

MODEL G9743 7"x 12" GEAR HEAD METAL-CUTTING BANDSAW

OWNER'S MANUAL



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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.



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

Foreword

We are proud to offer the Model G9743 7" x 12" Gear Head Metal-Cutting Bandsaw. This machine is part of a growing Grizzly family of fine metalworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

We are pleased to provide this manual with the Model G9743. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible.

The specifications, drawings, and photographs illustrated in this manual represent the Model G9743 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at www. grizzly.com. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual!

Contact Info

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

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

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

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





Product Dimensions:

MACHINE DATA SHEET

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

MODEL G9743 7" X 12" GEARED HEAD METAL-CUTTING BANDSAW

Product Dimensions:	
Weight	
Width (side-to-side) x Depth (front-to-back) x Height	56 x 17-1/4 x 59 in.
Footprint (Length x Width)	40 x 16-3/8 in.
Shipping Dimensions:	
Type	Wood Slat Crate
Content	
Weight	
Length x Width x Height	26 x 57 x 46 in.
Must Ship Upright	Yes
Electrical:	
Power Requirement	110V or 220V, Single-Phase, 60 Hz
Prewired Voltage	110V
Full-Load Current Rating	18.6A at 110V, 9.3A at 220V
Minimum Circuit Size	20A at 110V, 15A at 220V
Connection Type	Cord & Plug
Power Cord Included	
Power Cord Length	
Power Cord Gauge	
Plug Included	
Included Plug Type	
Recommended Plug Type	
Switch Type	Sealed Toggle Switch W/Automatic Shut-Off
Motors:	
Coolant Pump	
Horsepower	53W
Phase	
Amps	0.6A/0.3A
Speed	3440 RPM
Туре	
Power Transfer	Direct Drive
Bearings	Sealed & Permanently Lubricated
Main	
Horsepower	1.5 HP
Phase	
Amps	9
Speed	
Type	
Power Transfer	
Bearings	Shielded & Permanently Lubricated



Main Specifications:

Operation Info

Blade Speeds	150 010 000 EDM
Std. Blade Length	
Blade Size Range	
Cutting Capacities	
Angle Cuts	45 - 90 dea
Vise Jaw Depth	
Vise Jaw Height	
Max. Capacity Rectangular Height at 90 Deg	
Max. Capacity Rectangular Width at 90 Deg	
Max. Capacity Round at 90 Deg	
Max. Capacity Rectangular Height at 30 Deg	
Max. Capacity Rectangular Width at 30 Deg	
Max. Capacity Round at 30 Deg	
Max. Capacity Rectangular Height at 45 Deg	
Max. Capacity Rectangular Width at 45 Deg	
Max. Capacity Round at 45 Deg	
Construction	
Table	Precision Ground Cast Iror
Upper Wheel	Machined Cast Iror
Lower Wheel	
Body	
Base	Formed and Welded Steel with Coolant Sump
Wheel Cover	
Paint Type/Finish	
Other	
Other Wheel Size	7-1/2 in
Wheel Size	
Wheel SizeBlade Guides Upper	Adjustable Carbide
Wheel Size	Adjustable Carbide
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Wheel Size	Adjustable Carbide Adjustable Carbide 1-1/2 GAl 1-1/2 GAl 18 in 7-3/4 in 21-5/8 in Taiwar 1 Yea 45 Minutes
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Identification

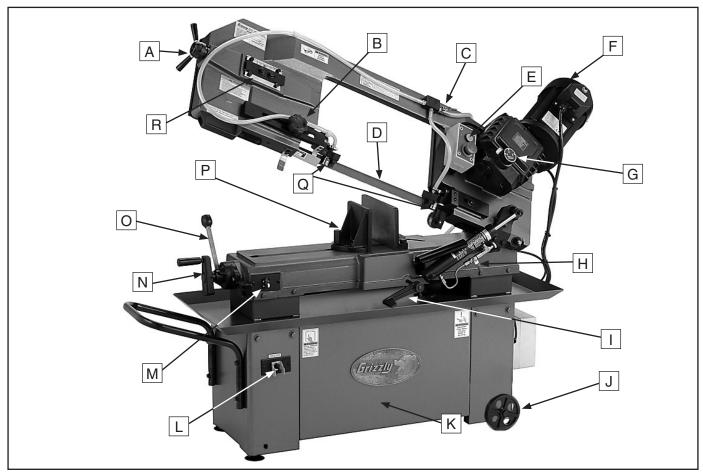


Figure 1. Main view of machine features.

- A. Blade Tension Handle
- B. Guide Post Adjustment Knob
- C. Coolant Control Valve
- **D.** Blade
- E. ON/OFF Switch
- F. 1½ HP Motor
- G. Speed Control Knob
- H. Feed Rate ON/OFF Valve
- I. Workstop

- J. Wheels
- K. Bandsaw Stand
- L. Pump Toggle Switch
- M. Limit Switch
- N. Handwheel
- O. Positive Locking Handle
- P. Vise
- Q. Blade Guides
- R. Blade Tracking Controls



SECTION 1: SAFETY

AWARNING

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 which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



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

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

ACAUTION

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.

AWARNING Safety Instructions for Machinery

- 1. READ THROUGH 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 AN NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.

- 4. ALWAYS USE HEARING PROTECTION WHEN **OPERATING** MACHINERY. Machinery noise can cause permanent hearing damage.
- 5. WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught 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.



AWARNING Safety Instructions for Machinery

- ONLY ALLOW TRAINED AND PROP-ERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY. Make sure operation instructions are safe and clearly understood.
- KEEP CHILDREN AND VISITORS AWAY.
 Keep all children and visitors a safe distance from the work area.
- MAKE WORKSHOP CHILD PROOF. 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 LIT. Clutter and dark shadows may cause accidents.
- 13. USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE. Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
- 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 and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
- 19. USE RECOMMENDED ACCESSORIES.
 Refer to the instruction manual for recommended accessories. The use of improper accessories may cause 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.** Keep proper footing and balance at all times.
- 23. MANY MACHINES WILL EJECT THE WORKPIECETOWARDTHEOPERATOR. Know and avoid conditions that cause the workpiece to "kickback."
- 24. ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
- 25. BE AWARE THAT CERTAIN MATERIALS MAY CAUSE AN ALLERGIC REACTION in people and animals, especially when exposed to fine dust. Make sure you know what type of dust you will be exposed to and always wear an approved respirator.



AWARNING

Safety Instructions for Metal Cutting Bandsaws

- BLADE CONDITION. Do not operate with dull, cracked or badly worn blade. Inspect blades for cracks and missing teeth 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 bandsaw 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, make sure teeth face toward the workpiece. Wear gloves to protect hands and safety glasses to protect eyes.
- 5. 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.
- 6. LOSS OF STABILITY. Unsupported workpieces may jeopardize machine stability and cause the machine to tip and fall which could cause serious injury.
- 7. **POWER INTERRUPTION.** Unplug machine after power interruption. Machines without magnetic switches can start up after power is restored.

- 8. FIRE HAZARD. Use EXTREME CAUTION if cutting magnesium. Using the wrong cutting fluid will lead to a chip fire and possible explosion.
- CUTTING FLUID SAFETY. Always follow manufacturer's cutting-fluid safety instructions. Pay particular attention to contact, contamination, inhalation, storage and disposal warnings. Spilled cutting fluid invites slipping hazards.
- 10. 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.
- 11. 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.
- 12. 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.
- **13. HOT SURFACES.** Contact with hot surfaces from machine components, ejections of hot chips, swarf and workpiece can cause burns.

AWARNING

No list of safety guidelines can be complete. Every shop environment is different. Like all machines there is danger associated with the Model G9743. 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

110/220V 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 grounded and installed in compliance with electrical codes. Compliance MUST be verified by a qualified electrician!

NOTICE

The Model G9743 is prewired for 110V operation. If you plan to operate your machine at 220V, the motor must be rewired (see Page 33).

Full Load Amperage Draw

Amp Draw	at 110V	(prewired)23	Amps
Amp Draw	at 220V	11.5	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 Circ	uit Size	(110V)	25	Amps
Minimum Circ	uit Size	(220V)	15	Amps

Power Connection Device

The **Model** G9743 comes prewired with a NEMA 5-15 plug for connection to power. If you rewire the motor to 220V, we recommend using the plug and receptacle shown in **Figure 2** for 220V.

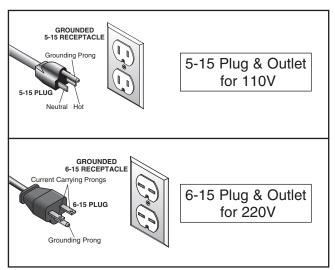


Figure 2. Recommended plug types.

Extension Cords

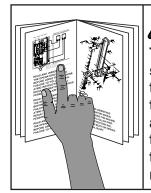
Using extension cords may reduce the life of the motor. Instead, place the machine near a power source. If you must use an extension cord:

- For 110V, use at least a 12 gauge cord that does not exceed 50 feet in length.
- For 220V, use at least a 14 gauge cord that does not exceed 50 feet in length.
- The extension cord must have a ground wire and plug pin.



SECTION 3: SET UP

Set Up Safety



AWARNING

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 set up process!



WARNING

The Model G9743 is a heavy machine. DO NOT over-exert yourself while unpacking or moving your machine—get assistance.

Items Needed for Set Up

The following items are needed to complete the set up process, but are not included with your machine:

Des	scription	Qty
•	Wrench 12mm	1
•	Wrench 14mm	1
•	Safety Glasses (for each person)	1
•	Another Person	1
•	Phillips Head Screwdriver #2	1

Unpacking

The Model G9743 was carefully packed when it left our warehouse. If you discover the machine is damaged after you have signed for delivery, please immediately call Customer Service at (570) 546-9663 for advise.

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

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



Inventory

After all the parts have been removed from the box, you should have the following items:

Bo	x Contents (Figure 3)	Qty
Me	tal-Cutting Bandsaw (not shown)	1
Α.	Handle	1
В.	Feet	2
C.	Wheel	2
D.	Work Stop	1
E.	Work Stop Leaf Bolt	1
E.	Work Stop Rod	1
G.	Axle	
H.	Hardware Bag	Qty
	—Flat Washer 5/8" (Wheels)	
	—Cotter Pin 3 x 25mm (Wheels)	
	—Foot (Cabinet)	
	—Hex Nut 1/2"-12 (Feet)	2
	—Hex Nut 5/16"-18 (Handle)	
	—Flat Washer 5/16" (Handle)	
	—Hex Bolt 5/16"-18 x 11/2" (Handle)	

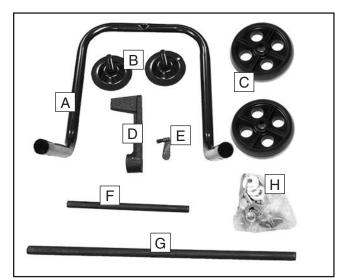
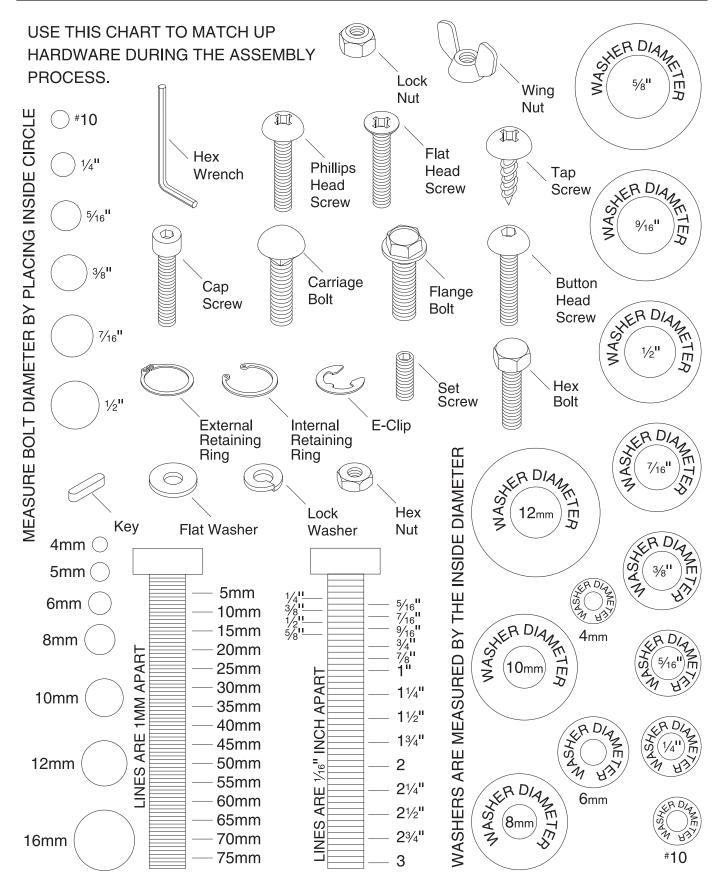


Figure 3. Loose parts inventory.



Hardware Recognition Chart



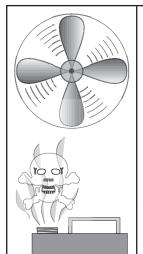
Clean Up

The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove this protective coating with a solvent cleaner or citrus-based degreaser such as Grizzly's G7895 Degreaser. To clean thoroughly, some parts may need to be removed. For optimum performance from your machine, make sure you clean all moving parts or sliding contact surfaces that are coated. Avoid chlorine-based solvents, such as acetone or brake parts cleaner, as they may damage painted surfaces should they come in contact. Always follow the manufacturer's instructions when using any type of cleaning product.



WARNING

Gasoline and petroleum products have low flash points and could cause an explosion or fire if used to clean machinery. DO NOT use gasoline or petroleum products to clean the machinery.



CAUTION

Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Lack of ventilation while using these solvents could cause serious personal health risks or fire. Take precautions from this hazard by only using cleaning solvents in a well ventilated area.

Site Considerations

Floor Load

The weight and footprint size for your machine is located in the machine data sheet. Most floors are suitable for your machine. Some residential floors may require additional reinforcement to support both the machine and operator.

Working Clearances

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your new machine. See **Figure 4** for the minimum working clearances.

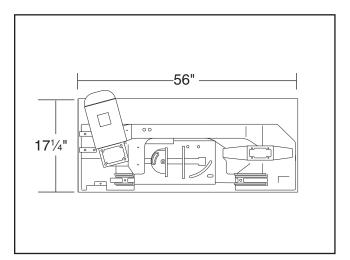
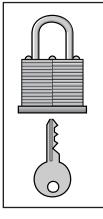


Figure 4. Minimum G9743 working clearances.



ACAUTION

Unsupervised children and visitors inside your shop could cause serious personal injury to themselves. Lock all entrances to the shop when you are away and DO NOT allow unsupervised children or visitors in your shop at any time!



Shipping Bracket

A shipping bracket has been installed on the bandsaw to protect the alignment of the head-stock during shipment. After removal, store the bracket in a safe place until you need to move or ship the bandsaw in the future.

To remove the shipping bracket:

1. Use a 12mm wrench to remove the top hex bolt and flat washer, use a 14mm wrench to loosen the bottom hex nut and remove the shipping bracket shown in **Figure 5**.

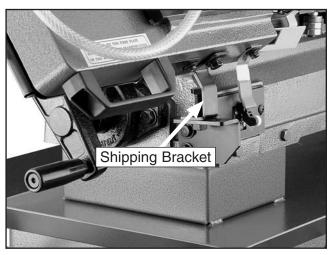


Figure 5. Removing shipping bracket.

Work Stop

Components and Hardware Needed:	Qty
Work Stop	1
Work Stop Rod	1
Thumb Screw	1

To install the work stop:

1. Insert the work stop rod through the hole in the base shown in **Figure 6** and lock in place with the hex bolt.

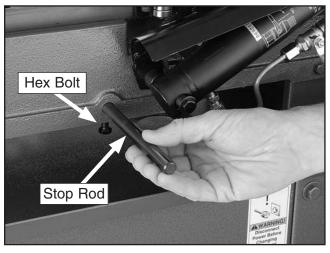


Figure 6. Installing work stop rod.

Thread the thumb screw into the work stop and slide the work stop over the rod as shown in Figure 7.

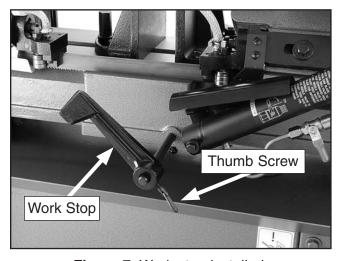


Figure 7. Work stop installed.

Tighten the thumbscrew.



Handle

Components and Hardware Needed:	Qty
Handle	1
Hex Nut 5/16"-18	4
Flat Washer 5/16"	8
Hex Bolt 5/16"-18 x 11/6"	4

To install the handle:

Position the handle onto the end of the cabinet as shown and fasten it in place with the four hex bolts, eight flat washers, and four hex nuts (**Figure 8**).



Figure 8. Handle installed.

Wheels and Feet

Components and Hardware Needed:	Qty
Wheels	2
Axle	1
Cotter Pins 3 x 25	2
Flat Washers 5/8"	4
Hex Nut ½"-12	2
Foot	2

To install the wheels and feet:

1. Insert the axle into the cabinet (Figure 9).

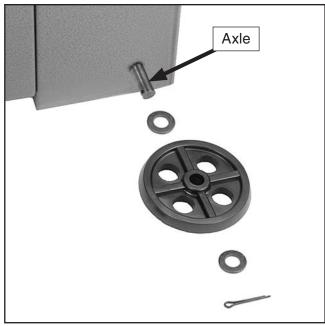


Figure 9. Installing wheel.

- 2. Position a 5/8" flat washer on each side of each wheel and slide the wheel onto the axle end.
- 3. Install the cotter pin into the end of the axle to hold the wheel on.
- **4.** Install the remaining wheel in the same manner.
- 5. Thread on one $\frac{1}{2}$ "-12 hex nut onto each foot.
- **6.** At the handle-end of the cabinet (**Figure 8**), thread each foot into the cabinet and tighten the hex nuts to lock the feet into place.



Test Run



AWARNING

Projectiles thrown from the machine could cause serious eye injury. Wear safety glasses during assembly and operation.

Starting the machine:

- 1. Read the entire instruction manual.
- **2.** Make sure all tools and foreign objects have been removed from the machine.
- **3.** Put on safety glasses and secure loose clothing or long hair.
- 4. Connect the bandsaw to power.
- 5. Raise the bandsaw and close the feed ON/ OFF valve to keep the saw in place (see Figure 10).

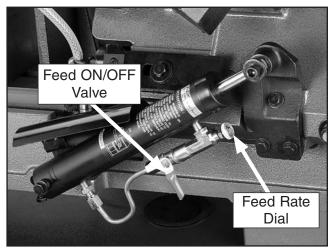


Figure 10. Feed ON/OFF valve and feed rate dial.

6. Start the bandsaw while keeping your finger near the ON/OFF switch at all times during the test run (Figure 11). The bandsaw should run smoothly with little or no vibration. **Note:** If the EMERGENCY STOP button is pressed, it needs to be twisted until it pops out or the bandsaw will not start.

- —If you suspect any problems, immediately stop the bandsaw and correct before continuing.
- —If you need any help with your bandsaw call our Tech Support at (570) 546-9663.

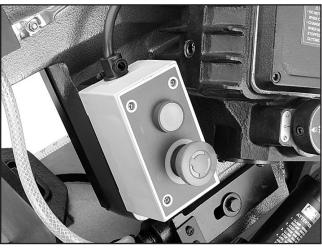


Figure 11. ON/OFF switch.

Recommended Adjustments

The adjustments listed below have been performed at the factory. However, because of the many variables involved with shipping, we recommend that you at least verify the following adjustments to ensure accurate cutting results.

Step-by-step instructions on verifying these adjustments can be found in **SECTION 7: SERVICE ADJUSTMENTS.**

Factory adjustments that should be verified:

- 1. Blade Tracking (Page 30).
- 2. Squaring the Blade (Page 31).
- 3. Blade Guide Bearings (Page 32).



SECTION 4: OPERATIONS

Operation Safety

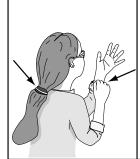
AWARNING

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









AWARNING

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing and long hair away from moving machinery.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY REC-OMMEND that you read books, 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.

Vise

The vise on the Model G9743 has a positive locking feature that improves productivity by opening the vise jaws just enough to slide material through.

To use the positive lock:

- 1. Raise the headstock above the workpiece and lock in place.
- 2. Place the vise handle in the half open position (45°). See **Figure 12**.
- **3.** Place the workpiece between the jaws and turn the handwheel until the rear jaw makes contact with the workpiece.
- **4.** Push the positive lock handle down to the lock position (0°). As you do this you will feel the handle tighten against the workpiece (see **Figure 12**).
- **5.** To loosen the workpiece, lift the vise handle to the fully open position (90°).
- 6. Slide the stock to the workstop for your next cut. The vise position will not change as long as you don't change the position of the vise jaws with the handwheel.

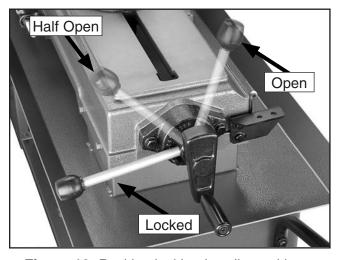


Figure 12. Positive locking handle positions.



To adjust the angle on the vise:

- 1. Loosen the lock nut with a 3/4" hex wrench.
- Use the scale as a guide to set your angle or use a machinist square to square the vise to the blade as shown in Figure 13.
- **3.** Tighten the lock nut.

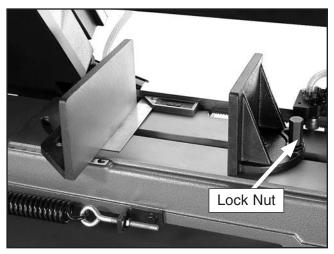


Figure 13. Squaring vise to blade.

- **4.** Loosen the lock nut in **Figure 14** on the opposite jaw so the jaw can float, and match the angle of the workpiece.
- **5.** Tighten the vise against the workpiece.

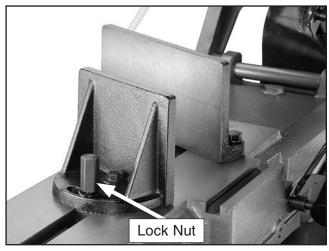


Figure 14. Vise jaw lock-nut.

Blade Speed

The Model G9743 has these three blade speeds: 148, 216, and 282 FPM.

NOTICE

DO NOT change speeds when the motor is running. Wait for the bandsaw to come to a complete stop or you will damage the gears and you will void your warranty.

To change blade speeds:

- TURN THE BANDSAW OFF AND ALLOW IT TO COME TO A COMPLETE STOP.
- 2. Determine the best speed for your cut. The table in **Figure 15** is provided as a rough guideline. Material thickness, type of blade used and if cutting fluid is used, will factor into the correct speed selection. As a general rule, add 15% when using cutting fluid.

Material	Feet Per Minute (FPM)
Tool, Stainless, & Alloy Steels, Cast Iron	148
Medium to High Carbon Steels, Iron, Hard Brass or Bronze	216
Aluminum and Plastics	282

Figure 15. Blade speed table.

Continued on next page —

3. With the saw turned *OFF*, rotate the speed control knob to the desired position (see Figure 16).



Figure 16. Speed control knob.

Blade Selection

The Model G9743 uses $104\frac{1}{2}$ x 1" bandsaw blades.

Selecting the right blade for the job depends on a variety of factors, such as the type of material being cut, hardness of the material, machine capability, and operator technique.

We suggest you do some research for your specific situation so you get the best blade to match your needs.

Grizzly is proud to offer a variety of selections that can be found in the current catalog and in **SECTION 5: ACCESSORIES** on **Page 25**.

Cutting Fluid System

This bandsaw has a built-in cutting fluid system that extends the life of your bandsaw blades by lowering the temperature of the blade and workpiece and washing away chips.

See **Cutting Fluid** on **Page 22** for more information.

To use the cutting fluid system:

- 1. Thoroughly clean and remove any foreign material that may have fallen inside the reservoir during shipping.
- Place the filter screen and drain tube in the reservoir as shown in Figure 17.
- 3. Fill the reservoir to the "high" mark with your chosen cutting fluid solution.

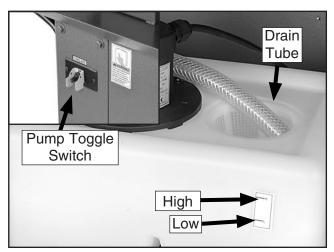


Figure 17. Filter screen and hose.



AWARNING

FIRE HAZARD! DO NOT cut magnesium when using oil-water solutions as a cutting fluid! Always use a cutting fluid intended for magnesium. The water in the solution will cause a magnesium-chip fire.



4. Adjust the valve on the coolant hose to control the flow of coolant (see Figure 18). Make sure that the pressure is not so high that coolant spills on the floor and creates a slipping hazard.

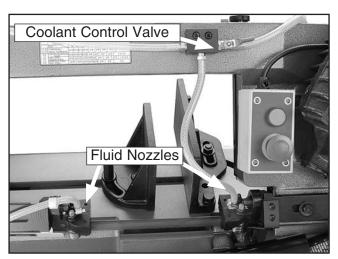


Figure 18. Coolant control valve.

Turn the pump toggle switch ON before making your cut.

NOTICE

Keep the tray chip screen clear so coolant can recycle to the pump reservoir. NEVER operate the pump with the reservoir below the low mark or you will over-heat the pump and void your warranty!

Cutting Fluid

While simple in concept and function, many issues must be taken into account to find and use the correct cutting fluid. Always follow all product warnings and contact the fluid manufacturer for unanswered questions.

Use the selections below to choose the appropriate cutting fluids:

- For cutting low alloy, low carbon, and general-purpose category metals with a bi-metal blade—use a water soluble cutting fluid.
- For cutting stainless steels, high carbon, and high alloy metals, brass, copper and mild steels—use "Neat Cutting Oil" (commonly undiluted mineral oils) that have extreme pressure additives (EP additives).
- For cutting cast iron, cutting fluid is not recommended.

Remember: Too much flow at the cutting fluid nozzle will make a mess and can make the work area unsafe; and not enough fluid at the cut will heat the blade, causing the blade teeth to load up and break.



AWARNING

BIOLOGICAL AND POISON HAZARD! Use proper personal protection equipment when handling cutting fluid and dispose by following federal, state, and fluid manufacturer requirements to properly dispose of cutting fluid.

Feed Rate

The speed at which the saw blade will cut through a workpiece is controlled by blade type, feed rate, and feed pressure.

Note: If a lubricant is used on the cut, the feed rate can be increased by approximately 15%.

To set the feed rate:

- 1. Raise the headstock to the maximum height to remove spring tension. Close the ON/OFF valve to lock the headstock in place.
- 2. Using a 14mm wrench, adjust the feed pressure tension spring. Tighten enough to remove play but not enough to apply tension to the spring (see **Figure 19**).

Note: This spring adjustment is an initial setting. Depending on cutting circumstances, you will have to fine-tune the feed pressure with this adjustment. Increasing the spring tension will reduce the feed pressure.

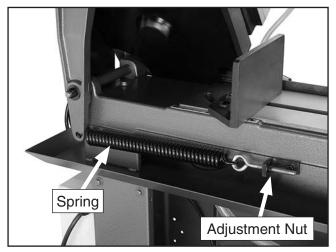


Figure 19. Spring tension adjustment.

- 3. Clamp the workpiece in the table vise.
- **4.** Close the feed ON/OFF valve **Figure 20**, to lock the headstock and blade a few inches above the workpiece.

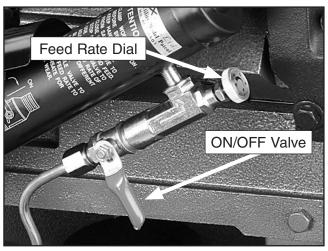


Figure 20. Feed rate dial.

- With the correct saw blade and blade speed selected, turn the saw and lubricant pump ON.
- 6. Slowly rotate the feed rate dial clockwise to a slow feed rate until the saw begins to cut the workpiece (see **Figure 20**).
- 7. Observe the chips that exit the cut, and increase or decrease the feed rate according to the chip characteristics (see **Figure 21**).

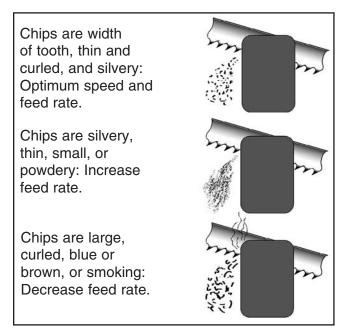


Figure 21. Reading chip characteristics.



Operation Tips

The following tips will help you safely and effectively operate your bandsaw, and help you get the maximum life out of your saw blades.

Tips for horizontal cutting:

- Use the work stop to quickly and accurately cut multiple pieces of stock to the same length.
- Clamp the material firmly in the vise jaws to ensure a straight cut through the material and use the positive lock to speed production.
- Let the blade reach full speed before engaging the workpiece. Never start a cut with the blade in contact with the workpiece (see Figure 22).
- Chips should be curled and silvery. If the chips are thin and powder like, increase your feed rate.
- Burned chips indicate a need to reduce your blade speed.
- Wait until the blade has completely stopped before removing the workpiece from the vise, and avoid touching the cut end—it could be very hot!
- Support long pieces so they won't fall when cut, and flag the end to alert passers-by of potential danger.
- Adjust the blade guides as close as possible to the workpiece to minimize side-to-side blade movement.
- Use coolant when possible to increase blade life.



Figure 22. Proper starting position.

SECTION 5: ACCESSORIES

H2307—104-1/2 x 1 x .032 10 TPI Raker H2308—104-1/2 x 1 x .032 14 TPI Raker H2315—104-1/2 x 1 x .032 3-4 Variable Pitch H2316—104-1/2 x 1 x .032 4-6 Variable Pitch H2317—104-1/2 x 1 x .032 5-8 Variable Pitch H2318—104-1/2 x 1 x .032 6-10 Variable Pitch H2319—104-1/2 x 1 x .032 8-12 Variable Pitch H2320—104-1/2 x 1 x .032 10-14 Variable Pitch

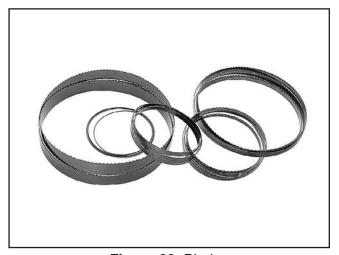


Figure 23. Blades

H5408—Blade Tensioning Gauge

The Blade Tensioning Gauge ensures long blade life, reduced blade breakage, and straight cutting by indicating correct tension. A precision dial indicator provides you with a direct readout in PSI.



Figure 24. H5408 Blade Tensioning Gauge.

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/aluminum and one for brass/cast iron.

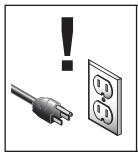


Figure 25. G5618 Deburring tool.

Gall 1-300-523-4777 To Order



SECTION 6: MAINTENANCE



AWARNING

Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

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.
- · Damaged saw blade.
- Worn or damaged wires.
- Any other unsafe condition.
- · Clean after each use.
- Proper blade tension.

Monthly Check:

- · Lubricate vise screw.
- Check gear box fluid level.

Annual Check:

 Change gear box oil (every three months if being used daily).

Cleaning

Cleaning the Model G9743 is relatively easy. After using your bandsaw, remove excess chips by sweeping and remove any excess coolant with a dry towel.

Lubrication

Before applying lubricant to any area, wipe the area clean to avoid contamination. Lubricate the vise screw shown in **Figure 26** with general purpose grease.

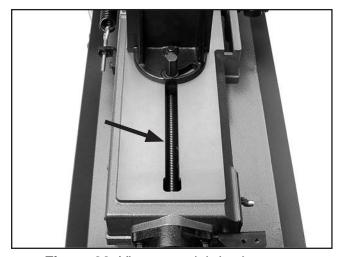


Figure 26. Vise screw lubrication area.

Change gear box oil by removing the drain plug on the underside of the gear box (out of view) in **Figure 27** and drain the gearbox. Replace the drain plug and refill through the fill cap with SAE-30 oil. Fill to the mark indicated on the sight glass.

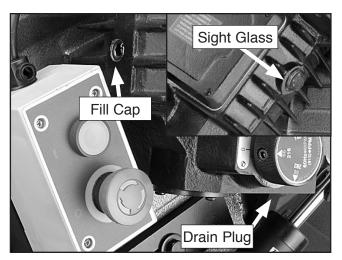


Figure 27. Gear box lubrication.



SECTION 7: SERVICE

Review the troubleshooting and procedures in this section to fix 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 or a breaker trips.	1. E-Stop button pressed.	1. Twist E-Stop button until it pops out.
	2. Plug/receptacle is at fault or wired incorrectly.	2. Test for good contacts; correct the wiring.
	3. Start capacitor is at fault.	3. Test/replace if faulty.
	4. Wall fuse/circuit breaker is blown/tripped.	4. Ensure correct size for machine load; replace weak breaker.
	5. Motor connection wired incorrectly.	5. Correct motor wiring connections.
	6. Power supply is at fault/switched OFF.	6. Ensure hot lines have correct voltage on all legs and main power supply is switched ON.
	7. Motor ON/OFF switch is at fault.	7. Replace faulty ON/OFF switch.
	8. Wiring is open/has high resistance.	8. Check for broken wires or disconnected/cor-
		roded connections, and repair/replace as necessary.
	9. Motor is at fault.	9. Test/repair/replace.
Machine stalls or is underpowered.	Wrong blade for the workpiece material.	1. Use blade with correct properties for your type
		of cutting.
	2. Wrong workpiece material.	2. Use metal with correct properties for your type of cutting.
	3. Feed rate/cutting speed too fast for task.	3. Decrease feed rate/cutting speed.
	4. Blade is slipping on wheels.	4. Adjust blade tracking and tension.
	5. Low power supply voltage.	5. Ensure hot lines have correct voltage on all legs.
	6. Motor bearings are at fault.	6. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.
	7. Plug/receptacle is at fault.	7. Test for good contacts; correct the wiring.
	8. Motor connection is wired incorrectly.	8. Correct motor wiring connections.
	9.Motor has overheated.	9.Clean off motor, let cool, and reduce workload.
	10.Motor is at fault.	10.Test/repair/replace.
Machine has vibration or noisy operation.	1. Motor fan is rubbing on fan cover.	Replace dented fan cover; replace loose/damaged fan.
	2. Blade is at fault.	2. Replace/resharpen blade.
	3. Gearbox is at fault.	3. Rebuild gearbox for bad gear(s)/bearing(s).
	4. Wrong blade & too slow of speed.	4. Change blade and or speed.



Bandsaw Operations

Machine is loud when cutting or bogs down in the cut. Blades break often.	 Excessive feed rate. The blade TPI is too great, or the material is too coarse. Blade is not tensioned correctly. The workpiece is loose in the vise. The feed or cut speed is wrong. 	 Refer to Feed Rate on Page 23, or Changing Blade Speed on Page 20, and adjust as required. Refer to Blade Selection on Page 21 and adjust as required. Check to see that blade is not excessively tight or too loose. Clamp the workpiece tighter, or use a jig to hold the workpiece. Refer to Feed Rate on Page 23, or Changing
Blades break often.	2. The workpiece is loose in the vise.3. The feed or cut speed is wrong.	too loose. 2. Clamp the workpiece tighter, or use a jig to hold the workpiece.
	-	
	 The blade TPI is too great, or the material is too coarse. The blade is rubbing on the wheel flange. The bandsaw is being started with the blade resting on the workpiece. The guide bearings are misaligned, or the blade is rubbing on the wheel flange. The blade is too thick, or the blades are of law guality. 	 Blade Speed on Page 20, and adjust as required. 4. Refer to Blade Selection on Page 21, and adjust as required. 5. Refer to Blade Tracking on Page 30, and adjust as required. 6. Start bandsaw and then slowly lower the headstock by setting the feed rate. 7. Refer to Blade Tracking on Page 30, or Blade Guides on Page 32, and adjust as required. 8. Use a higher quality blade.
Blade dulls prematurely.	blades are of low quality. 1. The cutting speed is too fast. 2. The blade TPI is too coarse. 3. The blade feed pressure is too light. 4. The workpiece has hard spots, welds, or scale is on the material. 5. The blade is twisted. 6. The blade is slipping on the wheels.	 Refer to Changing Blade Speed on Page 20, and adjust as required. Refer to Blade Selection on Page 21, and adjust as required. Refer to Feed Rate on Page 23, and adjust as required. Increase the feed pressure, and reduce the cutting speed. Replace the blade. Refer to Blade Tension on Page 31, and adjust as required.
Blade wears on one side.	 The blade guides are worn or misadjusted. The blade guide slide bracket is loose. The wheels are out of alignment. 	 Refer to Blade Guides on Page 32 and replace or adjust. Tighten the blade guide bracket. Refer to Blade Tracking on Page 30, and adjust as required.
Teeth are ripping from the blade.	 The feed pressure is too heavy and the blade speed is too slow; or the blade TPI is too coarse for the workpiece. The workpiece is vibrating in the vise. The blade gullets are loading up with chips. 	 Refer to Blade Selection on Page 21 and decrease the feed pressure. Refer to Feed Rate on Page 23, and adjust as required. Re-clamp the workpiece in the vise, and use a jig if required. Use a coarser-tooth blade.
The cuts are crooked.	 The feed pressure is too high. The guide bearings are out of adjustment, or too far away from the workpiece. The blade tension is low. The blade is dull. The blade speed is wrong. 	 Refer to Feed Rate on Page 23, and adjust as required. Refer to Blade Guides on Page 32 and replace or adjust. Refer to Blade Tension on Page 31, and adjust as required. Refer to Changing the Blade on Page 29 and replace the blade. Refer to Changing Blade Speed on Page 20, and



Blade Change

Blades should be changed when they become dull, damaged, or when you are using materials that require a blade of a certain type or tooth count.

To change the blade on the bandsaw:

- 1. UNPLUG THE BANDSAW!
- 2. Raise the headstock of the bandsaw to the highest position, close the Feed ON/OFF valve, and remove the wheel access cover.
- **3.** Remove the blade guards.
- **4.** Loosen the tension handle in **Figure 28** and slip the blade off of the wheels.

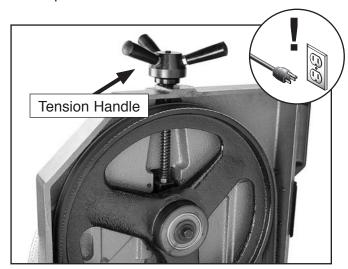


Figure 28. Tension handle and blade.

5. Install the new blade through both blade guide bearings, as shown in **Figure 29**, and around the bottom wheel.

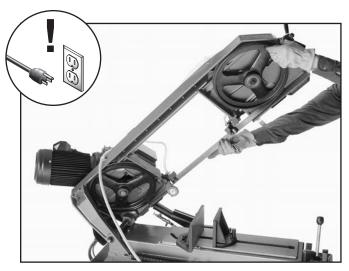


Figure 29. Installing blade.

6. Hold the blade around the bottom wheel with one hand and slip it around the top wheel with the other hand, keeping the blade between the blade guide bearings.

Note: It is sometimes possible to flip the blade inside out, in which case the blade will be installed in the wrong direction. Check to make sure the blade teeth are facing toward the workpiece, as shown in **Figure 30**, after mounting on the bandsaw. Some blades will have a directional arrow as a guide.

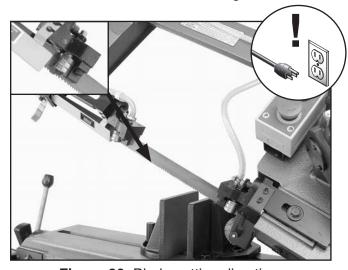


Figure 30. Blade cutting direction.

7. When the blade is around both wheels, adjust the position so the back of the blade is against the shoulder of the wheels.



- **8.** Tighten the tension handle as tight as necessary so the blade will not slip on the wheels during start up.
- Put the gearbox in neutral by moving the gear change knob between two of the speed positions.
- **10.** Spin the wheel by hand until the blade resumes the previous tracking.
- **11.** Put the gearbox back in gear.
 - —If the tracking needs to be adjusted, refer to the **Tracking** procedure in the next section.
 - If the tracking is fine, proceed to Blade Tension on Page 31.

Blade Tracking

The blade tracking has been properly set at the factory. The tracking will rarely need to be adjusted if the bandsaw is used properly.

To adjust the blade tracking on the bandsaw:

- 1. UNPLUG THE BANDSAW!
- **2.** Raise the bandsaw to the highest position and close the feed rate ON/OFF valve.
- **3.** Remove both blade guide assemblies.
- **4.** Open the wheel access cover.
- 5. Loosen, but do not remove the lower cap screw in the blade wheel tilting mechanism (Figure 31).

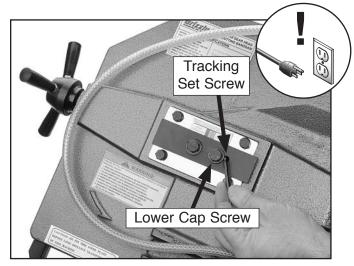


Figure 31. Adjusting tracking set screw.

- 6. Relax the blade tension.
- Adjust the tracking set screw with a 4mm hex wrench as shown in Figure 31, then tighten the cap screw loosened in Step 4.
 - -Tightening the set screw will move the blade closer to the shoulder of the wheel.
 - Loosening the set screw will move the blade away from the shoulder.
- **8.** Tension the blade.
- **9.** Put the gearbox in neutral by moving the gear change knob between two of the speed positions and spin the wheel by hand.
 - —If the blade tracks along the shoulder of the wheel (without rubbing), the blade is tracking properly and this adjustment is completed.
 - —If the blade drifts away from the shoulder of the wheel or hits the shoulder, repeat Steps 4-7.
- **10.** Replace the blade guard and blade guide assemblies.
- **11.** Adjust the blade guides as needed. Refer to **Blade Guide Bearings** on **Page 32.**



Blade Tension

Proper blade tension is essential to long blade life, straight cuts, and efficient cutting. The Model G9743 features a blade tension indicator to assist you with blade tensioning.

Two major signs that you do not have proper blade tension are: 1) the blade stalls in the cut and slips on the wheels, and 2) the blade frequently breaks from being too tight.

To tension the blade on the bandsaw:

- **1.** Make sure the blade is tracking properly.
- 2. UNPLUG THE BANDSAW!
- **3.** Slide the blade guides as far apart as they will go, then tighten them down again.
- **4.** Turn the tension handle clockwise to tighten the blade.
- Tighten the blade until the tension indicator moves into the green or center section of the indicator.
- 6. To fine tune blade tension, use a blade tensioning gauge, like the one found in SECTION 5: ACCESSORIES on Page 25. Please follow the instructions included with your gauge and the blade manufacturer's recommendations on blade tension.

Squaring the Blade

It is always a good idea during the life of your saw to check and adjust this setting. This adjustment will improve your cutting results and extend the life of your blade.

To square the blade to the bed of the table:

- 1. UNPLUG THE BANDSAW!
- **2.** Lower the head of the bandsaw all the way until it contacts the horizontal stop.
- 3. Place a square on the table bed and against the edge of the blade (**Figure 32**), and check different points along the length of the table between the blade guides.
- 4. Loosen the cap screw shown in Figure 32, and rotate the blade guide until the blade is vertical to the bed, then tighten the cap screws.

Note: Both blade guides can be adjusted to achieve the results you want.

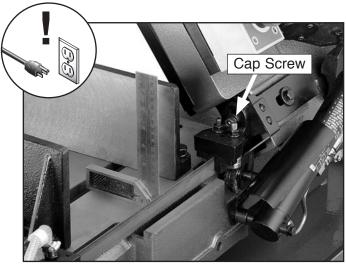


Figure 32. Squaring the blade.



Blade Guide Bearings

The blade guide bearings come adjusted from the factory and the need for adjustment should rarely occur. Uneven blade wear and crooked cuts may be the result of improper adjustment. Each bearing assembly has an eccentric bushing that allows the distance between the blade and bearings to be adjusted. The bearings are secured in place by a hex nut and a lock washer as shown in **Figure 33**.

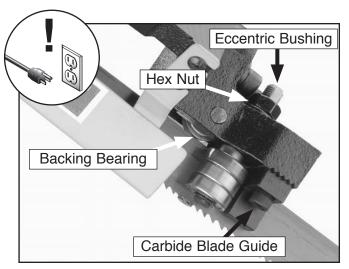


Figure 33. Blade guide adjustments.

To adjust the blade guide bearings:

- 1. UNPLUG THE BANDSAW!
- Raise the bandsaw to the highest position and close the feed rate ON/OFF valve.
- 3. Loosen the hex nut that secures the eccentric bushing.
- **4.** Adjust the eccentric bushing position to achieve the desired clearance. The bearing and blade should make light contact or have a clearance of 0.001"-0.002".
- **5.** Tighten the nut to lock the eccentric bushing and bearing in position.

- 6. Adjust the other eccentric blade guide bearing in the same manner. The backing bearing is not adjustable and will make light contact with the blade.
- Adjust the carbide blade guides so they make the same contact with the blade as the bearings.

Blade Guides

The blade guides should be as close to the workpiece as possible. This will help ensure straight cuts by keeping the blade from twisting and drifting off the cut line.

To adjust the blade guides:

 Loosen the knob shown in Figure 34 and slide the rear blade guide as close to the workpiece as possible, then tighten the knob.

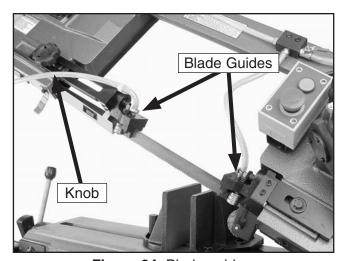


Figure 34. Blade guides.



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 aftermarket 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 **COLOR KEY** BLACK • LIGHT BLUE YELLOW The photos and diagrams BLUE included in this section are YELLOW WHITE = BROWN **BLUE** GREEN best viewed in color. You WHITE GREEN : (Gn) GRAY **PURPLE** can view these pages in TUR-QUOISE (Rd) **PINK** RED **ORANGE** color at www.grizzly.com.

Electrical Components



Figure 35. Circuit breaker.

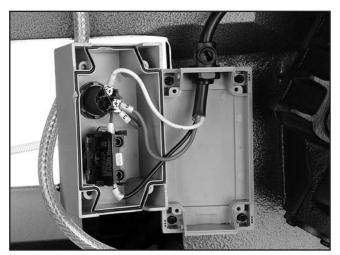


Figure 36. Bandsaw ON and E-Stop Switches.

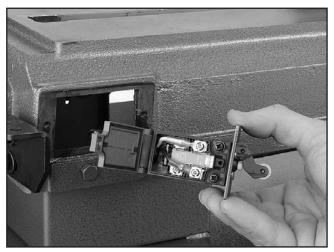


Figure 37. Auto-shutoff switch.



Figure 38. Coolant pump ON/OFF Switch.

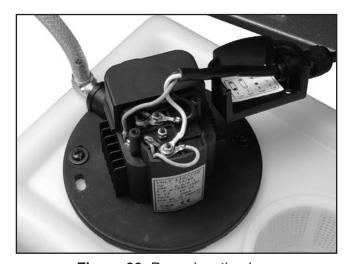


Figure 39. Pump junction box.

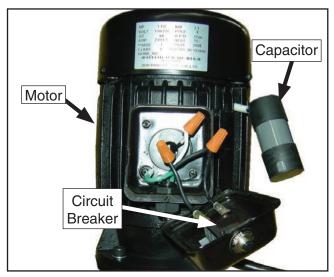


Figure 40. Motor wiring inside junction box.

Electrical Components

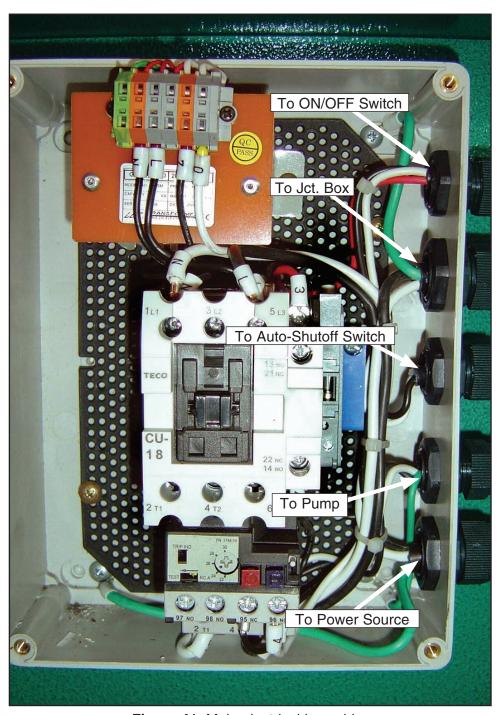
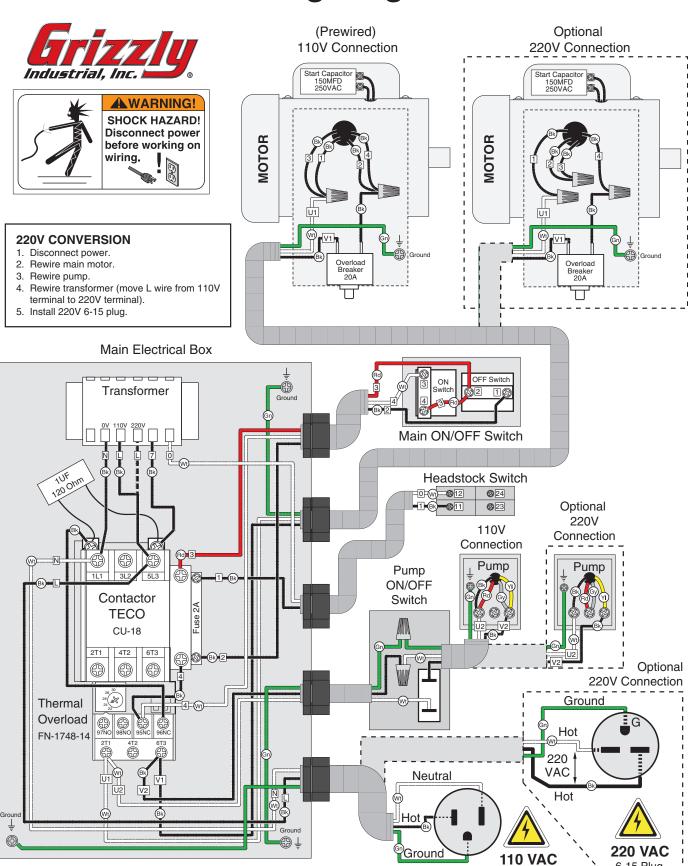


Figure 41. Main electrical box wiring.

Wiring Diagram

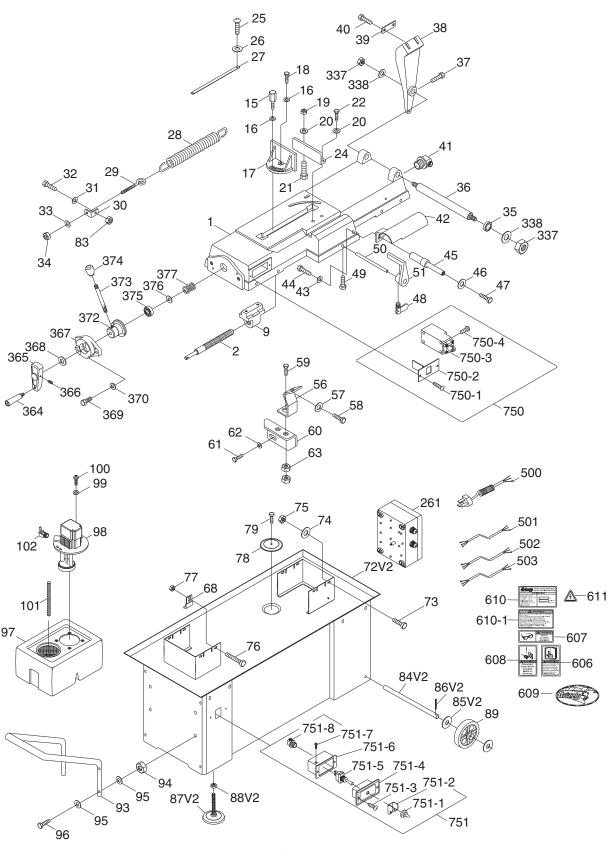


5-15 Plug

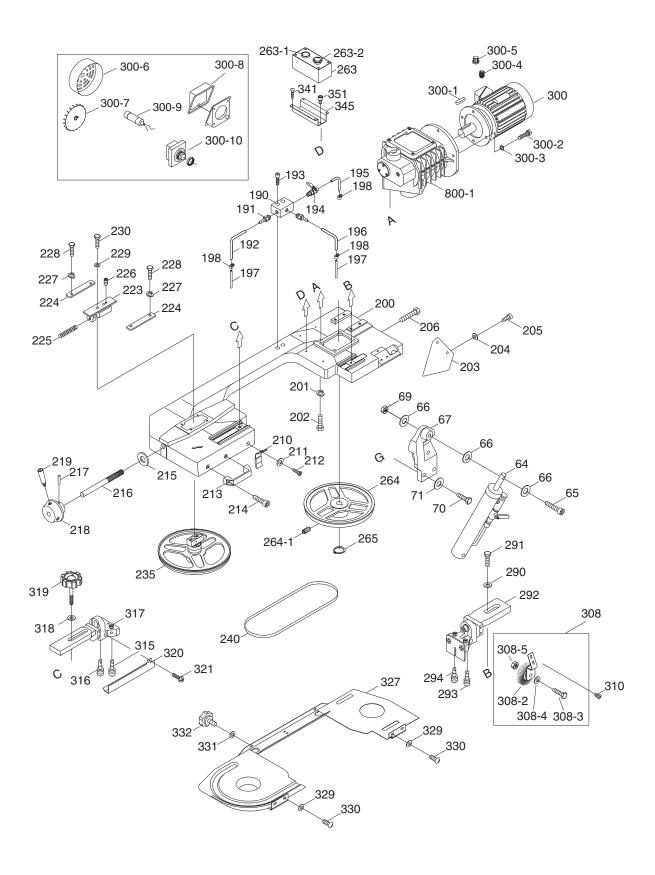
6-15 Plug

SECTION 9: PARTS

Base/Stand



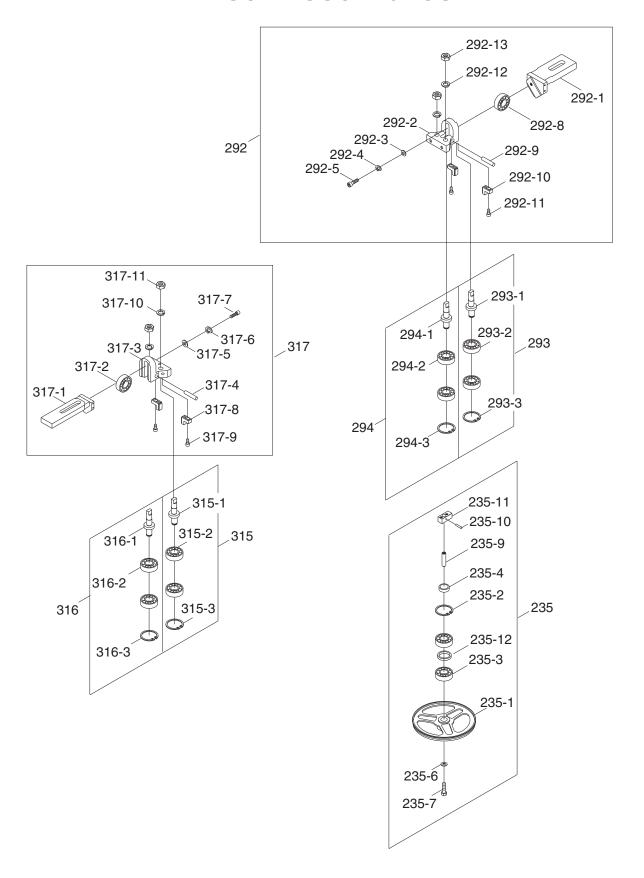
Headstock





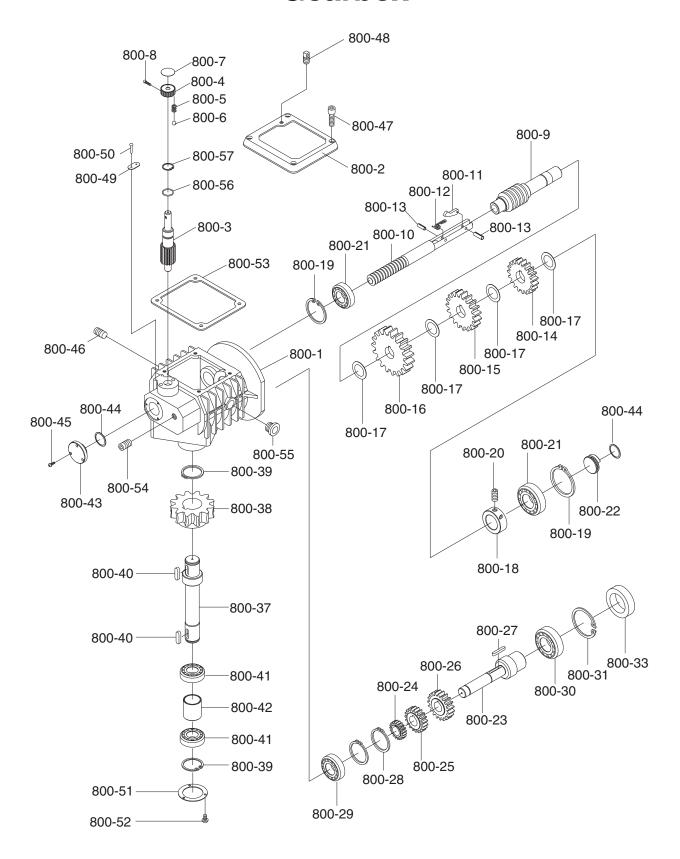
-37-

Misc. Assemblies



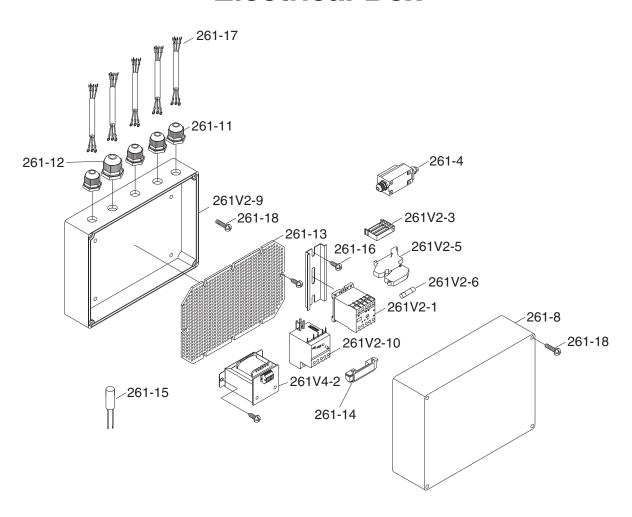


Gearbox





Electrical Box





REF	PART#	DESCRIPTION		
1	P9743001	BASE		
2	P9743002	ACME SCREW		
9	P9743009	ACME NUT		
15	P9743015	FIXED BOLT		
16	PW01M	FLAT WASHER 3/8		
17	P9743017	VISE JAW BRACKET (FRONT)		
18	PB16	HEX BOLT 3/8-16 X 1-1/2		
19	PN06	HEX NUT 1/2-12		
20	PW01	FLAT WASHER 1/2		
21	PCB21	CARRIAGE BOLT 1/2-12 X 2 1/2		
22	PB42	HEX BOLT 1/2-12 X 2		
24	P9743024	VISE JAW BRACKET (REAR)		
25	PS06	PHLP HD SCR 10-24 X 3/8		
26	PW03	FLAT WASHER #10		
27	P9743027	SCALE		
28	P9743028	EXTENSION SPRING		
29	P9743029	SPRING ADJUSTNG BOLT		
30	P9743030	SPRING HANDLE BRACKET		
31	PW07	FLAT WASHER 5/16		
32	PB07	HEX BOLT 5/16-18 X 3/4		
33	PW02	FLAT WASHER 3/8		
34	PN08	HEX NUT 3/8-16		
35	P9743035	BUSHING		
36	P9743036	SUPPORT ROD		
37	PB07	HEX BOLT 5/16-18 X 3/4		
38	P9743038	PIVOT BRACKET		
39	P9743039	BRACKET WASHER		
40	PB16	HEX BOLT 3/8-16 X 1-1/2		
41	P9743041	STRAIN RELIEF 5/8		
42	P9743042	CYLINDER PROTECTOR		
43	PW07	FLAT WASHER 5/16		
44	PB07	HEX BOLT 5/16-18 X 3/4		
45	P9743045	CYLINDER LOWER SUPPORT		
46	PW07	FLAT WASHER 5/16		
47	PB09	HEX BOLT 5/16-18 X 1/2		
48	P9743048	THUMB SCREW		
49	PB07	HEX BOLT 5/16-18 X 3/4		
50	P9743050	STOCK STOP ROD		
51	P9743051	STOP BLOCK		
56	P9743056	SHIPPING BRACKET		
57	PW07	FLAT WASHER 5/16		
58	PB11	HEX BOLT 5/16-18 X 1-1/2		
59	PB25	HEX BOLT 3/8-16 X 1-1/2		
60	P9743060	SUPPORT PLATE		
61	PB07	HEX BOLT 5/16-18 X 3/4		
62	PLW01	LOCK WASHER 5/16		
63	PN08	HEX NUT 3/8-16		
64	P4030164	CYLINDER		
-	 	CAP SCREW 3/8-16 X 2-1/4		
65	PSB29			
66	PLW04	LOCK WASHER 3/8		

REF	PART#	DESCRIPTION		
67	P9743067	CYLINDER UPPER SUPPORT		
68	P9743068	SHUT-OFF SWITCH TAB		
69	PN08	HEX NUT 3/8-16		
70	PB03	HEX BOLT 5/16-18 X 1		
71	PW07	FLAT WASHER 5/16		
72V2	P9743072V2	STAND ASSY. V2.12.09		
73	PB03	HEX BOLT 5/16-18 X 1		
74	PLW01	LOCK WASHER 5/16		
75	PN02	HEX NUT 5/16-18		
76	PB24	HEX BOLT 3/8-16 X 1-1/4		
77	PN08	HEX NUT 3/8-16		
78	P9743078	FILTER		
79	PB19	HEX BOLT 1/4-20 x 1/2		
83	PN02	HEX NUT 5/16-18		
84V2	P9743084V2	WHEEL ROD V2.12.09		
85V2	P9743085V2	SPECIAL WASHER V2.12.09		
86V2	PB65	HEX BOLT 3/8-16 x 5/8		
87V2	P9743087V2	FOOT V2.12.09		
88V2	P9743088V2	COTTER PIN 3 X 25		
89	P9743089	WHEEL		
93	P9743093	HANDLE		
94	PN02	HEX NUT 5/16-18		
95	PW07	FLAT WASHER 5/16		
96	PB11	HEX BOLT 5/16-18 X 1-1/2		
97	P0561082	COOLANT TANK		
98	P9743098	PUMP		
99	PW06	FLAT WASHER 1/4		
100	PS12	PHLP HD SCR 1/4-20 X 5/8		
101	P9743101	HOSE 5/8 X 200MM		
102	P1758088	HOSE FITTING		
190	P9743190	3-WAY MANIFOLD		
191	P9743191	HOSE FITTING		
192	P9743192	HOSE 8 X 1100MM		
193	PSB32	CAP SCREW 1/4-20 X 1-1/4		
194	P9743194	VALVE		
195	P9743195	HOSE 12 X 1400MM		
196	P9743196	HOSE 8 X 400MM		
197	P9743197	HOSE BIB		
198	P9743198	HOSE CLAMP		
200	P9743200	BODY FRAME		
201	PLW04	LOCK WASHER 3/8		
202	PB24	HEX BOLT 3/8-16 X 1-1/4		
203	P9743203	SUPPORT PLATE		
204	PW06	FLAT WASHER 1/4		
205	PSB04	CAP SCREW 1/4-20 X 1/2		
206	PB07	HEX BOLT 5/16-18 X 3/4		
210	P9743210	SHUT-OFF SWITCH TAB		
211	PW06	FLAT WASHER 1/4		



	PART #	DESCRIPTION	
213 F	P9743213	HANDLE	
214 F	PSB03	CAP SCREW 5/16-18 X 1	
215 F	PLW04	LOCK WASHER 3/8	
216 F	P9743216	BLADE TENSION BAR	
217 F	PRP42M	ROLL PIN 3 X 20	
218 F	9743218	HANDLE BODY	
219 F	P9743219	HANDLE	
223 F	P9743223	BLADE TENSION SLIDING BLOCK	
224 F	P9743224	SLIDING PLATE	
225 F	P9743225	COMPRESSION SPRING	
226 F	PSS18	SET SCREW 5/16-18 X 3/4	
227 F	PLW01	LOCK WASHER 5/16	
228 F	PB03	HEX BOLT 5/16-18 X 1	
229 F	PW07	FLAT WASHER 5/16	
230 F	PB11	HEX BOLT 5/16-18 X 1-1/2	
235 F	P9743235	IDLER WHEEL ASSY	
235-1 F	P9743235-1	IDLER WHEEL	
235-2 F	PR26M	INT RETAINING RING 52MM	
235-3 F	P9743235-3	BEARING 6205	
235-4 F	P9743235-4	BUSHING	
235-9 F	P9743235-9	BLADE WHEEL SHAFT	
235-10 F	PRP77M	ROLL PIN 5 X 34	
235-11 F	P9743235-11	SLIDING PLATE DRAW BLOCK	
235-12 F	P9743235-12	SPACER	
240 H	H2317	BLADE 104-1/2 X 1	
261V2 F	P9743261V2	ELECTRICAL BOX ASSY.	
		V2.12.09	
261V2-1 F	P9743261V2-1	CONTACTOR TECO CU-18 24V	
261V4-2 F	P9743261V4-2	TRANSFORMER TBSM RF-017	
		V4.01.08	
261-3 F	P9743261-3	TERMINAL BLOCK	
261-4 F	P9743261-4	LIMIT SWITCH	
261V2-5 F	P9743261V2-5	FUSE HOUSING 281-611	
		V2.12.09	
261V2-6 F	P9743261V2-6	FUSE 2A 5 X 20MM V2.12.09	
261-8 F	9743261-8	ELECTRICAL BOX	
261V2-9 F	P9743261V2-9	ELECTRICAL BOX V2.12.09	
261V2-10 F	P9743261V2-10	OL RELAY TECO FN-1748	
		22-30A	
261-11 F	P9743261-11	STRAIN RELIEF	
261-12 F	P9743261-12	STRAIN RELIEF	
261-13 F	P9743261-13	NET PIN	
261-14 F	P9743261-14	CLIP	
261-15 F	P9743261-15	ARRESTOR	
	PHTEK12M	TAP SCREW M5 X 15	
 	P9743261-17	POWER CABLE	
 	PS04	PHLP HD SCR 1/4-20 X 1/2	
L			
263 F	P9473263	CONTROL BOX	

REF	PART #	DESCRIPTION	
263-2	P9473263-2	EMERGENCY STOP SWITCH	
264	P9743264	DRIVE BLADE WHEEL	
264-1	PSS03	SET SCREW 1/4-20 X 3/8	
265	PR11M	EXT RETAINING RING 25MM	
290	PW02	FLAT WASHER 3/8	
291	PB24	HEX BOLT 3/8-16 X 1-1/4	
292	P9743292	ADJUSTABLE BRACKET ASSY	
292-1	P9743292-1	ADJUSTABLE BRACKET	
292-2	P9743292-2	BLADE ADJUSTER	
292-3	PW07	FLAT WASHER 5/16	
292-4	PLW01	LOCK WASHER 5/16	
292-5	PSB11	CAP SCREW 5/16-18 X 1-1/4	
292-8	P608	BEARING 608	
292-9	P9743292-9	BEARING PIN	
	P9743292-10	CARBIDE GUIDE	
292-11	PSB01M	CAP SCREW M6-1 X 16	
	PLW04	LOCK WASHER 3/8	
292-13	PN11	HEX NUT 3/8-24	
293	P9743293	GUIDE PIVOT (RIGHT)ASSY	
293-1	P9743293-1	GUIDE PIVOT (RIGHT)	
293-2	P608	BEARING 608	
293-3	PR40M	INT RETAINING RING 26MM	
294	P9743294	GUIDE PIVOT (LEFT)ASSY	
294-1	P9743294-1	GUIDE PIVOT (LEFT)	
294-2	P608	BEARING 608	
294-3	PR40M	INT RETAINING RING 26MM	
300	P9743300	MOTOR 1-1/2HP 110V 60HZ 1PH	
300-1	PK12M	KEY 5 X 5 X 30	
300-1	PB32M	HEX BOLT M10-1.5 X 25	
300-2	PLW06M	LOCK WASHER 10MM	
	+	STRAIN RELIEF	
300-4	P9743300-4	WIRE NUT	
300-5	P9743300-5	FAN COVER	
300-6	P9743300-6		
300-7	P9743300-7	FAN HINGTION BOY	
300-8	P9743300-8	JUNCTION BOX	
300-9	PC150A	CAPACITOR 150MFD 250 VAC	
300-10	P9743300-10	CIRCUIT BREAKER	
308	P9743308	BRUSH SUPPORT ASSY	
308-2	P9743308-2	BRUSH	
308-3	PB29M	HEX BOLT M6-1 X 30	
308-4	PW03M	FLAT WASHER 6MM	
308-5	PN01M	HEX NUT M6-1	
310	PS06	PHLP HD SCR 10-24 X 3/8	
315	P9743315	GUIDE PIVOT (RIGHT)ASSY	
315-1	P9743315-1	GUIDE PIVOT (RIGHT)	
315-2	P608	BEARING 608	
315-3	PR40M	INT RETAINING RING 26MM	
316	P9743316	GUIDE PIVOT (LEFT) ASSY	



REF	PART #	DESCRIPTION		
316-1	P9743316-1	GUIDE PIVOT (LEFT)		
316-2	P608	BEARING 608		
316-3	PR40M	INT RETAINING RING 26MM		
317	P9743317	ADJ BRACKET (FRONT) ASSY		
317-1	P9743317-1	ADJUSTABLE BRACKET (FRONT)		
317-2	P608	BEARING 608		
317-3	P9743317-3	BLADE ADJUSTER (REAR)		
317-4	P9743317-4	BEARING PIN		
317-5	PW07	FLAT WASHER 5/16		
317-6	PLW01	LOCK WASHER 5/16		
317-7	PSB11	CAP SCREW 5/16-18 X 1-1/4		
317-8	P9743317-8	CARBIDE GUIDE		
317-9	PB83M	HEX BOLT M6-1 X 16		
	PLW04	LOCK WASHER 3/8		
	PN11	HEX NUT 3/8-24		
318	PLW04	LOCK WASHER 3/8		
319	P9743319	BLADE ADJUSTER KNOB		
320	P9743320	BLADE COVER (FRONT)		
321	PS23	PHLP HD SCR 8-32 x 1/4		
327	P9743327	BLADE BACK COVER		
	1	FLAT WASHER 1/4		
329	PW06			
330	PS04	PHLP HD SCR 1/4-20 X 1/2		
331	PW06	FLAT WASHER 1/4		
332	P9743332	COVER KNOB 1/4-20 X 1/2		
337	PN06	HEX NUT 1/2-12		
338	PW01	FLAT WASHER 1/2		
341	PS17M	PHLP HD SCR M6-1 X 12		
345	P9743340	BRACKET		
351	PSB02	CAP SCREW 10-24 X 3/8		
364	P9743364	CRANK HANDLE		
365	P9743365	CAST IRON CRANK		
366	PSS07	SET SCREW 1/4-20 X 1/2		
367	P9743367	PRESSURE CLAMP		
368	PW06M	FLAT WASHER 12MM		
369	PB24	HEX BOLT 3/8-16 X 1-1/4		
370	PLW04	LOCK WASHER 3/8		
372	P9743372	PRESSURE SHAFT		
373	P9743373	SHAFT		
374	P9743374	SHAFT KNOB		
375	P9743375	ACME SCREW BEARING		
376	PW06M	FLAT WASHER 12MM		
377	P9743377	COMPRESSION SPRING		
500	P9743500	POWER CORD		
501	P9743501	PUMP CORD		
502	P9743502	LIMIT SWITCH CORD		
503	P9743503	MOTOR CORD		
606	P9743606	READ MANUAL LABEL		
	P9743607	SAFETY GLASSES LABEL		
607				
607 608	P9743608	UNPLUG LABEL		

REF	PART #	DESCRIPTION		
610	P9743610	MACHINE ID LABEL		
610-1	P9743610-1	MACHINE WARNINGS LABEL		
611	P9743611	ELECTRICITY LABEL		
750	P9743750	SAFETY SWITCH ASSY		
750-1	PS06	PHLP HD SCR 10-24 X 3/8		
750-2	P9743750-2	SWITCH BRACKET		
750-3	P9743750-3	SAFETY SWITCH		
750-4	PS06	PHLP HD SCR 10-24 X 3/8		
751	P9743751	PUMP TOGGLE SWITCH ASSY		
751-1	P9743751-1	TOGGLE SWITCH COVER		
751-2	P9743751-2	SWITCH COVER		
751-3	PS06	PHLP HD SCR 10-24 X 3/8		
751-4	P9743751-4	COVER		
751-5	P9743751-5	TOGGLE SWITCH		
751-6	P9743751-6	ELECTRICAL BOX		
751-7	PS17M	PHLP HD SCR M47 X 6		
751-8	P9743751-8	STRAIN RELIEF		
800-1	P9743800-1	GEAR BOX		
800-2	P9743800-2	GEAR BOX COVER		
800-3	P9743800-3	SPEED CHANGE GEAR SHAFT		
800-4	P9743800-4	SPEED LEVER		
800-5	P9743800-5	COMPRESSION SPRING		
800-6	P9743800-6	STEEL BALL		
800-7	P9743800-7	SPEED INDICATOR DIAL		
800-8	PSB94M	CAP SCREW M58 X 27		
800-9	P9743800-9	WORM SHAFT		
	P9743800-10	SPEED CHANGE ROD		
800-11	P9743800-11	SPEED CHANGE KEY		
800-12	P9743800-12	TORSION SPRING		
800-13	PRP44M	ROLL PIN 3 X 10		
800-14	P9743800-14	GEAR		
	P9743800-15	GEAR		
800-15	P9743800-15	GEAR		
800-10	P9743800-17	GEAR SPACER		
800-17	P9743800-17	BUSHING BRACKET		
800-18	PR12M	EXT RETAINING RING 35MM		
800-19	PSS02M	SET SCREW M6-1 X 6		
800-20	P6003	BEARING 6003		
800-21	P9743800-22	COVER		
800-23		GEAR SHAFT		
800-24	P9743800-23			
	P9743800-24	GEAR		
800-25	P9743800-25	GEAR		
800-26	P9743800-26	GEAR		
800-27	PK15M	KEY 5 X 5 X 32		
800-28	PR18M	EXT RETAINING RING 17MM		
800-29	P6003	BEARING 6003		
800-30	P6007	BEARING 6007		
800-31	PR38M	INT RETAINING RING 62MM		
800-33	P9743800-33	OIL SEAL		
800-37	P9743800-37	DRIVE GEAR SHAFT		



REF	PART#	DESCRIPTION
800-38	P9743800-38	WORM GEAR
800-39	PR11M	EXT RETAINING RING 25MM
800-40	PK07M	KEY 6 X 6 X 20
800-41	P9743800-41	BEARING 60205
800-42	P9743800-42	BEARING SPACER
800-43	P9743800-43	COVER
800-44	P9743800-44	O-RING
800-45	PSBS06M	BUTTON HD CAP SCR M58 X 12
800-46	P9743800-46	PLUG
800-47	PSB02M	CAP SCREW M6-1 X 20

REF	PART #	DESCRIPTION
800-48	P9743800-48	VENT PLUG
800-49	P9743800-49	SCALE
800-50	P9743800-50	RIVET
800-51	P9743800-51	BEARING COVER
800-52	PS09M	PHLP HD SCR M58 X 10
800-53	P9743800-53	GASKET
800-54	P9743800-54	PLUG
800-55	P9743800-55	SIGHT GLASS
800-56	P9743800-56	O-RING
800-57	PR66M	INT RETAINING RING 25MM



Notes



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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3.	What is your annual househousehousehousehousehousehousehouse	old income?\$30,000-\$39,000\$60,000-\$69,000	\$40,000-\$49,000 \$70,000+			
4.	What is your age group? 20-29 50-59	30-39 60-69	40-49 70+			
5.	How long have you been a w	roodworker/metalworker? 2-8 Years 8-20 Yea	ars20+ Years			
6.	How many of your machines 0-2	or tools are Grizzly? 3-56-9	10+			
7.	Do you think your machine re	epresents a good value?	YesNo			
8.	Would you recommend Grizzly Industrial to a friend?YesNo					
9.	Would you allow us to use you Note: We never use names r	our name as a reference for Grizzly more than 3 times.	•			
10.	Comments:					

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