

# 18" PROFESSIONAL BANDSAW MODEL G4186Z INSTRUCTION MANUAL



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# 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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# **SECTION 1: SAFETY**

# **AWARNING**

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

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



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

**AWARNING** 

Indicates a potentially hazardous situation which, if not avoided, <u>COULD</u> result in death or serious injury.

**A**CAUTION

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

**NOTICE** 

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

# **AWARNING**Safety Instructions For Power Tools

- KEEP GUARDS IN PLACE and in working order.
- 2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- **3. KEEP WORK AREA CLEAN**. Cluttered areas and benches invite accidents.
- 4. DO NOT USE IN DANGEROUS ENVI-RONMENT. Do not use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

- 5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
- **6. MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- DO NOT FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- **8. USE RIGHT TOOL.** Do not force tool or attachment to do a job for which it was not designed.

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# **A**WARNING

# **Safety Instructions For Power Tools**

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

Minimum Gauge for Extension Cords

	LENGTH		
AMP RATING	25ft	50ft	100ft
0-6	18	16	16
7-10	18	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

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

- **14. DO NOT OVERREACH.** Keep proper footing and balance at all times.
- 15. REDUCE THE RISK OF UNINTENTION-AL STARTING. On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.
- 16. MANY WOODWORKING TOOLS CAN "KICKBACK" THE WORKPIECE toward the operator if not handled properly. Know what conditions can create "kickback" and know how to avoid them. Read the manual accompanying the machine thoroughly.
- 17. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **18. NEVER LEAVE TOOL RUNNING UNAT- TENDED. TURN POWER OFF.** Do not leave tool until it comes to a complete stop.
- 19. NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Full mental alertness is required at all times when running a machine.
- 20. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPERATE THE MACHINE. Make sure any instructions you give in regards to the operation of the machine are approved, correct, safe, and clearly understood.

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# **AWARNING**

# **Additional Safety Instructions For Bandsaws**

- DO NOT OPERATE WITH DULL OR BADLY WORN BLADES. Dull blades require more effort to use and are difficult to control. Inspect blades before each use.
- 2. NEVER POSITION FINGERS OR THUMBS IN LINE WITH THE CUT. Serious personal injury could occur.
- 3. DO NOT OPERATE THIS BANDSAW WITHOUT WHEEL, PULLEY, AND BLADE GUARDS IN PLACE.
- 4. WHEN REPLACING BLADES, make sure teeth face down towards the table. The force of the cut is always down. Make sure the blade is properly tensioned.
- CUTS SHOULD ALWAYS BE FULLY SUPPORTED by the table or some type of support fixture. Always support round stock in a V-block.
- 6. DO NOT BACK WORKPIECE AWAY from the blade while the saw is running. Plan your cuts so you always cut out of the wood. if you need to back the work out, turn the bandsaw off and wait for the blade to come to a complete stop. Do not twist or put excessive stress on the blade while backing work away.

- ALWAYS FEED STOCK EVENLY AND SMOOTHLY. Do not force or twist blade while cutting, especially when sawing small radii.
- THIS MACHINE IS NOT DESIGNED TO CUT METAL or other material except wood.
- 9. BLADE SHOULD BE RUNNING AT FULL SPEED before beginning a cut.
- 10. DO NOT MANUALLY STOP OR SLOW BLADE after turning the saw off. Allow it to come to a complete stop before you leave it unattended.
- 11. 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. HABITS GOOD AND BAD ARE HARD TO BREAK. Develop good habits in your shop, and safety will become second-nature to you.
- 13. IF AT ANY TIME YOU ARE EXPERIENC-ING DIFFICULTIES PERFORMING THE INTENDED OPERATION, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.

# WARNING

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

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# **SECTION 2: CIRCUIT REQUIREMENTS**

# 220V Operation

The motor supplied with the Model G4186Z comes prewired for 220V. Refer to the wiring diagram supplied at the back of this manual for more specific information about wiring connections.

Under normal use, the motor draws approximately 12 amps at 220V. We recommend a 15 amp circuit breaker for 220V operation. This should be satisfactory for normal use while providing enough protection for the circuits. Also, be sure the wires in your circuit are rated for 15 amp service.

This machine does not come supplied with a plug, therefore a suitable 220V plug must be wired in. When operating at 220V, we recommend using a NEMA-style L6-15 plug and outlet. **See Figure 1A**. You may also "hard-wire" the machine directly to your panel, provided you place a disconnect switch near the machine. Check the electrical codes in your area for specifics on wiring requirements.

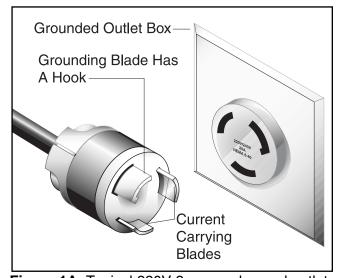


Figure 1A. Typical 220V 3-prong plug and outlet.



# 110V Operation

The G4186Z Bandsaw motor can be wired to operate at 110V. **See Figure 1B.** Under normal 110V use, the motor draws approximately 24 amps. We recommend a 30 amp circuit breaker, including wires in the circuit rated to handle 30 amps.

We also recommend that the circuit you use should be dedicated, (i.e., the G4186Z should provide the only draw from that circuit). If frequent circuit failures occur when using the bandsaw, contact our Service Department or your local electrical contractor.

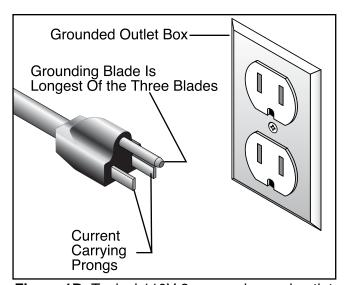


Figure 1B. Typical 110V 3-prong plug and outlet.



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# Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing electric current a path of least resistance. This tool is equipped with a power cord having an equipment-grounding conductor. **See Figure 1.** The outlet must be properly installed and grounded in accordance with all local codes and ordinances.



## **AWARNING**

This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstances should the grounding pin from any three-pronged plug be removed. Serious injury may occur.



# **Extension Cords**

We do not recommend the use of extension cords on 220V equipment. It is much better to arrange the placement of your equipment and the installed wiring to eliminate the need for extension cords. Should it be necessary to use an extension, make sure the cord is rated Hard Service (Grade S) or better. Refer to the chart in Section 1: Safety Instructions to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.



# **Wiring Diagram**

Your Model G4186Z Bandsaw comes pre-wired for 220 volt operation. A wiring diagram is provided at the back of this manual should it be necessary to repair or revise the wiring. Always utilize a qualified electrician when doing any electrical work on this equipment.

# **A**CAUTION

We have covered some basic electrical requirements for the safe operation of your bandsaw. These requirements are not necessarily comprehensive. You must be sure that your particular electrical configuration complies with local and state codes. Ensure compliance by checking with your local municipality or a licensed electrician.



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# **SECTION 3: INTRODUCTION**

# Commentary

We are pleased to offer the Model G4186Z 18" Bandsaw. The Model G4186Z is part of the Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

The Model G4186Z is a woodcutting bandsaw with a 17½" clearance left of the blade and a maximum cutting height of 9¾". It also features a 2 H.P. dual voltage motor, cast iron wheels, double-locking aluminum fence, tilting table, rack and pinion guide adjustment and handwheel tensioning. It features an all steel construction frame and cast iron table. Grizzly also offers a complete line of blade replacements as well as accessories for your saw. Consult the current Grizzly catalog for prices and ordering information.

We are also pleased to provide this instructional manual with the Model G4186Z 18" Bandsaw. This instruction manual was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible. If you have any comments regarding this manual, please write to us at the address below:

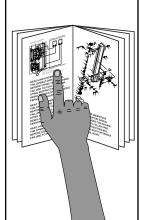
Grizzly Industrial, Inc. c/o Technical Documentation P.O. Box 2069 Bellingham, WA 98227-2069 Most important, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

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Fax: (800) 438-5901
E-Mail: grizzlytech@grizzly.com
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Address after fall, 2001:

Grizzly Industrial, Inc 1203 Lycoming Road Pennsdale, PA 17756

The specifications, drawings, and photographs illustrated in this manual represent the Model G4186Z 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. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, we urge you to insert the new information with the old and keep it for reference.



# **AWARNING**

Read the manual before assembly and operation. Become familiar with the machine and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.



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# Unpacking

The bandsaw is shipped from the factory in a carefully packed crate. If you find the machine to be damaged after you have signed for delivery, and the truck and driver are already gone, you will need to file a freight claim with the carrier. Save the containers and all packing materials for inspection by the carrier or their agent. Without the packing materials, filing a freight claim can be difficult. If you need advice regarding this situation, please call us immediately.

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



# **AWARNING**

The model G4186Z is a heavy machine (345 lbs. shipping weight). DO NOT over-exert yourself while unpacking or moving your machine – get assistance.



# WARNING

If moving this machine up or down stairs, the machine must be dismantled and moved in smaller pieces. Make sure the stairs are capable of supporting the combined weight of the machine parts and the people moving them.

# CAUTION

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



# **Parts Inventory**

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

- Bandsaw Unit
- Table
- Table Bracket
- Fence
- Fence Rails
- Miter Gauge

Hardware Bag	Qty
Cap Screws 1/4" - 20 x 11/2"	4
Fence Spacers	4
Table Insert	1
Table Trunnion Knobs	2
Lock Washers %"	2
Roll Pin 3 x 10mm	1
Allen® Wrench 3mm	1
Allen® Wrench 4mm	1
Allen® Wrench 5mm	1
Round Guide Block	6
Setscrew 1/4"-20 x 1/4"	6

In the event that any parts are missing, we will be happy to replace them. Contact our Customer Service number for assistance. If any non-proprietary parts such as nuts, bolts or washers are missing, we will be happy to replace these too, but for the sake of expediency, these items can be obtained at your local hardware store.



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# 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. Avoid chlorine-based solvents as they may damage painted surfaces should they come in contact. Always follow the usage instructions on the product you choose for clean up.



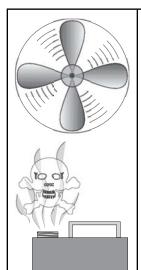
# WARNING

Do not use gasoline or other petroleum-based solvents to clean with. They have low flash points which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur.



# **AWARNING**

Do not smoke while using solvents. A risk of explosion or fire exists and may result in serious personal injury.



# **A**CAUTION

Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Always work in well-ventilated areas far from potential ignition sources when dealing with solvents. Use care when disposing of waste rags and towels to be sure they do not create fire or environmental hazards.



# **Site Considerations**

### FLOOR LOAD

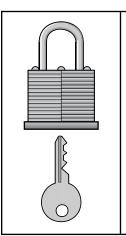
Your Model G4186Z Bandsaw represents a large weight load in a small footprint. Most commercial or residential shop floors should be sufficient to carry the weight of the machine. If you have any question about the floor structure being able to support the weight, contact your local city building inspector or a qualified civil engineer or contractor.

### **WORKING CLEARANCES**

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands and/or work tables. Also consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely run your machines in any foreseeable operation.

### LIGHTING AND OUTLETS

Lighting should be bright enough to eliminate shadow and prevent eye strain. Electrical circuits should be dedicated or large enough to handle combined motor amp loads. Outlets should be located near each machine so power or extension cords are not obstructing high-traffic areas.



# **A**CAUTION

Make your shop "child safe." Ensure that your workplace is inaccessible to youngsters by closing and locking all entrances when you are away. Never allow visitors in your shop when assembling, adjusting or operating equipment.



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# **SECTION 4: ASSEMBLY**



# WARNING

Keep loose clothing out of the way of machinery and keep hair pulled back.



# **AWARNING**

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



## AWARNING

Wear safety glasses during the entire assembly process. Failure to comply may result in serious personal injury.



# CAUTION

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

# **Beginning Assembly**

Most of your Model G4186Z Bandsaw has been assembled at the factory, but some parts must be assembled or installed after delivery. We have organized the assembly process into steps. Please follow along in the order presented here.

**TOOLS REQUIRED:** You will need an adjustable square, 12mm and 14mm open end wrenches and a Phillips® and regular screwdriver.



# Table and Support Bracket

The bandsaw table comes with the table trunnions already attached. These trunnions mount to the trunnion support bracket which needs to be mounted to the bandsaw unit before the table can be installed. To attach the bandsaw table:

 Remove the two trunnion support bracket mounting bolts from the bandsaw body. Note the two alignment holes shown in Figure 2.

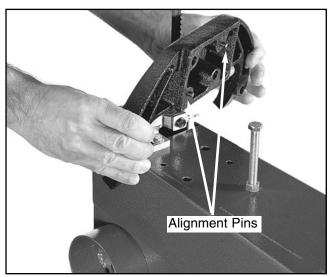


Figure 2. Alignment pins on bracket support.

2. Position the bracket over the alignment holes on the bandsaw body. Alignment pins are located on the bottom of the table support bracket. Secure the bracket with the two bolts. See Figure 3.

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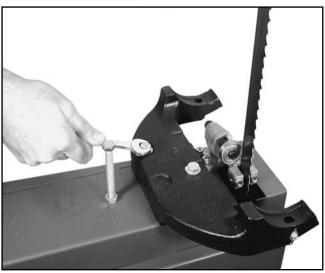


Figure 3. Trunnion support in correct position.

 Before you place the table on the trunnion support, install the blade guides and thumbscrews that hold them in place. See Figure 4.

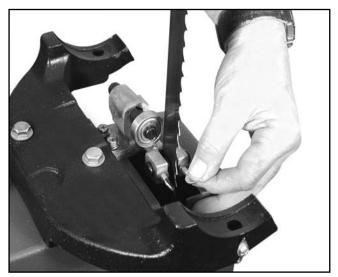


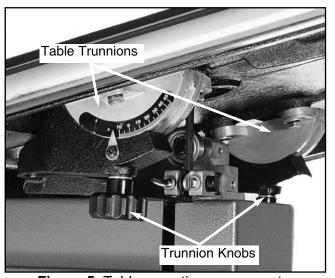
Figure 4. Installing blade guide assemblies.

- **4.** Remove the tapered pin from the slot in the table edge.
- 5. Move the table past the blade through the table slot, rotate the table 90°, and set the table trunnions onto the bracket. Make sure the trunnion bolts drop through the support bracket. Remember to position the table so that the miter slot is to the right of the blade as you face the front of the bandsaw.
- **6.** Secure the table to the support bracket by securing the two trunnion knobs (shown in **Figure 5**) onto the trunnion bolts.

7. Place the round table insert in the table top and replace the tapered pin so it fits snugly in the hole on the side of the table. Do not use excessive force.

# CAUTION

The tapered table pin should always be in position when operating the bandsaw. Operating without the pin can allow a step in the table top which can catch your workpiece during cutting. Serious personal injury may occur if this caution is ignored.



**Figure 5.** Table mounting components.



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# Rails and Fence

When installing the fence, notice that the front and back edges of the table have two threaded holes. These holes accept the round spacers and socket head cap screws that attach the fence rails to the table. **To install the rails and fence:** 

1. Place the two spacers in the table, similar to **Figure 6.** 

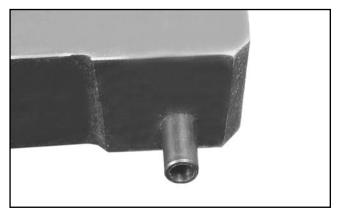


Figure 6. Spacer in table recess.

- **2.** Slide one of the rails into the circular casting at the front of the fence.
- 3. Slide the cap screws through the rail and spacers, and tighten the cap screws as shown in Figure 7, so the rail is secured to the table. Be sure the fence rail is mounted so that it extends beyond the left edge of the table as shown in Figure 8.

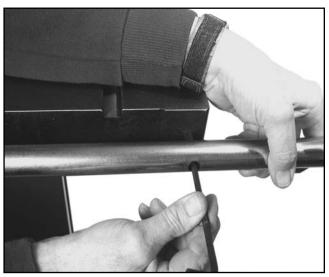


Figure 7. Securing the rail to the table.

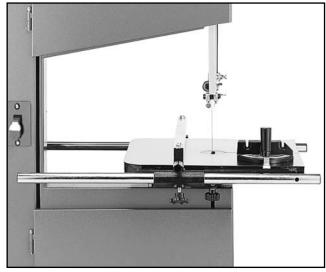


Figure 8. Rail and fence assembly.

- 4. Slide the back rail into the fence rear lock and secure the rail to the back edge of the table with the cap screws and spacers provided.
- **5.** Check to make sure that the fence moves smoothly along the fence rails.

See the **Adjustments Section** for more information on how to align the table and fence to the blade.

### For quick fence removal and replacement:

The easiest way to remove the fence is to remove the cap screws from the rail and slide the rail through the fence. This procedure will prevent you from having to remove the blade and will avoid all the adjustments associated with tracking and tension when you install the blade again.



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# AWARNING

Disconnect power to the machine when changing or adjusting blades. Failure to do this may result in serious personal injury.

# **Blades**

A 5%" blade is included with the bandsaw and is already installed on the machine. When removing or installing blades, make sure the power is disconnected and moving parts have come to a complete stop.

### To remove the blade:

- 1. Back the upper and lower guide block assemblies, support bearings away from the blade, and raise the blade guard up and away from the table.
- **2.** Release the blade tension by turning the tension handwheel counter-clockwise.
- **3.** Remove the table insert and the tapered table pin.
- **4.** Open the top and bottom wheel covers, and slide the blade guard off of the mounting screws.
- **5.** Put on leather gloves to protect your hands. Pull the blade straight off the wheels, rotate 90° and feed through the table slot.

### To install the blade:

- 1. With leather gloves protecting your hands, hold the blade in both hands so the blade teeth in your right hand are pointing down.
- 2. Feed the blade into the slot in the table. Turn the blade 90° and position the blade over the top and bottom wheels. See Figure 9. The teeth of the blade must be pointing down toward the table.

- Apply tension to the blade by turning the tension control knob. Rotate the upper wheel by hand as tension is applied to allow the blade to center itself on the wheel. Adjust tracking if needed. See Adjustment section.
- **4.** Readjust upper and lower blade guides and support bearings. See **Adjustment** section.



Figure 9. Fitting blade over upper wheel.

# **AWARNING**

This concludes the assembly process. Please DO NOT operate this saw until you have reviewed the Safety Information and have read the Adjustment and Operation Sections. Serious injury may occur.

# WARNING

Like any machine of its type, the Model G4186Z has some inherent dangers, which, when used with a lack of care, can result in serious injury or fatality. Please do not attempt to use this machine without familiarizing yourself with the instructions for assembly, adjustment, and safe operation. Failure to do so could result in serious personal injury.



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# **SECTION 5: ADJUSTMENTS**



# **AWARNING**

Keep loose clothing out of the way of machinery and keep hair pulled back.



# AWARNING

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



# **AWARNING**

Wear safety glasses during the entire adjustment process. Failure to comply may result in serious personal injury.

# **Controls**

# WARNING

Do not make adjustments while the bandsaw is running. Ensure that the switch is off, power is disconnected, and moving parts have stopped before making adjustments. Check adjustments while power is still disconnected by manually turning the bandsaw wheel by hand. Serious personal injury may occur if this warning is ignored.

General control and adjustment locations are shown in **Figures 10-12**.

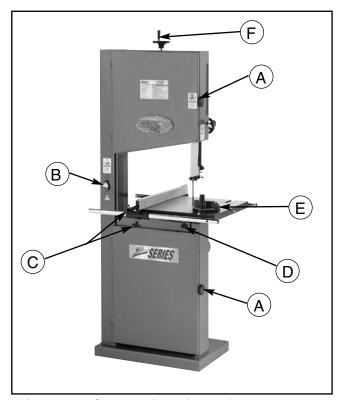


Figure 10. Controls from front of machine view.

- A. These two knobs allow the wheel cover doors to be opened for access to the blade. These doors must never be opened while the machine is running.
- **B.** This is the power ON/OFF switch.
- **C.** This knob and handle lock the fence into position.
- **D.** These are the trunnion lock knobs. These allow the table to be tilted 10° left and 45° right. Never attempt to loosen or tighten these while the machine is running.
- **E.** The miter gauge slides in the milled groove in the table and can be set from 90° to 45° left and right. Use the miter gauge for crosscutting and miter-cutting.
- **F.** This handwheel is used to control the blade tension. Turning the wheel clockwise increases the tension, while tuning counterclockwise decreases the tension.

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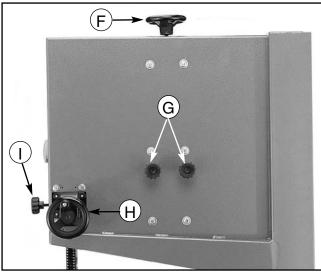


Figure 11. Controls from back of machine view.

- **G.** These knobs control blade tracking. Note that the knobs have lock nuts to lock the tracking in place.
- H. The upper guide can be easily adjusted using this handwheel. Adjust it to within 1/4" of the workpiece for optimum blade support.
- I. This knob locks the upper blade guide assembly in position. Do not operate the bandsaw without locking the guide post knob.



Figure 12. Lower wheel adjustment hub.

J. This hub controls the lower wheel movement. Each bolt on the hub moves that portion of the wheel in or out. For example, the top bolt controls the top of the wheel, the left bolt controls the left of the wheel and so forth.

# **Blade Tension**

Proper blade tensioning is important for optimum bandsaw performance. **See Figure 11** for the location of the bandsaw tension controls.

Since a wide range of blades will work well in this saw, proper blade tension ultimately depends on the type and the size of blade you use. Thinner blades require less tension than wide blades. Too much tension will result in blade breakage. A properly tensioned blade will track the cutting line accurately and the cut will be smoother.

Proper blade tension can best be achieved by determining the amount of blade deflection:

- Ensure that the power is off and the saw is unplugged. Raise the upper guide assembly all the way.
- 2. Press, with moderate pressure, on the face of the blade with your thumb. The blade should flex about 1/8".
- **3.** Turn the tensioning knob at the top of the machine to change the amount of tension.

If the tension seems correct, make the other adjustments to the saw (making wheels coplanar, aligning guides, tracking, speed, table and fence) and test run the bandsaw. If the blade is not cutting properly, the tension may be incorrect and you will need to re-adjust the tension. Remember to reduce the blade tension when the saw will not be in use; this will help to prevent premature wear or breakage of the blade and/or rubber tires.



# CAUTION

The bandsaw blade is dangerously sharp. Use extreme caution when working near the saw blade. Failure to exercise care could result in severe injury.

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# **Blade Tracking**

Blade tracking involves positioning the blade on the wheels of the bandsaw. There are two methods of tracking: **Center Tracking** and **Coplanar Tracking**. Center tracking, the easiest, is simply adjusting the tilt of the upper wheel so the blade rides in the middle of the rubber tire. This adjustment works together with the slight crown on the tire to center the blade when the wheels spin.

### To adjust the blade using center tracking:

- Disconnect the bandsaw from the power source. Adjust the upper and lower guide blocks and the support bearings away from the blade.
- 2. Loosen the lock nuts on the tracking control knobs, and turn the knobs clockwise or counterclockwise while turning the upper wheel by hand. A slight amount of twist of the upper wheel can occur if these knobs are not adjusted evenly. This can result in tracking problems for smaller blades. When turning the wheel by hand, ensure that there are no sharp edges to cut your hand.
- 3. Turn the upper wheel and the tracking knobs until the blade is centered on the crown of the upper wheel tire. Turn the wheel at least three more full turns to ensure that the blade is tracking in its final position.
- **4.** Retighten the lock nuts, double check blade tracking, and then close the upper wheel cover.

**Coplanar Tracking** is a more difficult process but provides longer blade life and allows straighter cuts. To learn more about this, read the next section on **Aligning Wheels.** 



# Wheel Alignment

Wheel alignment is one of best ways to ensure that you get optimal performance from your bandsaw.

When both wheels are aligned, or coplanar (see **Figure 13**), the bandsaw is more likely to cut straight without wandering. Vibration, heat, and blade wear are also considerably decreased.

For the best performance, verify that your wheels are coplanar when you first get your bandsaw.

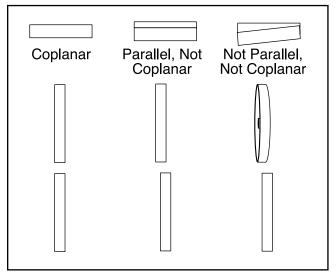


Figure 13.

Before measuring the wheels for being coplanar, you should always tighten the blade to the degree that it will be used during operation. The wheels may be coplanar with the blade loose, then be pulled out of alignment when the blade is tightened. **To check the wheel alignment:** 

- 1. Unplug the bandsaw!
- 2. The body of the bandsaw does not allow you to place a regular straightedge across both wheels at the same time. To overcome this situation, you need make a coplanarity gauge. A 55" x 2" x 4" board will work well for this. Joint one side or make sure that one side is straight. Refer to **Figure 14** for more details on how to make this gauge.

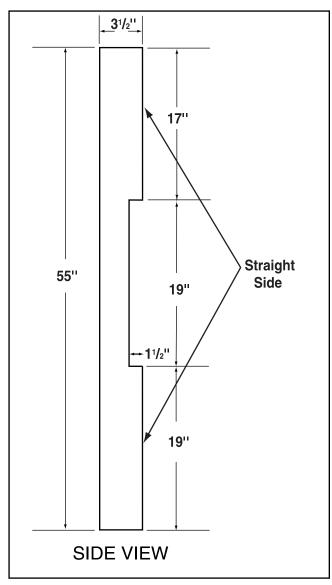


Figure 14. Coplanarity gauge.

- After you have made your coplanarity gauge, remove the fence and table, then open both wheel covers.
- 4. Make sure the guide blocks and rear support bearings are away from the blade, then tighten your blade to the tension that it will be used during operation.



**5.** Place your gauge up against both wheels in the positions shown in **Figure 15**.

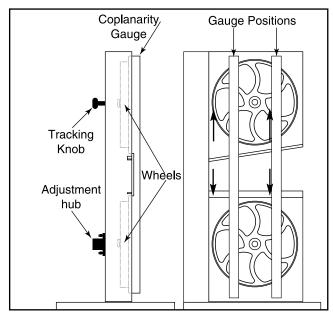


Figure 15. Coplanarity gauge placement.

6. Adjust the tracking knob to get both wheels coplanar. If the wheels will not go coplanar to each other, then move the lower wheel at the adjustment hub so they line up. If you are not familiar with the lower wheel adjustment hub, refer to the "Controls" section.



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# **Blade Guides**

Whenever changing a blade or adjusting tension and tracking, the upper and lower blade support bearings and guide blocks must be re-adjusted. Always adjust the assemblies away from the blade before installing a new blade or making blade tracking adjustments. After blade tension and tracking are set correctly, re-adjust the upper and lower support bearings and the guide block assemblies into position. See Figures 16 and 17 for locations.

### **UPPER GUIDES**

Adjustment of the upper guides is a two-part procedure, consisting of adjustments to both the support bearings and the guide blocks.

**Support Bearings -** The support bearing runs against the back edge of the blade to keep it from being pushed out of position by the advancing workpiece. To adjust the support bearing, loosen the thumbscrews securing the support bearing shaft. Push or pull the shaft so that the upper support bearing is within <sup>1</sup>/<sub>64</sub>" of the back edge of the blade. Retighten the thumbscrews.

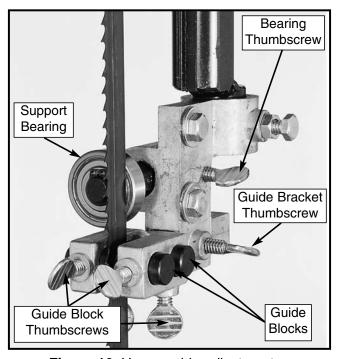


Figure 16. Upper guide adjustments.

Guide Blocks - The guide blocks ensure that the blade is not pushed too far laterally. To adjust the guide blocks, loosen the thumbscrews that secure the guide block shafts. Adjust them evenly so that the front of the blocks are 1/64" behind the gullet line of the blade. Tighten these thumbscrews. Now loosen the guide block thumbscrews. The ideal distance between the blade and each guide block is .004". This measurement is approximately the same as the thickness of a piece of paper or a dollar bill. For a quick gauge, fold a dollar bill in half, slide it over the blade so each half covers each side of the blade. Set the blade guides so each one touches the dollar bill. Be careful not to move the blade in either direction while you are performing this adjustment. Tighten the blade guides. The result of this adjustment should leave a .004" distance between the blade and each of the blade guides.

### **LOWER GUIDES**

Adjustments for the lower guides are identical to those for the upper guides, except that the bearing and guide block positioning is controlled by setscrews. Use **Figure 17** to identify the lower guide assembly components.



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# **A**CAUTION

The bandsaw blade is dangerously sharp. Use extreme caution when working near the saw blade. Failure to exercise care could result in severe injury.

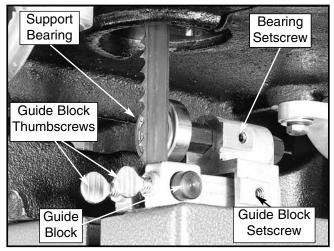


Figure 17. Lower guide adjustments.



# **Table Adjustment**

The bandsaw table will tilt left 10° and right 45° from horizontal. There is a positive stop adjusting stud so the table can be reset perpendicular to the blade after tilting it left or right.

### To tilt the table:

Loosen the two knobs below the trunnions.
 See Figure 18 for knob location.

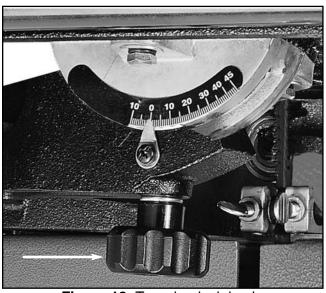


Figure 18. Trunnion lock knob.

- 2. Position the table to the desired angle. Refer to the angle gauge on the table support bracket.
- 3. Tighten the knobs.

If you are setting the table tilt to the left, first tilt the table to the right, loosen the check nut on the positive stop adjusting stud, remove the stud, and then tilt the table to the left. **Figure 19** shows the table in its maximum left tilt position.

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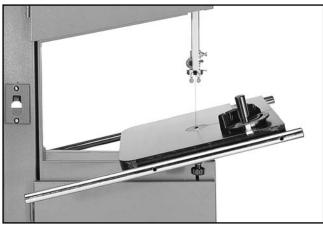


Figure 19. Table in maximum left tilt position.

# To adjust the positive stop so the table will be perpendicular (90°) to the blade:

- **1.** Loosen the two knobs and the checknut securing the positive stop adjusting stud.
- Raise the upper blade guide assembly and place a 6" machinist's square or try-square on the table against the blade. See Figure 20. Adjust the positive stop adjusting stud so that the table will stop at a 90° angle to the blade.

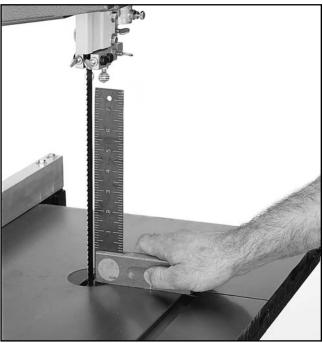


Figure 20. Checking blade to table.

3. Secure the knobs and lock the positive adjusting stud by tightening the checknut. Ensure that the stud does not turn while tightening the checknut. Set the angle pointer to zero.

The table should also be 90° to the back edge of the blade. If the table is not perpendicular to the back of the blade, shim the table in the desired direction with washers. Remove the trunnion bolts and add washers between the table and the trunnion so the table tilts in the desired direction. **See Figure 21.** Electrical washers are a good choice for shimming because they are very thin and will allow fine adjustment.

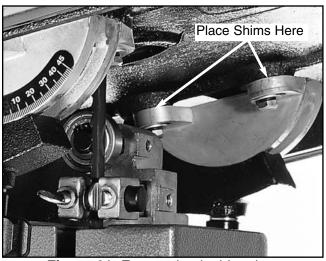


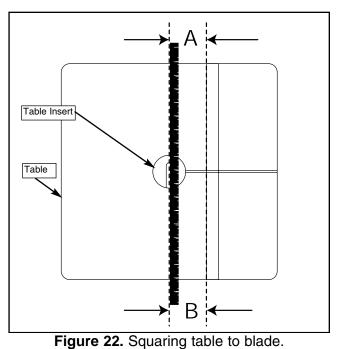
Figure 21. Front to back shimming.

# The table can also be shifted side to side to properly align the miter slot and the blade:

- 1. Loosen the 6 trunnion bolts underneath the table.
- 2. Install the largest width blade available. Lay a straightedge along the blade and inspect it closely to make sure it is parallel to the blade. Make sure there is no deflection of the blade from the straightedge.
- 3. Measure the distance between the edge of the miter gauge slot and the straightedge at points A and B. See Figure 22. Distance A should be approximately equal to distance B. Adjust the table slightly until these distances are equal.

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4. Secure the table by retightening the trunnion bolts. Recheck the table position to ensure that unwanted shifting did not occur during retightening.



**Belt Tensioning** 

The motor and motor mounting plate are already assembled in the base of the saw. **See Figure 23.** In the event any disassembly of the bandsaw is required, you may need to realign the motor pulley and the lower wheel pulley.



Figure 23. Motor mounting plate.

### To perform the alignment:

1. Check for proper pulley alignment by placing a straightedge on the outside edge of the upper pulley so that it overlaps the motor pulley. If the straightedge does not touch both pulleys evenly, the pulleys are not aligned. Loosen one or both of the pulley setscrews on their shafts and slide the pulleys toward alignment. Remember to retighten the setscrews when finished. See Figure 24.



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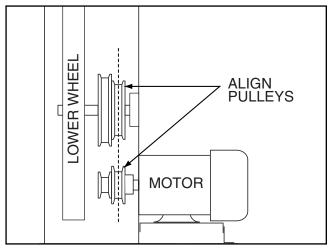


Figure 24. Wheel to pulley alignment.

- 2. Adjust the belt tension by pivoting the motor along the circular slot. Proper tension is achieved when the belt can be deflected roughly 1/2" with moderate finger pressure.
- Tighten the nuts and bolts securely. Recheck the belt tension and pulley alignment.



# **Dust Collection**

The G4186Z has an integral 4" dust port built into the lower wheel housing. You will achieve the best results if you connect the machine to a dust collection system when you are using the saw. This helps to keep the blade and the wheels clear of chips and dust. Plus, there is the added benefit of having less dust put into the air of your shop. Connect your dust collection hose securely to this port using hose clamps, and activate the dust collection system at the time you start the bandsaw.



# **Changing Speeds**

The Model G4186Z offers 3100 and 2000 F.P.M. speeds. To change the speed:

- 1. Unplug the bandsaw from the power supply!
- 2. Loosen the lock bolt on the body of the bandsaw, near the motor.
- Pivot the motor up to loosen the V-belt. Move the V-belt into one of the grooves shown in Figure 25, depending on the desired speed.
- 4. Pivot the motor down and tighten the lock bolt. Proper tension is achieved when the belt can be deflected roughly 1/2" with moderate finger pressure. Check the belt tension and adjust if necessary.

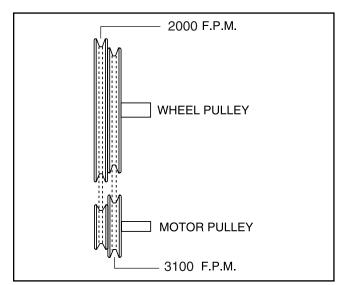


Figure 25. Wheel to pulley alignment.



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# **Fence Adjustment**

Align the fence to the miter slot by first loosening the (2) bolts nearest the operator. **See Figure 26.** Lock the front rail lock knob and measure between the front edge of the fence and the front edge of the miter slot. Compare this to a measurement taken at the back of the fence and the miter slot. Swing the fence to correct for any difference and measure again. When you are satisfied that both of the front and back measurements are equal, carefully tighten the two bolts at the top of the fence.

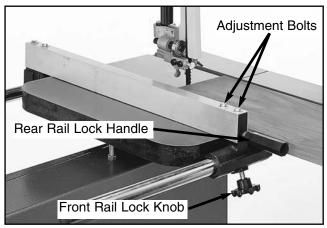


Figure 26. Fence adjustment and controls.

Fence operation is controlled by the handle and knob located on the front of the fence. The handle, when screwed tight, locks the fence to the rear rail. The knob on the lower side of the fence, when screwed tight, locks the fence to the front rail. To change the fence position, loosen the handle and knob, and slide the fence along the rails. To relock the fence, always tighten the lower knob first (this helps the fence to square itself to the rails), then lock the top handle to secure the fence.

Read the "Ripping" instructions before using the fence.



# **Test Run**

Once assembly is complete, adjustments are done to your satisfaction and tools are safely put away, you are ready to test run the machine.

# **ACAUTION**

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

# WARNING

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

If you cannot easily locate the source of an unusual noise or vibration, contact our Service Department for help.

If the bandsaw runs smoothly, make a cut into a piece of scrap lumber. If a problem exists, stop the machine and review all the adjustments. Call for assistance if needed.



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# **SECTION 6: OPERATIONS**



# **AWARNING**

Keep loose clothing out of the way of machinery and keep hair pulled back.



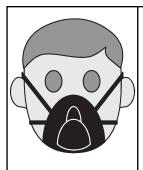
# **▲**WARNING

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



# **AWARNING**

Wear safety glasses during the entire operation process. Failure to comply may result in serious personal injury.



# **A**CAUTION

Always wear a dust mask when operating the bandsaw. Using this machine produces sawdust which may cause allergic reactions or respiratory problems.

### **NOTICE**

The following section was designed to give instructions on the basic operations of this bandsaw. However, it is in no way comprehensive of every bandsaw application. There are many different jigs that can be built to increase the safety and accuracy of different kinds of cuts. WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training to maximize the potential of your bandsaw.

The bandsaw is one of the most versatile machines in the shop. It can cut miters, compound angles, simple and complex curves, circles, and a wide variety of irregular shapes. It can also rip and crosscut, as well as cut a variety of joints. The bandsaw will also resaw stock into thinner boards.

# **Pre-Run Check**

There are many adjustment points and compensating differences to consider when operating this type of saw. Therefore, cutting results can be somewhat unpredictable if some or all of the crucial adjustments are neglected. Here are a few simple things you can do to increase the predictability of your bandsaw performance:

- 1. Always use a sharp, high-quality blade.
- 2. Use the right blade for the job. Resawing with a 1/16" blade or doing scrollwork with a 1" blade are extreme examples of using the wrong blade for the job.
- 3. Allow the saw to cut. Do not force the workpiece into the blade. Remember that while negotiating a curve, the blade should still be cutting the wood. Simply turning the workpiece will only bind the blade and could break it.
- **4. Maintain your bandsaw in top condition.** See the following section of this manual for maintenance procedures.



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# **Bandsaw Blades**

A bandsaw blade is a delicate piece of steel that is subjected to tremendous strain. Be sure you use quality blades of the proper width for the various types of cutting operations. The Grizzly G4186Z 18" Bandsaw accepts 130" blades.

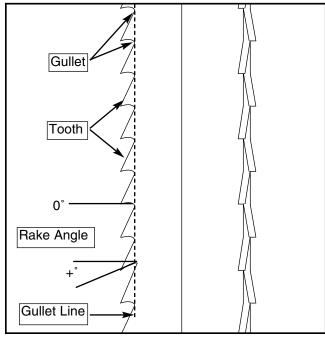
Always use the widest blade possible for the workpiece you are cutting. Use narrow blades only for sawing small, abrupt curves and for fine, delicate work. Bandsaw blades can be purchased welded, set, and sharpened ready-for-use from most saw shops. We also supply bandsaw blades in widths of 1/4", 3/8", 1/2", and 3/4" and 1" for this saw. Please refer to our current catalog for prices and ordering information.

Always select and use good-quality saw blades and choose the right blade for the job. Poor quality blades and improper use are often the cause of premature blade failure.

Many conditions can lead to breakage. Blade breakage is, in some cases, unavoidable, since it is the natural result of the peculiar stresses that bandsaw blades are subjected to. Blade breakage is also due to avoidable causes. Avoidable breakage is most often the result of poor care or judgement on the part of the operator when mounting or adjusting the blade or support guides. The most common causes of blade breakage are: (1) faulty alignment and adjustment of the guides; (2) forcing or twisting a wide blade around a curve or short radius; (3) feeding too fast; (4) tooth dullness or absence of sufficient set; (5) excessive tension; (6) upper blade guide assembly set too high above the workpiece; (7) using a blade with a lumpy or improperly finished weld; and (8), continuously running the bandsaw when not in use.

There are several key factors to consider in choosing a blade:

**Tooth Pitch -** The number of teeth per inch (TPI) on the blade, also known as tooth pitch. Select a pitch which will assure that at least three teeth, but not more than twelve, are contacting the workpiece while cutting. This helps to distribute the cutting forces and avoids tooth breakage.



**Figure 26.** Side and front views of a standard bandsaw blade.

**Tooth Form -** There are four common forms of teeth on the blade:

**Regular** - Also called standard, teeth are evenly spaced and the rake angle is 0° (**See Figure 26**). Provides a smooth cut and is great for cutting curves.

**Hook** - Large gullets and teeth with a positive rake angle, very aggressive cutting. Good for resawing and ripping thick stock.

**Skip** - Similar to hook with a 0° rake angle, also good for resawing and ripping thick stock.

Tooth Set - Set is the degree to which the

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teeth are bent away from plane of the blade:

**Raker** - The most common with one tooth offset to the right, the next one to the left, and the third is straight.

**Wave** - Will have 3-4 teeth bent progressively one direction, then to the other in a wave-like pattern.

**Straight** - Alternating teeth set right, then left.

Blade Gauge and Material - Gauge is the thickness of the blade measured near the back edge. Generally thick blades are wider and stiffer. The blade material can range from carbon steel to spring steel to bimetallic composition.

**Blade Width -** This is the measurement of the blade from the tip of a tooth to the back edge. The wider the blade, the less of a radius it can cut.

Always select and use good-quality saw blades and choose the right blade for the job. Discuss your cutting requirements with your saw blade dealer to make sure you are getting the type of blade which best suits your need.



# **Changing Blades**

To remove the blade, ensure the power is disconnected and:

- Loosen tension on the blade by turning the tension control knob counterclockwise when facing the front of the saw. See Figure 27.
- 2. Remove the table insert and table pin.
- **3.** Adjust upper and lower guide blocks away from the blade.
- 4. Before handling the blade, put on gloves. Open the upper and lower wheel covers and slide the blade off both wheels. Use caution, the blades are sharp!
- **5.** Rotate the blade 90° so it will slide through the slot in the table.

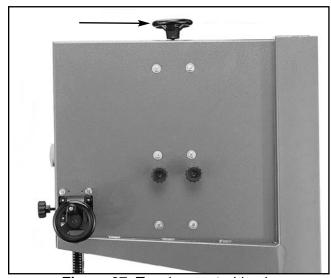


Figure 27. Tension control knob.

To replace the blade, ensure that the power is disconnected, you are wearing gloves and:

- 1. Slide the blade through the table slot, ensuring that the teeth are pointing down toward the table.
  - If the teeth will not point downward in any orientation, the blade is inside out. **See Figure 26** for typical blade geometry. Put on heavy gloves, remove the blade, and twist it until it is rightside out. Reinstall the blade.
- 2. Slip the blade through the upper and lower guides, and mount it over the upper and lower wheels.
- 3. Apply tension to the blade by turning the tension control knob. Refer to the blade tensioning instructions earlier in the Adjustments Section.

## **NOTICE**

When removing or installing wide blades, it may be convenient to completely remove the upper and lower guide blocks. Don't forget to replace them before cutting!

- **4.** Rotate the upper wheel manually and check the blade tracking.
- Adjust the upper and lower guide blocks, as well as the upper and lower guide bearings as described earlier in this section.
- Close the wheel covers. Turn the guard knobs on the wheel covers to lock them shut.
- **7.** Replace the table insert and table pin, being sure not to use excessive force.

# **AWARNING**

Use extreme caution when replacing blades. Teeth are dangerously sharp and coiled blades are prone to spring when released from their packaging. Use gloves and safety glasses/goggles whenever handling blades. Failure to do so could result in serious personal injury.



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# Ripping

Ripping is the process of cutting a wide board into two or more thinner boards. **See Figure 28.** The maximum board width that can be ripped is limited by the maximum throat dimension of the bandsaw. Maximum cutting width for this bandsaw is  $17^{1}/_{4}$ ".

For ripping, a wider blade is better. In most ripping applications, a standard raker tooth style will be sufficient. Also, since most ripped lumber will be jointed smooth, you can choose blades with fewer teeth-per-inch.

### To perform ripping operations:

- 1. The bandsaw must be adjusted correctly. See "Blade Tension/Tracking" instructions and "Table Adjustment" instructions.
- 2. Adjust the blade guard so it is just above the workpiece with a minimum amount of blade exposed. Read instructions on "Blade Lead" before making a cut.
- **3.** Use a fence to guide the work. Set the distance between the fence and the blade to the desired width.
- **4.** Support the ends of the board if necessary.
- **5.** Feed the work slowly and evenly with the straightest edge against the fence.

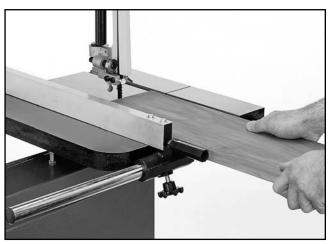


Figure 28. Typical ripping operation.



# **Stacked Cuts**

One of the benefits of a bandsaw is its ability to cut multiple copies of a particular shape by stacking a number of workpieces together.

Before making stacked cuts, it is essential to ensure that both the table and the blade are properly adjusted to 90°. Otherwise, any error will be compounded with each piece from the top to the bottom of the stack.

### To complete a stacked cut:

- **1.** Align your pieces from top to bottom to ensure that each piece has adequate scrap to provide a clean, unhampered cut.
- **2.** Using brads in the waste portion of each piece, secure all the pieces together.
- **3.** Lay out the shape you intend to cut on the face of the top piece.
- **4.** Adjust the blade guard so it is just above the workpiece with a minimum amount of the blade exposed.
- Make relief cuts perpendicular to the outline of your intended shape in areas where changes in blade direction could strain the blade.
- 6. Cut the stack of pieces as though you were cutting a single piece. Follow the layout line with the blade kerf on the waste side of your line.



# **Cutting Curves**

When cutting curves, simultaneously feed and turn the stock carefully so that the blade follows the layout line without being twisted. If a curve is so abrupt that you need to repeatedly back up and cut a new kerf, use either a narrower blade or a blade with more set. A blade with more set can cut relatively tighter radii; however, the cut is usually rougher than cuts produced by blades with medium set.

Always make short cuts first, then proceed to the longer cuts. Relief cuts will also reduce the chance that the blade will be pinched or twisted. Relief cuts are cuts made through the waste portion of the workpiece and stopped at the layout line. As you cut along the layout line, waste wood is released from the workpiece, alleviating any pressure on the back of the blade. Relief cuts also make backing the workpiece out easier, if needed. The table below lists blade widths and corresponding minimum radii each blade will cut.

BLADE WIDTH	MINIMUM RADII
<sup>1</sup> / <sub>8</sub> "	<sup>3</sup> / <sub>16</sub> "
<sup>3</sup> / <sub>16</sub> "	<sup>5</sup> / <sub>16</sub> "
1/4"	5/8"
3/8"	<b>1</b> ¹/₂"
1/2"	2 1/2"
<sup>5</sup> / <sub>8</sub> "	4"
3/4"	5 <sup>1</sup> / <sub>2</sub> "

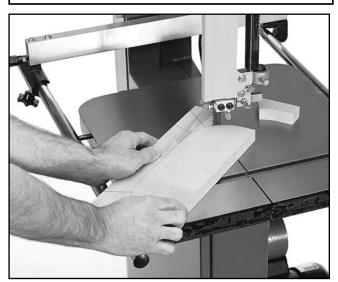


Figure 29. Typical curve cutting operation.



# Resawing

Resawing (**See Figure 30**) is the process of cutting the thickness of a board into two or more thinner boards. Each new board is the same width and length as the original board, but the thickness is less. The maximum board width that can be resawn is limited by the maximum cutting height of the bandsaw. The maximum cutting height for this bandsaw is  $9^3/8^{\circ}$ .

The most important consideration when resawing is blade selection. When selecting a blade, keep in mind that generally a wider blade is easier to control.

In most applications a hook or skip tooth style will work fine. Also, since most resawn lumber will be planed smooth, you can choose blades with fewer teeth per inch (3 to 6). While blades with fewer teeth per inch produce rougher cuts, these types of blades offer larger gullet capacities for clearing sawdust, produce less heat, and yield more horsepower per tooth.

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# **NOTICE**

When operating with wide blades, run the bandsaw at the slowest speed.

### To resaw lumber, follow the procedure below:

- **1.** The blade must be adjusted correctly for tension and tracking.
- **2.** The table must be square to the blade.
- **3.** Adjust the blade guard so it is just above the workpiece with a minimum amount of blade exposed.
- 4. Use the widest blade that will fit this saw (1" to 1¹/₄"). The blade must also be sharp and in good condition. Read "Blade Lead" instructions.
- **5.** Use the fence to guide the work.
- **6.** Support the ends of the board if necessary.
- 7. Feed the work slowly and evenly.

# **AWARNING**

Do not force the wood into the blade during cutting. This will distort the blade, cause excessive heat and often results in blade breakage. Breakage can cause lacerations, cuts, or serious personal injury.

When resawing, consider using an auxiliary fence that is higher than the standard fence. This provides a more solid surface for the workpiece to slide against. An auxiliary fence can be made from any straight and flat piece of lumber and can be bolted or screwed to the standard fence.

When using a fence to guide the board, the actual line of cut may not be exactly parallel to the fence. In fact, most bandsaw blades will not cut exactly parallel to the fence. This is due to a number of reasons involving the configuration of the table, condition of the blade, the cutting forces, and the blade tension. To correct this condition, refer to the "Blade Lead" instructions on the next page.



Figure 30. Resawing with an auxiliary fence.



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# **Blade Lead**

Most bandsaw blades will not cut straight when using the fence or miter gauge. This is called "lead." See **Figure 31.** Lead occurs (1) if the blade tension is incorrect, (2) if the teeth are dull on one side, or (3) if the teeth are set heavier on one side of the blade than the other.

If you notice that your blade is not cutting straight (i.e. leading) while using the fence or miter gauge:

- 1. Check that the fence is parallel to the blade line
- 2. Check that you have proper blade tension. If the blade tension is correct and you do not want to replace the blade, compensate for lead by skewing the fence or adjusting the table.

### To skew your fence:

- 1. Obtain a piece of scrap wood that is approximately <sup>3</sup>/<sub>4</sub>" thick x 3" wide x 17" long. On a wide face of the board, draw a straight line parallel to the long edge.
- 2. Slide the fence out of the way and cut freehand along the line. Stop at the halfway point. Turn the bandsaw off and wait for the blade to stop.
- Clamp the board to the bandsaw table without moving it. Now slide the fence over to the board so it barely touches one end of the board.
- Loosen the two skewing cap screws on top of the fence. (Refer back to Figure 25 for details on skewing fence.)
- 5. Skew the fence left or right so it is parallel to the edge of the scrap piece. You may need to readjust the fence locking mechanisms to gain maximum adjustment.
- **6.** While maintaining the skew, tighten the cap screws.

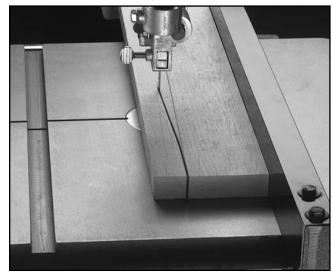


Figure 31. Blade leading away from line of cut.

To compensate for lead if making straight crosscuts using the miter gauge, you will need to shift the table. To do this:

- On a scrap piece of wood, mark a line that is perpendicular to the front edge. Starting where the line begins, cut the board by pushing it through the blade with the miter gauge.
- Loosen the table mounting bolts according to the instructions about "Table Parallelism." Shift the table to compensate for the blade lead.
- Repeat steps 1 and 2 until the blade cuts straight when wood is pushed through with the miter gauge.

# **NOTICE**

If the table is shifted, the fence will be affected since it is attached.

# **NOTICE**

Lead adjustments will change when new blades are mounted in the saw.



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# **SECTION 7: MAINTENANCE**



# **AWARNING**

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

# Lubrication

Shielded and pre-lubricated ball bearings require no lubrication for the life of the bearings. All bearings are standard sizes, and replacements can be purchased from our parts department or a bearing supply store.

As for other items on this machine, such as adjustment controls, an occasional "shot" of light oil is just about all that is necessary. Before applying, however, wipe off any sawdust with a clean cloth, towel, or dry paint brush, and spray on the lubricant. Ensure that oil does not get on the pulleys or V-belts because it could cause belt deterioration and slipping.



# **Miscellaneous**

Always be aware of the condition of your bandsaw before using it. Routinely check the condition of the following items and repair or replace as necessary:

- **1.** Loose bolts on the stand, table or fence systems.
- 2. Worn switch or electrical cords.
- **3.** Worn or damaged blade.
- 4. Proper blade tensioning.
- 5. Worn V-Belt.
- **6.** Worn or damaged support bearings or guide bearings.

# **Table**

The table and other non-painted surfaces on the Model G4186Z should be protected against rust and pitting. Wiping the saw clean after every use ensures that wood dust is not allowed to trap moisture against bare metal surfaces.

Tables can be kept rust-free with regular applications of products like Boeshield® T-9. For long term storage you may want to consider products like Kleen Bore's Rust Guardit™. See the Grizzly catalog for other table maintenance applications.



# V-Belts

To ensure optimum power transmission from the motor to the blade, the V-belt must be in good condition and operate under proper tension. Belts should be checked for cracks, fraying and wear. Belt tension should be checked at least every 3 months; more often if the bandsaw is used daily.

The V-belt is accessed via the bottom cover:

- **1.** Squeeze the center of each V-belt.
- 2. Note the amount of deflection. Deflection should be approximately ½" with moderate pressure.



# **Maintenance Notes**

Date	Approximate Hours Of Use	Maintenance Performed



# **SECTION 8: CLOSURE**

The following pages contain general machine data, parts diagrams and Warranty/Return information for your Model G4186Z 18" Bandsaw.

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

If you have comments dealing specifically with this manual, please write to our Bellingham, Washington location using the address in **Section 3: Introduction**. The specifications, drawings, and photographs illustrated in this manual represent the Model G4186Z as supplied when the manual was prepared. However, due to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, add the new information to this manual and keep it for reference.

We have included some important safety measures that are essential to this machine's operation. While most safety measures are generally universal, Grizzly reminds you that each workshop is different and safety rules should be considered as they apply to your specific situation.

# **AWARNING**

Operating this equipment has the potential for flying debris to cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).



We recommend you keep a copy of our current catalog for complete information regarding Grizzly's warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department listed in **Section 3: Introduction**.

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

# **AWARNING**

Like all power tools, there is danger associated with the Model G4186Z Bandsaw. Use these tools with respect and caution to lessen the possibility of mechanical damage or operator injury. If normal safety precautions are overlooked or ignored, injury to the operator or others in the area is likely.

# WARNING

The Model G4186Z was specifically designed for wood cutting operations. DO NOT MODIFY AND/OR USE THIS BANDSAW FOR ANY OTHER PURPOSE. Modifications or improper use of this tool will void the warranty. If you are confused about any aspect of this machine, DO NOT use it until you have answered all your questions. Serious personal injury may occur.



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# **TROUBLESHOOTING**

SYMPTOM POSSIBLE CAUSE		CORRECTIVE ACTION		
Motor will not start.	<ol> <li>Low voltage.</li> <li>Open circuit in motor or loose connections.</li> </ol>	Check power line for proper voltage.     Inspect all lead connections on motor for loose or open connections.		
Motor will not start; fuses or circuit breakers blow.	<ol> <li>Short circuit in line cord or plug.</li> <li>Short circuit in motor or loose connections.</li> <li>Incorrect fuses or circuit breakers in power line.</li> </ol>	shorted wires.  2. Inspect all connections on motor for loose or shorted terminals or worn insulation.		
Motor overheats.	Motor overloaded.     Air circulation through the motor restricted.	Reduce load on motor.     Clean out motor to provide normal air circulation.		
Motor stalls (resulting in blown fuses or tripped circuit).	<ol> <li>Short circuit in motor or loose connections.</li> <li>Low voltage.</li> <li>Incorrect fuses or circuit breakers in power line.</li> <li>Motor overloaded.</li> </ol>	<ol> <li>Inspect connections on motor for loose or shorted terminals or worn insulation.</li> <li>Correct the low voltage conditions.</li> <li>Install correct fuses or circuit breakers.</li> <li>Reduce load on motor.</li> </ol>		
Machine slows when operating.	<ol> <li>Applying too much pressure to workpiece.</li> <li>Blade is dull.</li> <li>Belt is loose.</li> </ol>	<ol> <li>Feed workpiece slower.</li> <li>Replace blade.</li> <li>Tighten belt.</li> </ol>		
Blade does not run evenly on wheels or runs off.	<ol> <li>Tracking is not adjusted properly.</li> <li>Rubber tire on wheel is damaged or worn.</li> <li>Wheels are not coplanar.</li> </ol>	<ol> <li>Adjust tracking.</li> <li>Replace rubber tires.</li> <li>Adjust wheel coplanarity.</li> </ol>		
Blade does not cut evenly	<ol> <li>Blade tension is incorrect.</li> <li>Tooth set is uneven.</li> <li>Teeth are sharper on one side than the other.</li> </ol>	<ol> <li>Adjust tension.</li> <li>Replace blade, or have it professionally sharpened.</li> <li>Replace blade, or have it professionally sharpened.</li> </ol>		
Ticking sound when the saw is running.	Blade weld contacting support bearing.     Blade weld may be failing.	Use file or stone to smooth and round the back of the blade.     Inspect and replace blade if necessary.		
Blade contacting table insert.	Excessive side pressure when cutting.     Table improperly adjusted.	Reduce side pressure.     Adjust table.		
Excessive vibration.	<ol> <li>Wheels not coplanar.</li> <li>Tires incorrectly installed.</li> <li>Bent or worn out blade.</li> <li>Wheels out of balance.</li> </ol>	<ol> <li>Adjust wheels coplanar.</li> <li>Re-install tires.</li> <li>Replace blade.</li> <li>Replace wheels</li> </ol>		
Burn marks on the edge of the cut.	Too much side pressure when feeding workpiece.     Blade too wide for size of radius being cut.	<ol> <li>Feed workpiece straight into the blade.</li> <li>Install a smaller width blade, and/or increase blade tension.</li> </ol>		

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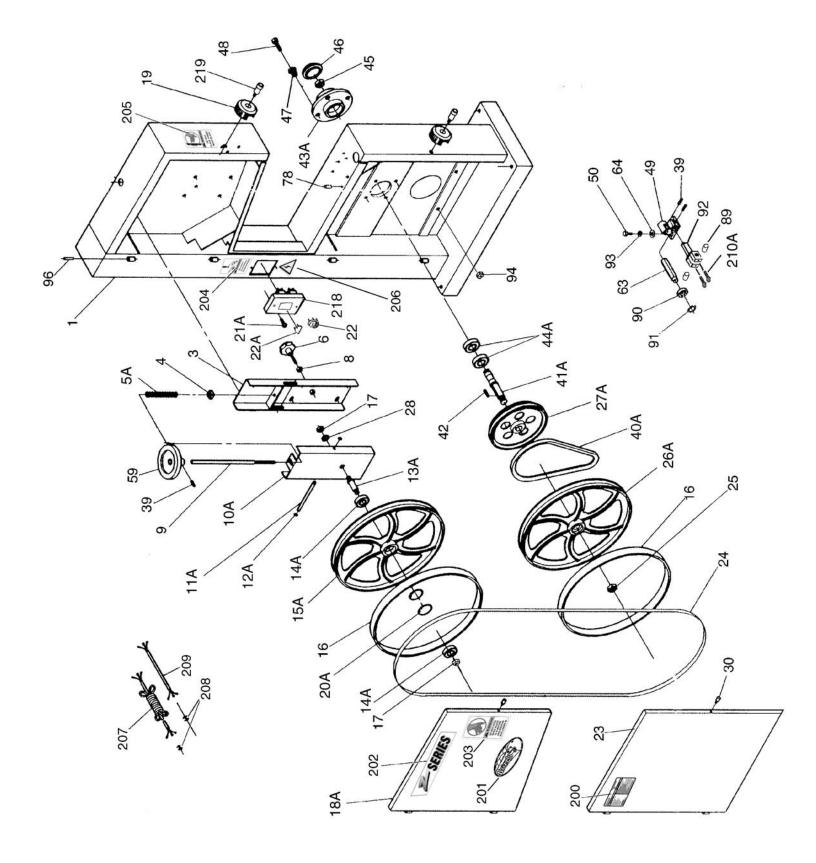
## MACHINE DATA SHEET

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

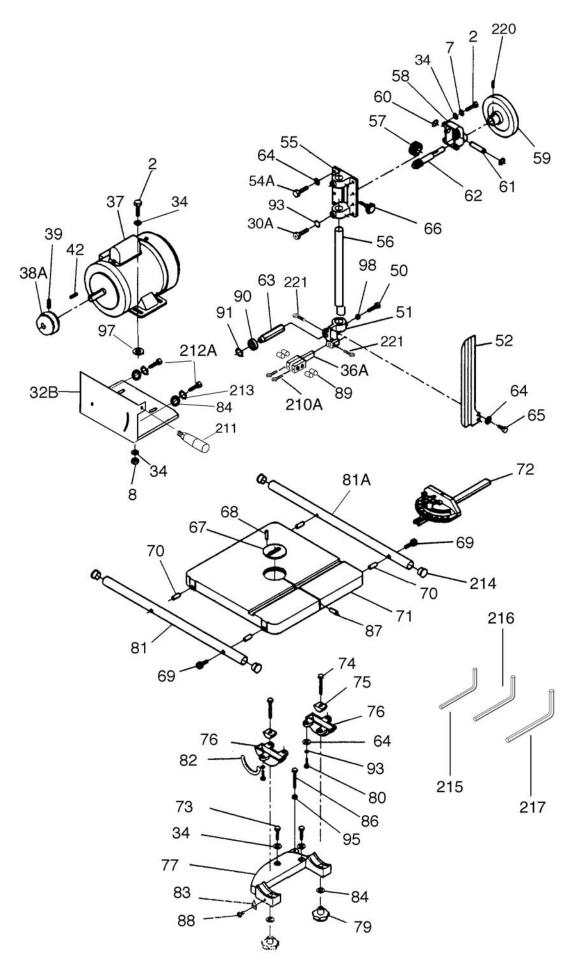
#### **GRIZZLY MODEL G4186Z BANDSAW**

Design Type:	Floor Model
Occasil Discounting	
Overall Dimensions:	173/" v 173/ v 11/" Think
	17¾" x 17¾ x 1½" Thick
•	34¾"
	32"
•	26½"
•	375 lbs.
	345 lbs.
	72½" L x 29" W x 16" H
	25" x 16"
Cutting Capacity:	
	17½"
	93%"
Table Tilt	45° R - 10° L
Construction:	
Table	Precision Ground Cast Iron
Body	Preformed Steel
Wheels	Balanced Cast Iron with Rubber Tire
Rip FenceDouble L	ock, Adjustable, Extruded Aluminum Guide
•	Pre-Formed Steel
	Steel Guide Blocks With Thrust Bearings
Motor:	ğ.
Type	TEFC Capacitor Start Induction
	2 H.P.
	Single-Phase / 60 Hz
	110V/220V
•	220V
	24/12
	Shielded and Permanently Lubricated Ball
	Grizzly Paddle
Blade:	Glizzly Faudle
	130"
Features:	3100 & 2000 F.P.M.
	D   0 D; ;
	Rack & Pinion Upper Guide Adjustment
	Miter Gauge
	Fence
	Powder Coated Paint

Specifications, while deemed accurate, are not guaranteed.



G4186Z 18" Bandsaw -37-



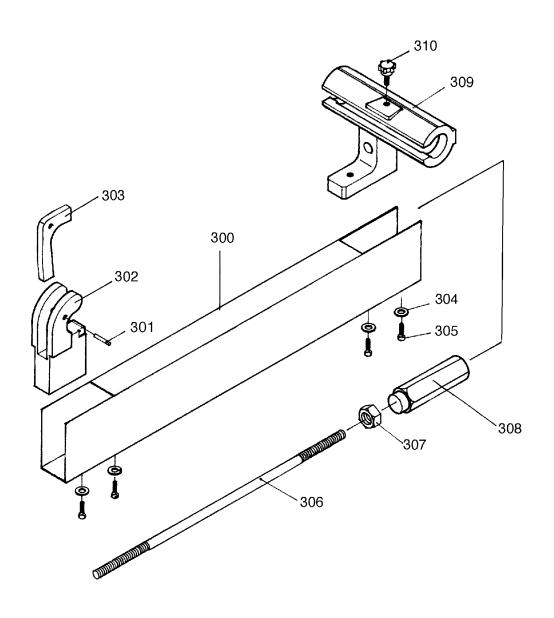
-38- G4186Z 18" Bandsaw

# **PARTS LIST**

DEE	DADT #	DESCRIPTION
KEF	PART #	DESCRIPTION
01	P4186Z001	BODY
	PB32	HEX BOLT 5/16"-18 X 5/8"
03	P4186Z003	WHEEL BRACKET
04	P4186Z004	NUT
	P4186Z005A	SPRING-N/S
	P4186Z006	TRACKING KNOB
	PLW01	LOCK WASHER 5/16"
	PN02	HEX NUT 5/16"-18
	P4186Z009	ADJUSTING SCREW
$\overline{}$		UPPER WHEEL BRACKET-CI
	P4186Z011A	TILT AXLE-CI
	PN03M	HEX NUT 8MM
$\overline{}$	P4186Z013	UPPER WHEEL SHAFT-CI
	P6203	BEARING 6203 ZZ
		UPPER WHEEL-CAST IRON
16	P1012029	WHEEL PROTECTOR
17	PN01 P4186Z018A	HEX NUT ½" -20
	P4186Z018A	UPPER GUARD-N/S
	PR23M	GUARD LOCKING KNOB INT RETAINING RING 40MM
	PS01	SCREW 10 -24 X ½"
		SWITCH
		SWITCH KEY
23		LOWER GUARD
	SEE CATALOG	
		HEX NUT ¾" -18 LH
		LOWER WHEEL-CAST IRON
		PULLEY-2 SPEED
	PLW07	LOCK WASHER ½"
	PSB17	CAP SCREW 1/4"-20 x 3/8"
32B	P4186Z032B	MOTOR PLATE
34	PW07	WASHER 5/16"
	P1012007A	GUIDE BLOCK HOLDER-CI
	P4186Z037	MOTOR
38A	P4186Z038A	MOTOR PULLEY- 2 SPEED
	PSS04	SET SCREW 1/4" -20 x 5/16"
	PVA37	V-BELT A-37
-	P4186Z041	SHAFT-N/S
	PK36M	KEY 5 x 5 x 50mm
	P4186Z043A	BEARING BASE-CAST IRON
	P6005	BEARING 6005 ZZ
	PN03	HEX NUT ¾" -16
46	P4186Z046	BEARING COVER
47	P4186Z047 PB11	ADJUSTING SCREW
48	P1019055	HEX BOLT 5/16" -18 x 11/2"  LOWER BLADE SUP BRKT
50	PB02	HEX BOLT 1/4" -20 x 5/8"
51	P1012005	SUPPORT BRACKET
52	P4186Z052	BLADE GUARD
	PB32	HEX BOLT 5/16" -18 x 5/8"
	PB05	HEX BOLT 1/4" -20 x 3/4"
	P4186Z055	GUIDE BAR BRACKET
56	P4186Z056	GUIDE BAR
57	P4186Z057	WORM GEAR
58	P4186Z058	GEAR BOX
	P4186Z059	HAND WHEEL
60	P4186Z060	EXT RETAINING RING
61	P4186Z061	GEAR SPINDLE
	-	

P4186Z062   WORM	REF	PART #	DESCRIPTION
63 P1012013 SPACING SLEEVE 64 PW06 FLAT WASHER ¼" 65 PB51 SCREW ¼" -20 x ¾" 66 P4186Z066 LOCK KNOB 67 P1012044 TABLE INSERT 68 PRP44M ROLL PIN 3 x 10MM 69 PSB62 CAP SCREW ¼"-20 x 1½" 70 P1012102 RAIL SPACER 71 P1012047 TABLE 72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION CLAMP SHOE 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P101201 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾" -16 x 4" 87 P4186Z077 TABLE 87 P4186Z078 LOCATING PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-19 HAND NEAR BLADE LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220L POWER CORD 220V LONG 210 PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HEX BOLT ¾"-16 × "-16 × "-16 × "-10 × "-16 × "-10	62	P41867062	WORM
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66 P4186Z066 LOCK KNOB 67 P1012044 TABLE INSERT 68 PRP44M ROLL PIN 3 x 10MM 69 PSB62 CAP SCREW ½"-20 x 1½" 70 P1012102 RAIL SPACER 71 P1012047 TABLE 72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2½" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION CLAMP SHOE 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P41862078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾" -16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ½" 98 PN05 HEX NUT ¾"-16 99 P186E200 IDWARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 203 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-19 HAND NEAR BLADE LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z200 STRAIN RELIEF 209 PWRCRD220L POWER CORD 220V LONG 208 P4186Z201 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¼" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 3mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
67 P1012044 TABLE INSERT 68 PRP44M ROLL PIN 3 x 10MM 69 PSB62 CAP SCREW ¼"-20 x 1½" 70 P1012102 RAIL SPACER 71 P1012047 TABLE 72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION SUPPORT BRKT 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¾" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¾"-16 99 PN05 HEX NUT ¾"-16 90 P4186Z090 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HOND FAR BLADE LABEL 204 PLABEL-19 DO NOT OPEN LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HAND LE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 3mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
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69 PSB62 CAP SCREW ¼"-20 x 1½" 70 P1012102 RAIL SPACER 71 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION SUPPORT BRKT 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¾"-16 99 P109Z071 GUIDE BLOCK HOLDER 90 P6200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 203 PLABEL-20 DO NOT OPEN LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW05M ALLEN WRENCH 5mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
70 P1012102 RAIL SPACER 71 P1012047 TABLE 72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012054 GAUGE 83 P1012054 GAUGE 83 P1012054 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾" -16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾6" 98 PN05 HEX NUT ¼" 200 P4186Z090 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
71 P1012047 TABLE 72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾6" 98 PN05 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾6"-16 x 1" 213 PLW04 LOCK WASHER ¾6" 211 P4186Z211 HANDLE 2121 PA102110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
72 P1012105 MITER GAUGE 73 PB58 HEX BOLT ¾" -16 x 2" 74 PB35 HEX BOLT ¾" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-19 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220K MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HEX BOLT ¾"-16 x 1" 212 PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
73 PB58 HEX BOLT %" -16 x 2" 74 PB35 HEX BOLT %" -16 x 2½" 75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION SUPPORT BRKT 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ½" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ½"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ½"-16 96 P4186Z097 RUBBER WASHER ½"6" 98 PN05 HEX NUT ½" 200 P4186Z000 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-19 HAND NEAR BLADE LABEL 203 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220B MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HEX BOLT ¾"-16 x 1" 212 PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
74         PB35         HEX BOLT %" -16 x 2½"           75         P1012049         TRUNNION CLAMP SHOE           76         P1012050         TRUNNION           77         P4186Z078         LOCATING PIN           79         P1012052         CROSS KNOB           80         PB05         HEX BOLT ¼" -20 x ¾"           81         P1012101         FENCE RAIL           82         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER ¾"           86         P4186Z086         HEX BOLT ¾" -16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ½"           94         PL86209         RUBBER WASHER ¾"-16 <th< td=""><td></td><td></td><td></td></th<>			
75 P1012049 TRUNNION CLAMP SHOE 76 P1012050 TRUNNION 77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ½" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¾"-16 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ½"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 200 P4186Z097 RUBBER WASHER ¾" 200 P4186Z00 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-18 DISCONNECT POWER LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-14 ELECTRICITY LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 5mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
76         P1012050         TRUNNION           77         P4186Z077         TRUNNION SUPPORT BRKT           78         P4186Z078         LOCATING PIN           79         P1012052         CROSS KNOB           80         PB05         HEX BOLT ¼" -20 x ¾"           81         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER ¾"           86         P4186Z086         HEX BOLT ¾"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"           96         P4186Z096         HINGE PIN           97         P4186Z096         HINGE PIN           98         PN05         HEX NUT ¾"           200			
77 P4186Z077 TRUNNION SUPPORT BRKT 78 P4186Z078 LOCATING PIN 79 P1012052 CROSS KNOB 80 PB05 HEX BOLT ¼" -20 x ¾" 81 P1012101 FENCE RAIL 82 P1012054 GAUGE 83 P1012053 INDICATOR 84 PW02 FLAT WASHER ¾" 86 P4186Z086 HEX BOLT ¾"-16 x 4" 87 P4186Z087 TABLE PIN 88 PS23 PHLP HD SCR 8-32 x ¼" 89 P1012008 ROUND GUIDE BLOCK 90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¼" 200 P4186Z000 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-19 HAND NEAR BLADE LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220L POWER CORD 220V LONG 208 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-20 X ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
78         P4186Z078         LOCATING PIN           79         P1012052         CROSS KNOB           80         PB05         HEX BOLT ¼" -20 x ¾"           81         P1012011         FENCE RAIL           82         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER ¾"           86         P4186Z086         HEX BOLT ¾"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK WASHER ¼"           94         PLN01         LOCK WASHER ¼"           95         PN08         HEX NUT ¾"           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾6"           98         PN05         HEX NUT ¼"           200			
79         P1012052         CROSS KNOB           80         PB05         HEX BOLT 1/4" -20 x 3/4"           81         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER 3/6"           86         P4186Z086         HEX BOLT 3/6"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x 1/4"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER 1/4"           94         PLN01         LOCK NUT 3/6"-16           95         PN08         HEX NUT 3/6"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER 5/46"           98         PN05         HEX NUT 1/4"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-15         "Z" SERIES LABEL <td>78</td> <td></td> <td></td>	78		
80         PB05         HEX BOLT 1/4" -20 x 3/4"           81         P1012101         FENCE RAIL           82         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER 3/6"           86         P41862086         HEX BOLT 3/6"-16 x 4"           87         P41862087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x 1/4"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER 1/4"           94         PLN01         LOCK NUT 3/6"-16           95         PN08         HEX NUT 3/6"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER 5/46"           98         PN05         HEX NUT 1/4"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL			
81         P1012101         FENCE RAIL           82         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER %"           86         P4186Z086         HEX BOLT %"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾6"           98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-18         DISCONNECT POWER LABEL			HEX BOLT 1/4" -20 x 3/4"
82         P1012054         GAUGE           83         P1012053         INDICATOR           84         PW02         FLAT WASHER %"           86         P4186Z086         HEX BOLT %"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           95         PN08         HEX NUT ¼"           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾"-16           98         PN05         HEX NUT ¼"           200         P4186Z007         RUBBER WASHER ¾"-16           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-18         DISCONNECT POWER LABEL			
R3			
84         PW02         FLAT WASHER %"           86         P4186Z086         HEX BOLT %"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT %"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ½"           98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-18         DISCONNECT POWER LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           207         PWRCRD220E         PO			
86         P4186Z086         HEX BOLT %"-16 x 4"           87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾"-           98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-5         "Z" SERIES LABEL           204         PLABEL-19         HAND NEAR BLADE LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-19         HAND NEAR BLADE LABEL           207         PWRCRD2208			FLAT WASHER %"
87         P4186Z087         TABLE PIN           88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾"           98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-18         DISCONNECT POWER LABEL           204         PLABEL-19         HAND NEAR BLADE LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           210A         PTS006			
88         PS23         PHLP HD SCR 8-32 x ¼"           89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¾"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-5         "Z" SERIES LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006			
89         P1012008         ROUND GUIDE BLOCK           90         P6200         BALL BEARING 6200           91         PR01M         EXT RETAINING RING 10mm           92         P1019Z071         GUIDE BLOCK HOLDER           93         PLW02         LOCK WASHER ¼"           94         PLN01         LOCK NUT ¾"-16           95         PN08         HEX NUT ¾"-16           96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER ¼"-           98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-5         "Z" SERIES LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006 <t< td=""><td></td><td></td><td></td></t<>			
90 P6200 BALL BEARING 6200 91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-18 DISCONNECT POWER LABEL 204 PLABEL-19 HAND NEAR BLADE LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
91 PR01M EXT RETAINING RING 10mm 92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-5 "Z" SERIES LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾"			
92 P1019Z071 GUIDE BLOCK HOLDER 93 PLW02 LOCK WASHER 1/4" 94 PLN01 LOCK NUT 3/6"-16 95 PN08 HEX NUT 3/6"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER 5/16" 98 PN05 HEX NUT 1/4" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-5 "Z" SERIES LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW 1/4"-20 X 3/4" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT 3/6"-16 x 1" 213 PLW04 LOCK WASHER 3/8" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW 1/4"-20 X 3/4"			
93 PLW02 LOCK WASHER ¼" 94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-20 DO NOT OPEN LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾4"			
94 PLN01 LOCK NUT ¾"-16 95 PN08 HEX NUT ¾"-16 96 P4186Z096 HINGE PIN 97 P4186Z097 RUBBER WASHER ¾" 98 PN05 HEX NUT ¼" 200 P4186Z200 ID/WARNING LABEL 201 G8588 GRIZZLY NAMEPLATE 202 PLABEL-5 "Z" SERIES LABEL 203 PLABEL-20 DO NOT OPEN LABEL 204 PLABEL-18 DISCONNECT POWER LABEL 205 PLABEL-19 HAND NEAR BLADE LABEL 206 PLABEL-14 ELECTRICITY LABEL 207 PWRCRD220L POWER CORD 220V LONG 208 P4186Z208 STRAIN RELIEF 209 PWRCRD220S MOTOR CORD 210A PTS006 THUMBSCREW ¼"-20 X ¾" 211 P4186Z211 HANDLE 212A PB21 HEX BOLT ¾"-16 x 1" 213 PLW04 LOCK WASHER ¾" 214 P1012110 FENCE RAIL PLUG 215 PAW03M ALLEN WRENCH 3mm 216 PAW04M ALLEN WRENCH 4mm 217 PAW05M ALLEN WRENCH 5mm 218 P4186Z218 SWITCH MOUNT 219 PS02 PHILIP SCREW ¼"-20 X ¾4"	93	PLW02	LOCK WASHER 1/4"
96         P4186Z096         HINGE PIN           97         P4186Z097         RUBBER WASHER 5/16"           98         PN05         HEX NUT 1/4"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-18         DISCONNECT POWER LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW 1/4"-20 X 3/4"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT 3/8"-16 x 1"           213         PLW04         LOCK WASHER 3/8"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 5mm           218         P	94	PLN01	LOCK NUT 3/8"-16
97 P4186Z097 RUBBER WASHER 5/16"  98 PN05 HEX NUT 1/4"  200 P4186Z200 ID/WARNING LABEL  201 G8588 GRIZZLY NAMEPLATE  202 PLABEL-5 "Z" SERIES LABEL  203 PLABEL-20 DO NOT OPEN LABEL  204 PLABEL-18 DISCONNECT POWER LABEL  205 PLABEL-19 HAND NEAR BLADE LABEL  206 PLABEL-14 ELECTRICITY LABEL  207 PWRCRD220L POWER CORD 220V LONG  208 P4186Z208 STRAIN RELIEF  209 PWRCRD220S MOTOR CORD  210A PTS006 THUMBSCREW 1/4"-20 X 3/4"  211 P4186Z211 HANDLE  212A PB21 HEX BOLT 3/8"-16 x 1"  213 PLW04 LOCK WASHER 3/8"  214 P1012110 FENCE RAIL PLUG  215 PAW03M ALLEN WRENCH 3mm  216 PAW04M ALLEN WRENCH 4mm  217 PAW05M ALLEN WRENCH 5mm  218 P4186Z218 SWITCH MOUNT  219 PS02 PHILIP SCREW 1/4"-20 X 3/4"	95	PN08	
98         PN05         HEX NUT ¼"           200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	96	P4186Z096	
200         P4186Z200         ID/WARNING LABEL           201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	97	P4186Z097	RUBBER WASHER 5/16"
201         G8588         GRIZZLY NAMEPLATE           202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 5mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	98	PN05	HEX NUT 1/4"
202         PLABEL-5         "Z" SERIES LABEL           203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 5mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	200	P4186Z200	ID/WARNING LABEL
203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
203         PLABEL-20         DO NOT OPEN LABEL           204         PLABEL-18         DISCONNECT POWER LABEL           205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	202	PLABEL-5	"Z" SERIES LABEL
205         PLABEL-19         HAND NEAR BLADE LABEL           206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	203	PLABEL-20	DO NOT OPEN LABEL
206         PLABEL-14         ELECTRICITY LABEL           207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"	204	PLABEL-18	DISCONNECT POWER LABEL
207         PWRCRD220L         POWER CORD 220V LONG           208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
208         P4186Z208         STRAIN RELIEF           209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
209         PWRCRD220S         MOTOR CORD           210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
210A         PTS006         THUMBSCREW ¼"-20 X ¾"           211         P4186Z211         HANDLE           212A         PB21         HEX BOLT ¾"-16 x 1"           213         PLW04         LOCK WASHER ¾"           214         P1012110         FENCE RAIL PLUG           215         PAW03M         ALLEN WRENCH 3mm           216         PAW04M         ALLEN WRENCH 4mm           217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
211       P4186Z211       HANDLE         212A       PB21       HEX BOLT ¾"-16 x 1"         213       PLW04       LOCK WASHER ¾"         214       P1012110       FENCE RAIL PLUG         215       PAW03M       ALLEN WRENCH 3mm         216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
212A       PB21       HEX BOLT ¾"-16 x 1"         213       PLW04       LOCK WASHER ¾"         214       P1012110       FENCE RAIL PLUG         215       PAW03M       ALLEN WRENCH 3mm         216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
213       PLW04       LOCK WASHER %"         214       P1012110       FENCE RAIL PLUG         215       PAW03M       ALLEN WRENCH 3mm         216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
214       P1012110       FENCE RAIL PLUG         215       PAW03M       ALLEN WRENCH 3mm         216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
215       PAW03M       ALLEN WRENCH 3mm         216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
216       PAW04M       ALLEN WRENCH 4mm         217       PAW05M       ALLEN WRENCH 5mm         218       P4186Z218       SWITCH MOUNT         219       PS02       PHILIP SCREW ¼"-20 X ¾"			
217         PAW05M         ALLEN WRENCH 5mm           218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
218         P4186Z218         SWITCH MOUNT           219         PS02         PHILIP SCREW ¼"-20 X ¾"			
219 PS02 PHILIP SCREW 1/4"-20 X 3/4"			
219   PS02   PHILIP SCREW ¼"-20 X ¾"			SWITCH MOUNT
220   PSS02   SETSCREW 5/16"-18 X 3/8"	219	PS02	PHILIP SCREW 1/4"-20 X 3/4"
1.001   DTC000   TUIMBCODEW/ 1/# 00 V 5/#			SETSCREW 5/16"-18 X 3/8"
221   F 1 3002   1 1 1 0 W B 3 C K E W 74 - 20 X 78"	221	PTS002	THUMBSCREW 1/4"-20 X 5/8"

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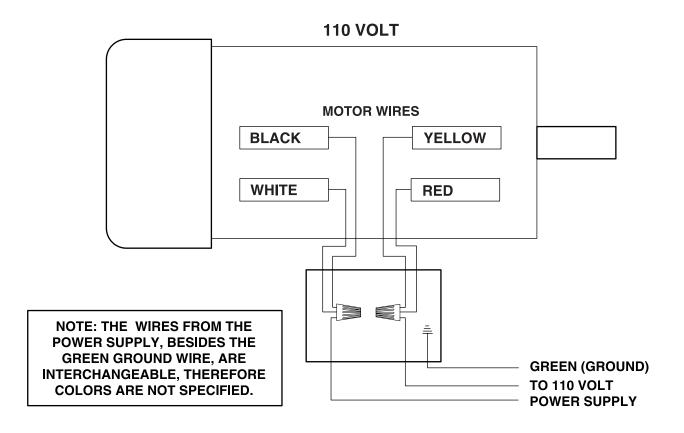


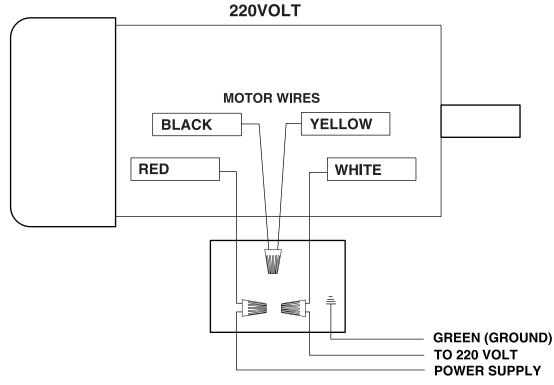
300 P	4186Z300	FENCE TUBE
301 P	4186Z301	ROLL PIN
302 P	4186Z302	REAR FENCE BRACKET
303 P	4186Z303	REAR CLAMP
304 P	W06	FLAT WASHER 1/4"
305 P	B19	HEX BOLT 1/4"-20 x 1/2"
306 P	4186Z306	CLAMP ROD
	N08	HEX NUT %"-16
308 P	4186Z308	REAR LOCKING KNOB
	4186Z309	FRONT FENCE CLAMP
310 P	4186Z310	FRONT LOCKING KNOB

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### **G4186Z Wiring Diagram**





G4186Z 18" Bandsaw -41-

### 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.

-42- G4186Z 18" Bandsaw

### **WARRANTY CARD**

EL #G4186Z 18" E  lowing information is given on a way, all information is strictly confide  How did you learn about us? AdvertisementCatalogWorld Wide WebOther  Which of the following magazines doAmerican Woodworker	E-Mail BandsawE-Mail Voluntary basis. It will be used for mential. FriendCard Deck			r products and services. Of
lowing information is given on a very all information is strictly confide  How did you learn about us? AdvertisementCatalogWorld Wide WebOther  Which of the following magazines doAmerican Woodworker	voluntary basis. It will be used for m intial. Friend Card Deck	narketing	purposes to help us develop better	r products and services. Of
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How did you learn about us?  Advertisement Catalog World Wide Web Other Which of the following magazines do American Woodworker	ential. FriendCard Deck			
AdvertisementCatalogWorld Wide WebOther Which of the following magazines doAmerican Woodworker	Card Deck	10.	Which benchtop tools do you own?	Check all that apply.
Catalog World Wide Web Other Which of the following magazines do American Woodworker	Card Deck	10.	Which benchtop tools do you own?	Check all that apply.
World Wide WebOther Which of the following magazines doAmerican Woodworker	_			
Which of the following magazines do			1" x 42" Belt Sander	6" - 8" Grinder
Which of the following magazines do			5" - 8" Drill Press	Mini Lathe
American Woodworker			8" Table Saw 8" - 10" Bandsaw	10" - 12" Thickness Planer Scroll Saw
	o you subscribe to.		Disc/Belt Sander Mini Jointer	Spindle/Belt Sander
	Practical Homeowner		Mirii Jointer	
Cabinetmaker	Shop Notes		Other	
Family Handyman	Today's Homeowner	4.4	Harris and the same altitude altitude	1 -b 0-ib-0
Fine Homebuilding	WOOD	11.	How many of the machines checked	above are Grizzly?
		12.	Which portable/hand held power too	ols do you own? Check all that apply.
Journal of Light Construction	Woodsmith		·	
Old House Journal	Woodwork			Orbital Sander
	Woodworker			Palm Sander Portable Planer
				Saber Saw
Fobular Woodworking	WORDERCH		Drill/Driver	Reciprocating Saw
Other			Miter Saw	Router
Which of the following woodworking	/remodeling shows do you watch?		Other	
Backyard America	The New Yankee Workshop	13.	What machines/supplies would you	like Grizzly Industrial to carry?
			12" Table Saw	Radial Arm Saw
<del></del>				Panel Saw
Other			Combination Planer/Jointer	Brass Hardware
What is your annual household inco	me?		Paint & Finishing Supplies	Lumber
\$20,000 \$20,000	\$60,000 \$60,000		Contractor o Cappiloo	
			Other	
		14	What new accessories would you like	ce Grizzly Industrial to carry?
\$50,000-\$59,999	\$90,000 +	14.	•	,
What is your age group?			Builders Hardware Fasteners	Hand Tools Wood Components
20-29	50-59		Other	
30-39	60-69			
40-49	70 +	15.	vvnat otner companies do you purch	hase your tools and supplies from?
How long have you been a woodwo	rker?			
0 - 2 Years	8 - 20 Years			
2 - 8 Years	20+ Years	16.	Do you think your purchase represe	nts good value?
How would you rank your woodwork	king skills?		Yes	No
Simple Intermediate	Advanced Master Craftsman	17.	Would you recommend Grizzly Indu	strial to a friend?
What stationary woodworking tools	do vou own? Check all that apply.		Yes	No
, 3	,	10	Would you allow us to use your name	o as a reference for Grizzly sustemer
Air Compressor	Panel Saw	10.		
			your arour recor to note acc	
			Yes	No
Horizontal Boring Machine	Spindle Sander	19.	Comments:	
Jointer	Table Saw			
Lathe	Vacuum Veneer Press			
Mortiser	Wide Belt Sander			
Other				
	Old House Journal Popular Mechanics Popular Science Popular Woodworking Other  Which of the following woodworking Backyard America Home Time The American Woodworker Other  What is your annual household inco \$20,000-\$29,999 \$30,000-\$39,999 \$40,000-\$49,999 \$50,000-\$59,999  What is your age group?  20-29 30-39 40-49  How long have you been a woodwork D - 2 Years D - 8 Years How would you rank your woodwork Simple Intermediate What stationary woodworking tools Air Compressor Band Saw Drill Press Drum Sander Dust Collector Horizontal Boring Machine Jointer Lathe Mortiser Other	Home Handyman Woodshop News Journal of Light Construction Old House Journal Woodswith Popular Mechanics Woodworker Popular Science Woodworker's Journal Popular Woodworking Workbench Other Which of the following woodworking/remodeling shows do you watch? Backyard America The New Yankee Workshop Home Time This Old House The American Woodworker Woodwright's Shop Other What is your annual household income? \$20,000-\$29,999 \$60,000-\$69,999 \$30,000-\$39,999 \$70,000-\$79,999 \$40,000-\$49,999 \$80,000-\$89,999 \$50,000-\$59,999 \$90,000 + What is your age group?  20-29 50-59 30-39 60-69 40-49 70 + How long have you been a woodworker?  0 - 2 Years 8 - 20 Years 2 - 8 Years 20+ Years How would you rank your woodworking skills?  Simple Advanced Intermediate Master Craftsman What stationary woodworking tools do you own? Check all that apply.  Air Compressor Panel Saw Band Saw Planer Drill Press Power Feeder Drum Sander Radial Arm Saw Dust Collector Shaper Horizontal Boring Machine Jointer Jointer Sander Use Cale to Shaper Horizontal Boring Machine Jointer Jointer Table Saw Lathe Wacuum Veneer Press Wide Belt Sander	Home Handyman Woodshop News Journal of Light Construction Woodwork Popular Mechanics Woodworker Popular Science Woodworker' Popular Science Woodworker' Popular Woodworking Workbench  Other  Which of the following woodworking/remodeling shows do you watch?  Backyard America The New Yankee Workshop The American Woodworker Woodwright's Shop  Other  What is your annual household income?  \$20,000-\$29,999 \$60,000-\$69,999 \$30,000-\$39,999 \$70,000-\$79,999 \$80,000-\$39,999 \$80,000-\$89,999 \$50,000-\$59,999 \$90,000 +  What is your age group?  20-29 \$50-59 \$90,000 +  What is your age group?  20-29 \$50-59 \$0-30-30 \$60-69 \$70 +  How long have you been a woodworker?  0 - 2 Years \$8 - 20 Years \$2 - 8 Years \$20 + Years \$16.  How would you rank your woodworking skills?  Simple Advanced Master Craftsman \$17.  What stationary woodworking tools do you own? Check all that apply.  Air Compressor Panel Saw Planer Panel P	Home Handyman

FOLD ALONG DOTTED LINE	
	Place Stamp Here



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

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