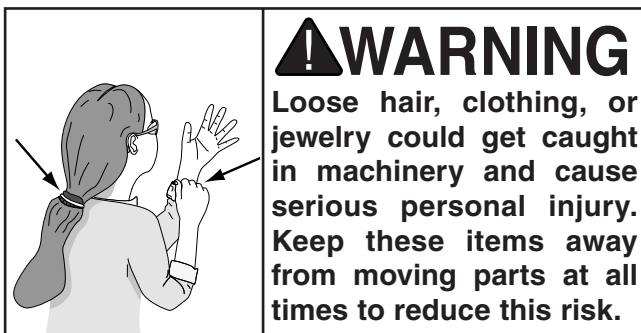
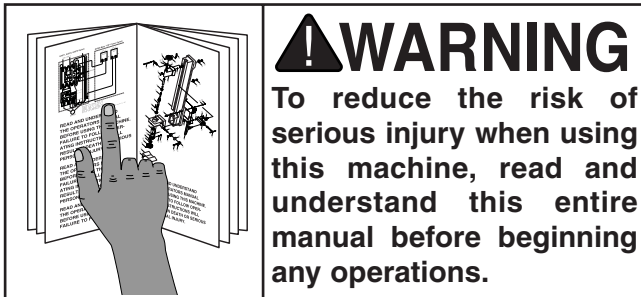
If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

## To test run the machine:

1. Make sure you have read the safety instructions at the beginning of the manual and that the machine is set up properly.
2. Make sure all tools and objects used during setup are cleared away from the machine.
3. Connect the machine to the power source.
4. Pull the trigger switch to turn the saw **ON**.
5. Listen and watch for abnormal noises or actions. The machine should run smoothly with little or no vibration or rubbing noises.  
  
—Strange or unusual noises must be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting problems.
6. Release the trigger switch to turn the machine **OFF**.



# SECTION 4: OPERATIONS



## Basic Controls

Use the descriptions and figures below to become familiar with the basic controls of your machine.

**Trigger Switch:** Turns the motor **ON**, spinning the blade.

**Saw Handle:** Lowers the saw into the workpiece.

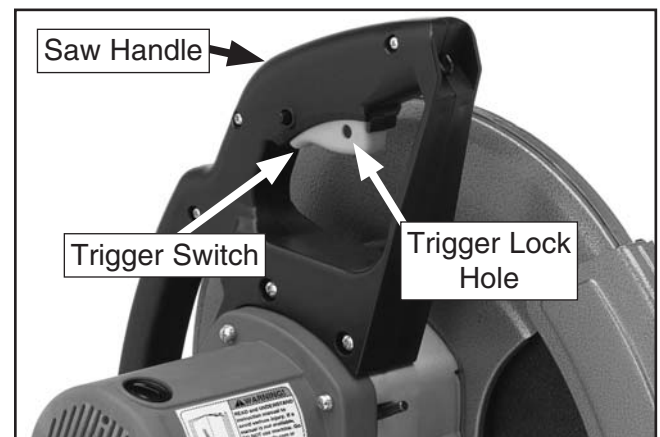


Figure 7. Control box.

**Vise Crank Handle:** Opens and closes the vise jaws to clamp the workpiece.

**Vise Angle Cap Screw:** Locks the angle of the vise fence.

**Vise Mount Cap Screw:** Locks the position of the vise fence for proper workpiece alignment.

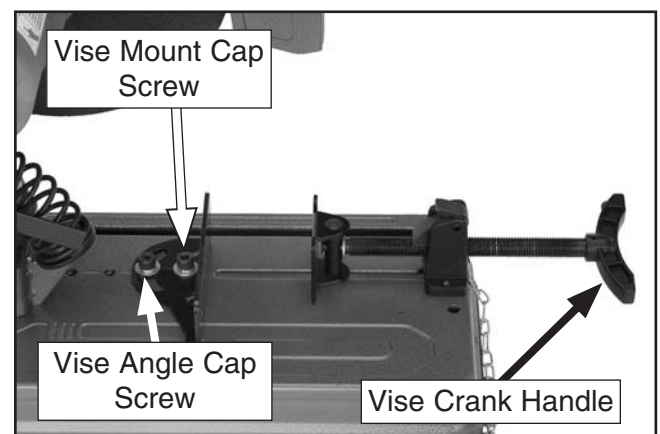


Figure 8. Vise controls.

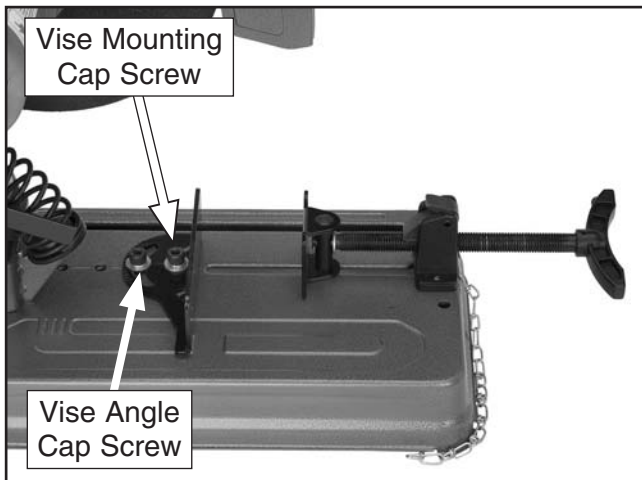


# Vise Fence

For optimal cutting results, the centerline of the blade must be directly over the centerline of the workpiece for optimal cutting results. The workpiece alignment is determined by the position of the vise fence. The angle of the vise fence determines the angle of the cut. Since the position and the angle of the fence are related, both must be adjusted at the same time.

## To set the vise fence position:

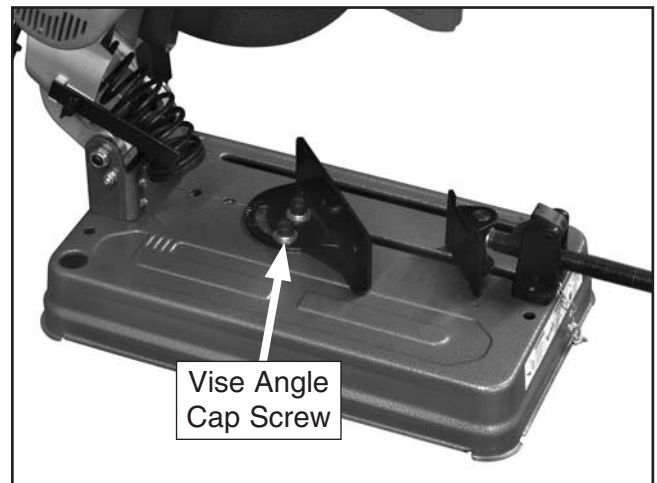
1. DISCONNECT SAW FROM POWER!
2. Remove the vise angle cap screw and the vise mounting cap screw (**Figure 9**).



**Figure 9.** Vise fence.

3. Place the workpiece against the vise fence, then using the scale as a guide, set the approximate desired angle of cut.

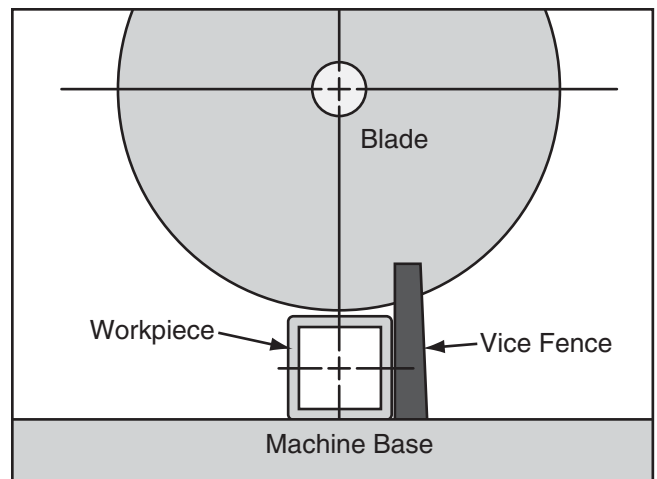
**Note:** If you are making 45° cuts, remove the vise angle cap screw and reposition it to the location shown in **Figure 10**. This will prevent any unwanted movement of the vise fence during tightening of the vise.



**Figure 10.** Cap screw positioned for 45° cuts.

4. While maintaining the angle of the vise fence, slide the fence along the base until the centerline of the workpiece is directly over the centerline of the saw (**Figure 11**).

**Note:** Because the centerline of the saw changes as the saw arm moves, it is necessary to lower the saw for proper alignment. Check for proper alignment periodically as you adjust the fence position.



**Figure 11.** Blade/workpiece alignment.

5. Slide the fence to the nearest mounting holes, then insert both cap screws. Double check that the vise fence is still set for the desired angle of cut, then tighten both cap screws.



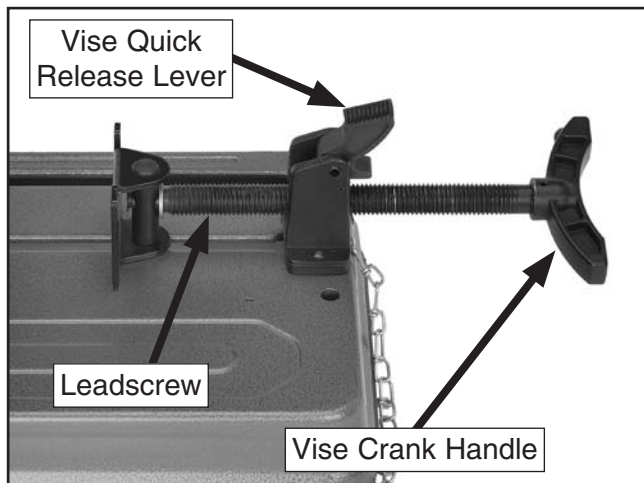
## Vise Quick Release

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The Model G0693 is equipped with a quick release on the vise leadscrew. This allows for rapid adjustments for a variety of workpiece dimensions.

### To use the vise quick release:

1. Lift the vise quick release lever. This releases the leadscrew and allows the vise clamp to slide as needed (**Figure 12**).



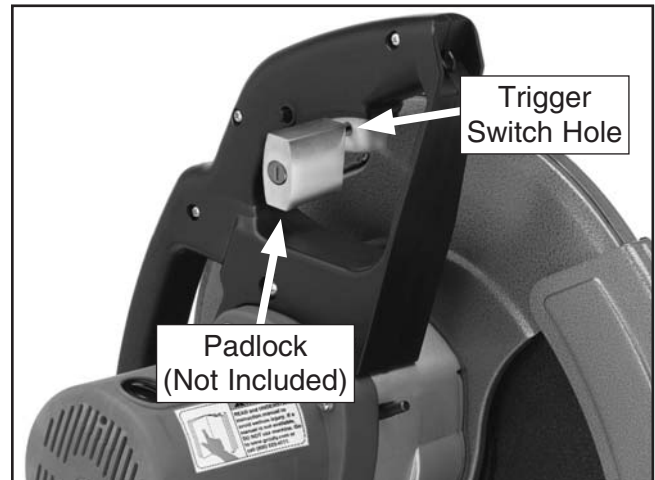
**Figure 12.** Vise quick release lever.

2. Slide the vise to the approximate location needed, then lower the vise quick release lever. This engages the leadscrew.
3. Use the vise crank handle to tighten and loosen the vise as needed.

## Switch Lock-out

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To prevent unauthorized use of the saw, it can be locked in the OFF position by placing a padlock through the hole in the trigger switch (**Figure 13**).



**Figure 13.** Switch lockout.

## Blade Feed Rate

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Blade feed rate refers to the speed with which the blade cuts through a workpiece. On the Model G0693, feed rate is controlled by the amount of pressure exerted on the handle by the user. Pulling hard on the lever will result in a faster feed rate, whereas only pulling lightly will result in a very slow feed rate.

Cutting with a feed rate that is too slow can result in lengthy, inefficient cuts, and workpiece over-heating.

Cutting with a feed rate that is too fast may cause excessive blade wear and will generate excess heat and cause the blade to wear quickly. When cutting small or thin-walled workpieces, the edges of the cut may become rough or torn.

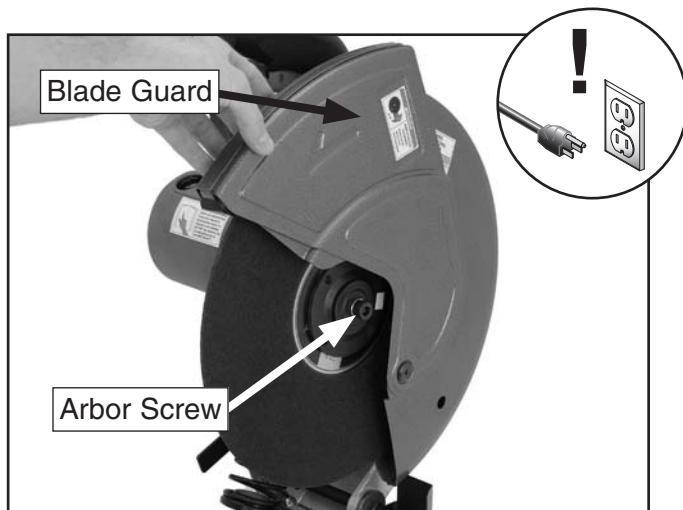


# Blade Changes

<b>Tools Needed:</b>	<b>Qty</b>
Hex Wrench 8mm.....	1

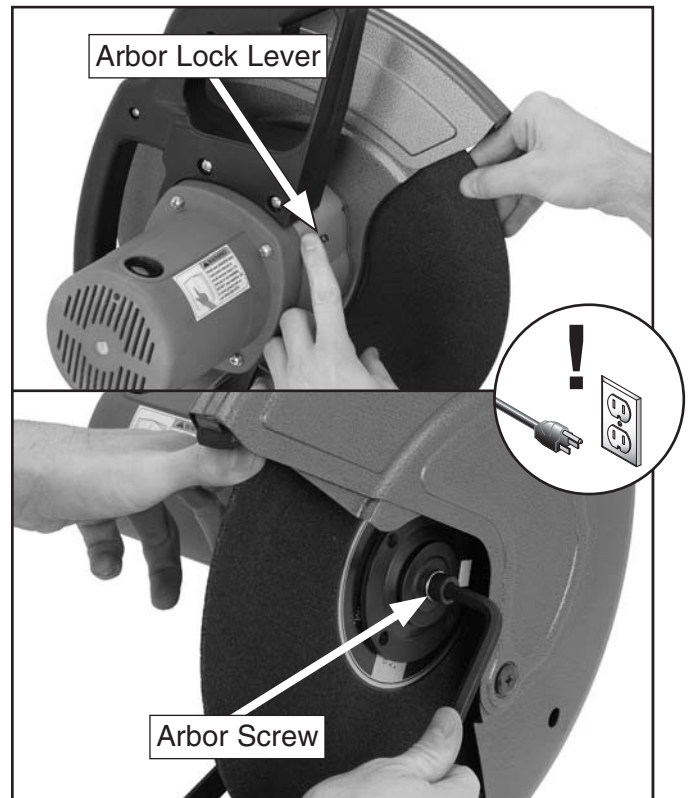
## To replace the blade:

1. DISCONNECT SAW FROM POWER!
2. Retract the blade guard, exposing the arbor screw, as shown in **Figure 14**.



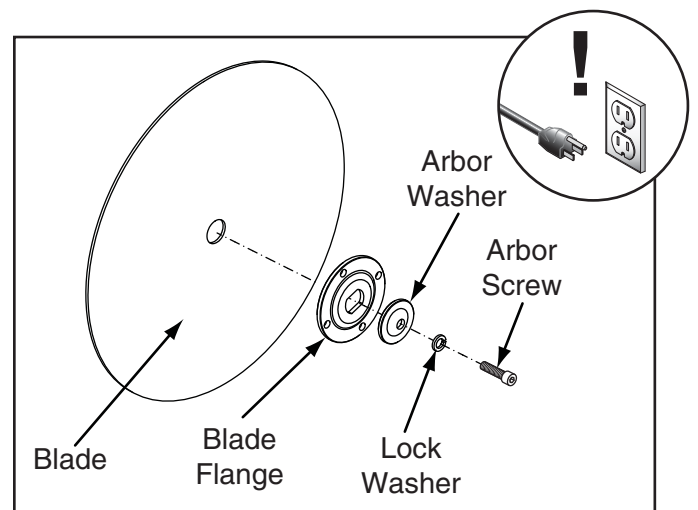
**Figure 14.** Blade guard retracted.

3. Lightly press the arbor lock lever towards the blade guard, and rotate the blade until the lever moves inward and locks the arbor. While holding the lever in, loosen the arbor screw (**Figure 15**).



**Figure 15.** Arbor screw removal.

4. Remove the arbor screw, lock washer, arbor washer, arbor flange, and the old blade (**Figure 16**).



**Figure 16.** Blade components.

5. Install the new blade, arbor flange, arbor washer, lock washer, and arbor screw in the reverse order from which they were removed. Use the arbor lock button to secure the arbor while tightening the arbor screw.
6. Return the blade guard to its normal position.



# Cutting Procedures

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After familiarizing yourself with the controls of the Model G0693, follow the basic outline below to perform safe and efficient cuts.

## **!WARNING**

**This machine creates a stream of sparks during operation. To reduce the risk of fire, remove any oily rags, waste baskets, or other combustibles from the work area**

### To make a cut:

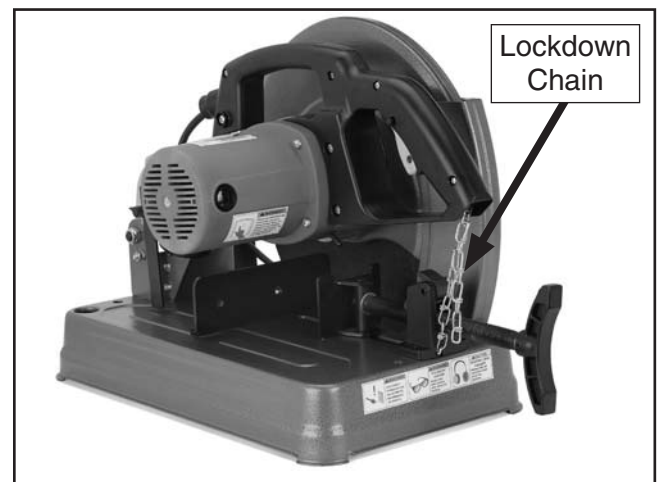
1. DISCONNECT SAW FROM POWER!
2. Set the vise fence position and angle (**Page 14**).
3. Clamp the workpiece in the vise.
4. Connect the saw to power
5. Put on proper eye protection and a respirator.
6. Press the trigger switch to start the blade and allow the blade to come to speed. Lower the blade into the workpiece. Use a controlled, steady force to complete the cut.

When the cut is completed, raise the saw, release the trigger, and allow the blade to come to a complete stop before proceeding.

# General Machine Tips

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- When the machine is not in use, raise the saw to reduce strain on the return spring.
- Inspect the machine regularly to keep it running in top condition.
- Clean, lubricate, and cover the machine before putting it into storage for extended periods of time.
- When transporting the machine, use the lockdown chain to secure the saw body in the down position (**Figure 17**).
- When you are finished cutting, inspect the area for any smoldering combustibles.



**Figure 17.** Transporting the G0693.

# Cutting Tips

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- Use even pressure while cutting. Heavy or irregular pressure can lead to poor cuts and damage the blade.
- Misusing the saw or using incorrect techniques is unsafe and results in poor cuts. Remember—the blade does the cutting with the operator's guidance.
- Use roller stands to support longer workpieces.



# SECTION 5: ACCESSORIES

T20917—Replacement Cut-Off Wheel for G0693

G7429—Cut-Off Wheel - Type 1 - 14" x 1/8"

G7403—Cut-Off Wheel - Type 1 - 14" x 3/32"

H7078—Abrasive Cut-Off Wheel - 5 pk.

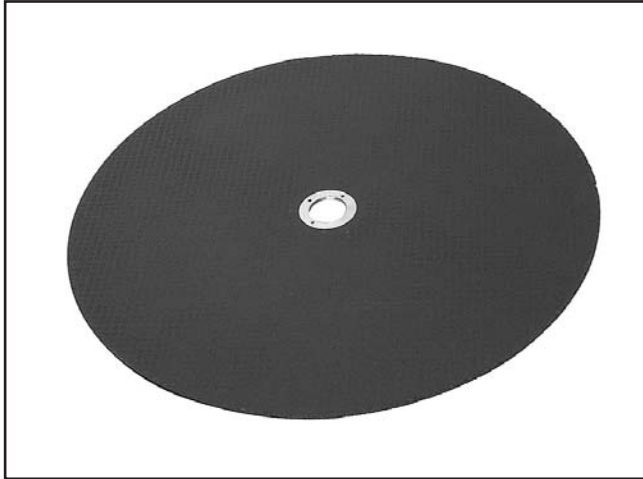


Figure 18. Replacement 14" Abrasive Wheels.

**G8983—Tilting Roller Stand**

Adjusts from 26" to 44", 0°-45°. 150 lb. capacity.

**G8984—Single Roller Stand**

Adjusts from 26 5/8" to 45". 250 lb. capacity.

**G8985—5 Roller Stand**

Adjusts from 26" to 44 5/8". 250 lb. capacity.

These super heavy-duty roller stands feature convenient hand knobs for fast height adjustment.



Figure 19. SHOP FOX® Roller Stands.

T20501—Face Shield Crown Protector 4"

T20502—Face Shield Crown Protector 7"

T20503—Face Shield Window

T20448—Economy Clear Safety Glasses

T20452—"Kirova" Anti-Reflective Glasses

T20456—"Dakura" Clear Safety Glasses

H0736—Shop Fox® Safety Glasses

These glasses meet ANSI Z87.1-2003 specifications. Buy extras for visitors or employees. You can't be too careful with shop safety!



Figure 20. Our most popular eye protection.

**G7313—700 lb Capacity SHOP FOX® Stand**

A perfect stand for mounting your smaller machines on. Sturdy and rugged for everyday shop use.



Figure 21. G7313 SHOP FOX® Stand.

Call 1-800-523-4777 To Order

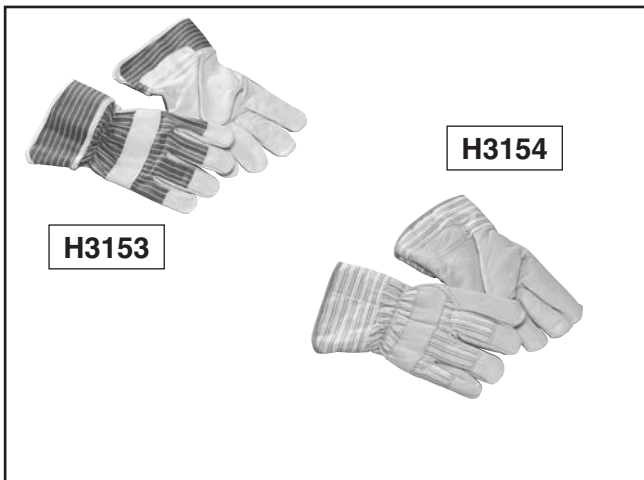


**G5618—Deburring Tool w/2 Blades**  
**G5619—Extra Aluminum Blades**  
**G5620—Extra Brass and Cast Iron Blade**  
 The quickest tool for smoothing freshly machined metal edges. Comes with two blades, one for steel and aluminum and one for brass and cast iron.



**Figure 22.** G5618 Deburring tool.

**H3153—Pigskin Palm Gloves**  
**H3154—Lined Pigskin Palm Gloves**  
 Durable pigskin leather is combined with cloth backs for true comfort. One size fits many.



**Figure 23.** Work gloves.

**Call 1-800-523-4777 To Order**

**H8003—Hydraulic Lifting Table - 450 lbs.**  
 This rugged and affordable lifting table allows you to lift stacks of sheet goods right up to the saw with minimal effort. Features 39<sup>3</sup>/<sub>8</sub>" x 19<sup>3</sup>/<sub>4</sub>" table, 39<sup>1</sup>/<sub>2</sub>" maximum table height, 8" fixed and swivel casters with brakes.



**Figure 24.** Model H8003 Hydraulic Lifting Table.

**T20514—Small Half-Mask Respirator**  
**T20515—Medium Half-Mask Respirator**  
**T20516—Large Half-Mask Respirator**  
**T20511—Pre-Filter P100**  
**T20539—Cartridge Filter 2PK P100**  
**T20541—Cartridge Filter 2PK P100 & O Vapor**  
 Wood and other types of dust can cause severe respiratory damage. If you work around dust every day, a half-mask respirator can greatly reduce your risk. Compatible with safety glasses!



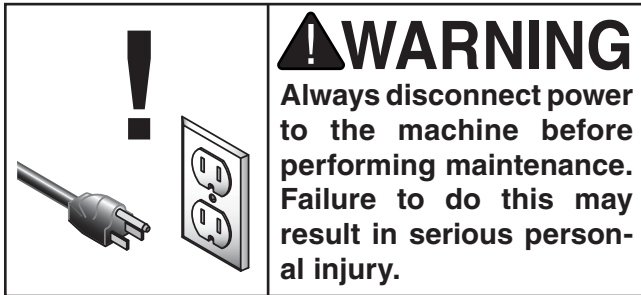
**Figure 25.** Half-mask respirator with disposable cartridge filters.



# SECTION 6: MAINTENANCE

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## Schedule

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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/screws/nuts.
- Damaged or worn saw blade.
- Proper function of blade guard.
- Any other unsafe condition.
- General cleanup to prevent buildup of metal shavings.

### Weekly Maintenance:

- Clean the machine thoroughly, including removing shavings.
- Clean/grease the vise leadscrew.

## Cleaning

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Cleaning the Model G0693 is relatively easy. Vacuum excess metal chips and wipe off the remaining debris and residue with a dry cloth.

## Lubrication

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### Vise Leadscrew

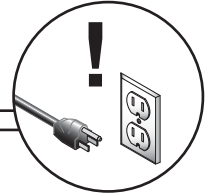
1. DISCONNECT SAW FROM POWER!
2. Use a stiff-bristled brush and mineral spirits or other degreaser to thoroughly clean the vise leadscrew.
3. Apply multipurpose grease to the leadscrew and completely open and close the vise several times to distribute the grease.



# 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	Corrective Action
Machine does not start or a breaker trips.	<ol style="list-style-type: none"> <li>1. Power supply is at fault.</li> <li>2. Wall fuse/circuit breaker is blown/tripped.</li> <li>3. Wiring is open/has high resistance.</li> <li>4. Trigger switch is at fault.</li> <li>5. Motor brushes at fault.</li> <li>6. Plug/receptacle is at fault or wired incorrectly.</li> <li>7. Motor is at fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure power supply is switched <b>ON</b>.</li> <li>2. Repair for short, reset or replace fuse or breaker.</li> <li>3. Check for broken wires or disconnected/corroded connections, and repair/replace as necessary.</li> <li>4. Replace faulty trigger switch.</li> <li>5. Motor brushes at fault.</li> <li>6. Test for good contacts; correct the wiring.</li> <li>7. Test/repair/replace.</li> </ol>
Machine stalls or is overloaded.	<ol style="list-style-type: none"> <li>1. Feed pressure too great for task.</li> <li>2. Motor brushes at fault.</li> <li>3. Motor is at fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Decrease feed pressure.</li> <li>2. Replace motor brush set.</li> <li>3. Test/repair/replace.</li> </ol>
Machine has vibration or noisy operation.	<ol style="list-style-type: none"> <li>1. Motor or component is loose.</li> <li>2. Motor mount loose/broken.</li> <li>3. Machine sits unevenly.</li> <li>4. Motor bearings are at fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect/replace stripped or damaged bolts/nuts, and re-tighten with thread locking fluid.</li> <li>2. Tighten/replace.</li> <li>3. Relocate/shim machine.</li> <li>4. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.</li> </ol>

### Operations

Symptom	Possible Cause	Corrective Action
Premature blade wear.	<ol style="list-style-type: none"> <li>1. Feed pressure is too high.</li> <li>2. Incorrect blade/machine for material type.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce feed pressure.</li> <li>2. Choose the correct blade/machine for the material type.</li> </ol>
Vibration when cutting.	<ol style="list-style-type: none"> <li>1. Blade is damaged.</li> <li>2. Workpiece is not secured in vise.</li> <li>3. Cross section of workpiece is too large.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect/replace blade.</li> <li>2. Secure workpiece.</li> <li>3. Adhere to maximum cutting capacities for this machine.</li> </ol>
Blade sticks in cut.	<ol style="list-style-type: none"> <li>1. Cutting pressure is too high.</li> <li>2. Waste material buildup on blade.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce feed pressure.</li> <li>2. Clean blade.</li> </ol>
Blade is chipped or is out of round.	<ol style="list-style-type: none"> <li>1. Feed speed/pressure too high.</li> <li>2. Blade was in contact with the workpiece when machine was turned <b>ON</b>.</li> <li>3. Blade allowed to hop during cut.</li> <li>4. Workpiece shifted in vise.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce feed speed/pressure.</li> <li>2. Never start the blade in contact with the workpiece.</li> <li>3. Allow blade to enter workpiece in a slow and controlled manner, follow through with a smooth and even pressure.</li> <li>4. Be sure workpiece is properly clamped before starting cut.</li> </ol>



# 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



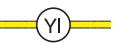


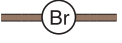




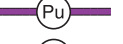
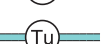



### Wiring Safety Instructions

- 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!
- QUALIFIED ELECTRICIAN.** Due to the inherent hazards of electricity, only a qualified electrician should perform wiring tasks on this machine. If you are not a qualified electrician, get help from one before attempting any kind of wiring job.
- 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.
- 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 before completing the task.
- MODIFICATIONS.** Using aftermarket parts or modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire.
- MOTOR WIRING.** The motor wiring shown in these diagrams is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.
- CAPACITORS.** Some capacitors store an electrical charge for up to five minutes after being disconnected from the power source. To avoid being shocked, wait at least this long before working on capacitors.
- CIRCUIT REQUIREMENTS.** You MUST follow the requirements on **Page 9** when connecting your machine to a power source.
- 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](http://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



View this page in color at [www.grizzly.com](http://www.grizzly.com).



⚠ WARNING!

**SHOCK HAZARD!**  
Disconnect power before working on wiring.



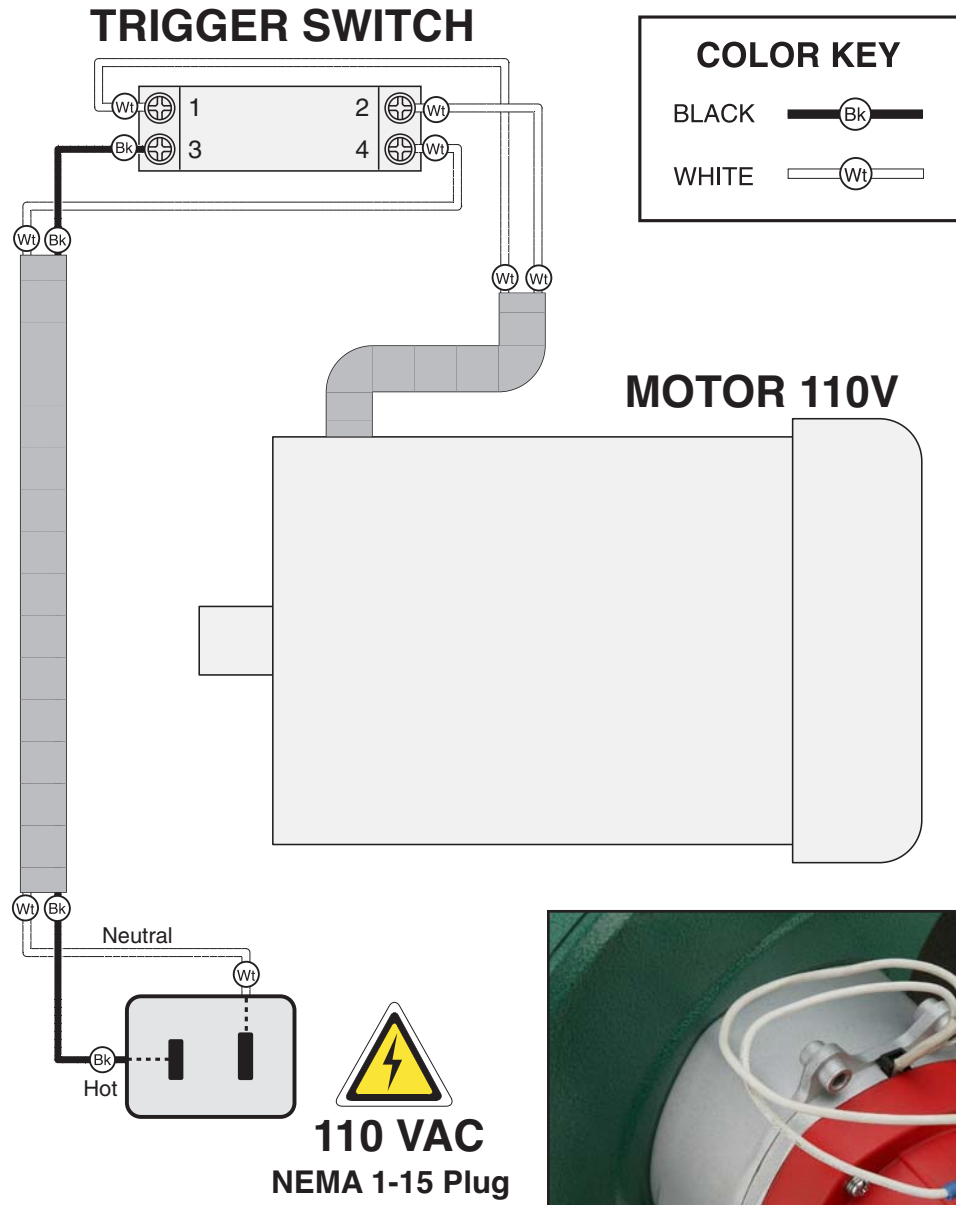
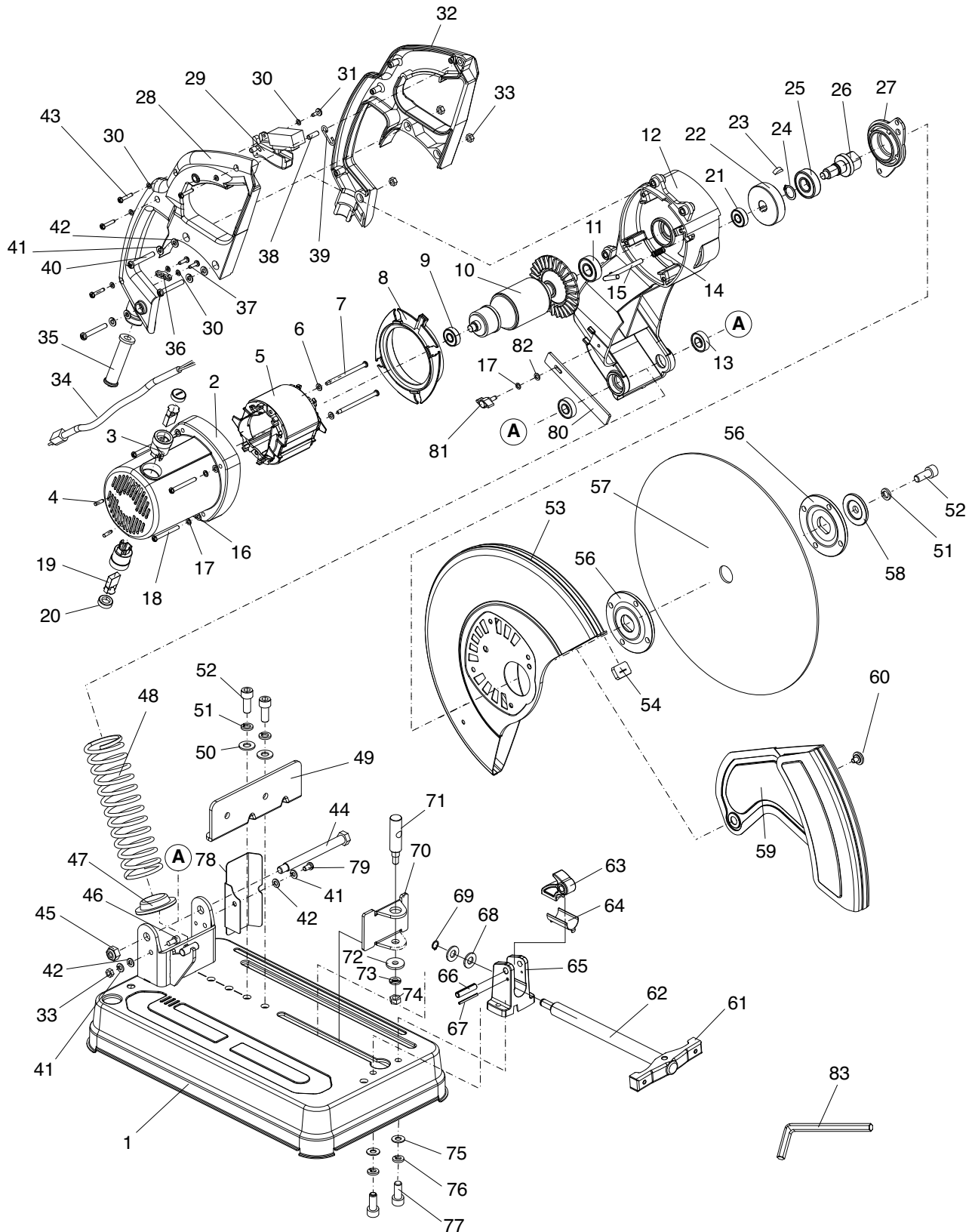


Figure 26. Wiring.



# SECTION 9: PARTS

## Parts Breakdown



# Parts List

REF	PART #	DESCRIPTION
1	P0693001	BASE
2	P0693002	MOTOR HOUSING
3	P0693003	BRUSH HOLDER
4	PS09M	PHLP HD SCR M5-.8 X 10
5	P0693005	STATOR
6	PTLW02M	EXT TOOTH WASHER 5MM
7	PHTEK41M	TAP SCREW M5 X 70
8	P0693008	FAN GUIDE
9	P6000LLB	BALL BEARING 6000LLB
10	P0693010	ROTOR
11	P6202LLB	BALL BEARING 6202LLB
12	P0693012	GEAR HOUSING
13	P6001LLB	BALL BEARING 6001LLB
14	P0693014	COMPRESSION SPRING
15	P0693015	LOCK PIN
16	PW02M	FLAT WASHER 5MM
17	PLW01M	LOCK WASHER 5MM
18	PS100M	PHLP HD SCR M5-.8 X 40
19	P0693019	BRUSH SET
20	P0693020	BRUSH CAP
21	P6000LLB	BALL BEARING 6000LLB
22	P0693022	HELICAL GEAR
23	P0693023	WOODRUFF KEY 5 X 13
24	PR07M	EXT RETAINING RING 18MM
25	P6203LLB	BALL BEARING 6203LLB
26	P0693026	SPINDLE
27	P0693027	BEARING CASE
28	P0693028	LEFT HANDLE
29	P0693029	SWITCH
30	PW05M	FLAT WASHER 4MM
31	PHTEK39M	TAP SCREW M4 X 12
32	P0693032	RIGHT HANDLE
33	PN01M	HEX NUT M6-1
34	P0693034	POWER CORD 110V 8'
35	P0693035	CORD GUARD
36	P0693036	STRAIN RELIEF
37	PHTEK31M	TAP SCREW M4 X 14
38	P0693038	ANCHOR PIN
39	P0693039	HANGER
40	PS81M	PHLP HD SCR M6-1 X 40
41	PLW03M	LOCK WASHER 6MM

REF	PART #	DESCRIPTION
42	PW03M	FLAT WASHER 6MM
43	PHTEK28M	TAP SCREW M4 X 25
44	P0693044	SHOULDER PIVOT BOLT
45	PLN09M	LOCK NUT M12-1.75
46	PB18M	HEX BOLT M6-1 X 15
47	P0693047	RUBBER SEAT
48	P0693048	COMPRESSION SPRING
49	P0693049	FENCE GUIDE
50	PW04M	FLAT WASHER 10MM
51	PLW06M	LOCK WASHER 10MM
52	PSB64M	CAP SCREW M10-1.5 X 25
53	P0693053	WHEEL COVER
54	P0693054	BRUSH COVER
56	P0693056	FLANGE
57	T20917	ABRASIVE WHEEL 355 X 3 X 25.4MM
58	P0693058	CLAMP WASHER
59	P0693059	SWITCH COVER
60	P0693060	SHOULDER SCREW M5-.8 X 12
61	P0693061	WISE HANDLE
62	P0693062	LEAD SCREW
63	P0693063	LOCK
64	P0693064	SADDLE
65	P0693065	ANCHOR BASE
66	PRP104M	ROLL PIN 8 X 35
67	PRP69M	ROLL PIN 3 X 35
68	P0693068	WEAR COLLAR
69	PR01M	EXT RETAINING RING 10MM
70	P0693070	JAW
71	P0693071	PIVOT PIN
72	PW04M	FLAT WASHER 10MM
73	PLW06M	LOCK WASHER 10MM
74	PN02M	HEX NUT M10-1.5
75	PW01M	FLAT WASHER 8MM
76	PLW04M	LOCK WASHER 8MM
77	PSB76M	CAP SCREW M8-1.25 X 18
78	P0693078	SPARK CHUTE
79	PS68M	PHLP HD SCR M6-1 X 10
80	P0693080	STOP ARM
81	P0693081	THUMB SCREW M5-.8 X 12
82	PW02M	FLAT WASHER 5MM
83	PAW08M	HEX WRENCH 8MM



# Warning Labels

101

<b>Grizzly Industrial</b>		<b>MODEL G0693 14" METAL CUTTING ABRASIVE SAW</b>
<b>Specifications</b>		<b>⚠ WARNING!</b>
Motor: 4 HP, 110V, Single-Phase Blade Speed: 3000 RPM Blade Arbor Size: 1 1/2" / 1" Angle Cuts: 45° To 90° Maximum Cutting Capacities: @90°: Round: 4-1/2" Square: 4-1/2" Rectangular: 2-3/4" X 8-1/2" @45°: Round: 4-1/2" Square: 4-1/2" Rectangular: 3-1/8" X 3-1/4" Weight: 37 Lbs.		To reduce the risk of serious personal injury while using this machine: 1. Read and understand manual before starting. 2. Always wear eye protection. 3. Plug power cord into grounded outlet only. 4. Never position fingers in line with cut. 5. Completely support workpiece when cutting. 6. Do not wear loose clothing, gloves or jewelry, and secure long hair to avoid entanglement. 7. Keep all guards in place at all times. 8. Disconnect power before setup or adjustment. 9. Do not operate near flammables. 10. Do not operate under the influence of drugs or alcohol.
_____ Date _____ Serial Number	Manufactured for Grizzly in Taiwan	

100

**⚠ WARNING!**  
 READ and UNDERSTAND instruction manual to avoid serious injury. If a manual is not available, DO NOT use machine. Go to [www.grizzly.com](http://www.grizzly.com) or call (800) 523-4777.

102

**⚠ DANGER**  
**AMPUTATION HAZARD!**  
 Keep hands away from moving blade!

**⚡**  
 Next to Power Cord  
 104

103

<p><b>⚠ WARNING!</b>                  DISCONNECT POWER BEFORE ADJUSTMENTS, MAINTENANCE, OR SERVICE.</p>	<p><b>⚠ WARNING</b>                  EYE/EARING INJURY HAZARD!                  Always wear safety glasses and a respirator when using this machine</p>	<p><b>⚠ CAUTION</b>                  HEARING LOSS HAZARD!                  Always wear ear protection when using this machine!</p>
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REF	PART #	DESCRIPTION
100	P0693100	READ MANUAL LABEL
101	P0693101	MACHINE ID LABEL
102	P0693102	AMPUTATION LABEL

REF	PART #	DESCRIPTION
103	P0693103	COMBO WARNING LABEL
104	PLABEL-14B	ELECTRICITY LABEL

## ⚠ WARNING

Safety labels warn about machine hazards and ways to prevent injury. The owner of this machine **MUST** maintain the original location and readability of the labels on the machine. If any label is removed or becomes unreadable, **REPLACE** that label before using the machine again. Contact Grizzly at (800) 523-4777 or [www.grizzly.com](http://www.grizzly.com) to order new labels.





# WARRANTY CARD

Name \_\_\_\_\_

Street \_\_\_\_\_

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

Phone # \_\_\_\_\_ Email \_\_\_\_\_ Invoice # \_\_\_\_\_

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
- Card Deck
- Friend
- Website
- Catalog
- Other:

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

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

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: \_\_\_\_\_

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CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE

\_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_



Place Stamp Here



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



FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

Name \_\_\_\_\_
Street \_\_\_\_\_
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

# WARRANTY 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 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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