

MODEL G0833P POLAR BEAR SERIES® 10" HYBRID TABLE SAW W/RIVING KNIFE

OWNER'S MANUAL

(For models manufactured since 07/18)



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This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

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

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Contact Info

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

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

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

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

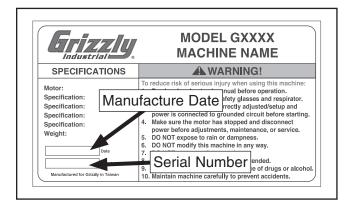
Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that sometimes the machine you receive is slightly different than shown in the manual.

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at www.grizzly.com.

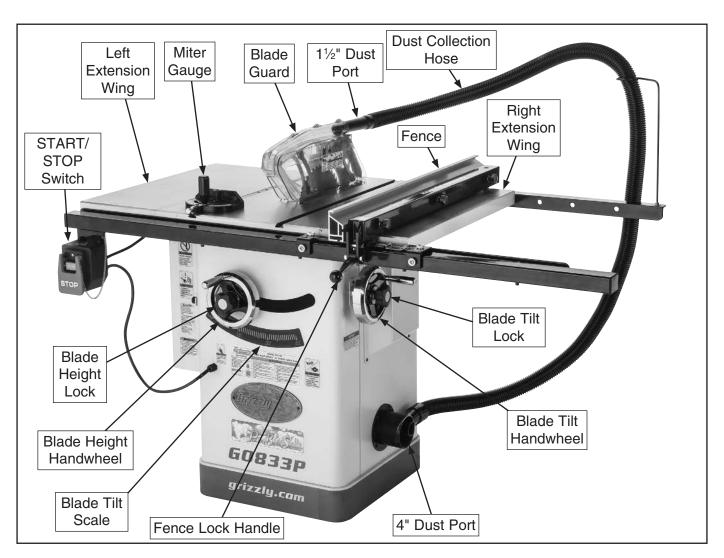
Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **Manufacture Date** and **Serial Number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.





Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.



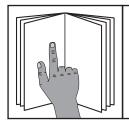
ACAUTION

For Your Own Safety Read Instruction Manual Before Operating Saw

- a) Wear eve protection.
- b) Use saw-blade guard and spreader for every operation for which it can be used, including all through sawing.
- c) Keep hands out of the line of saw blade.
- d) Use a push-stick when required.
- e) Pay particular attention to instructions on reducing risk of kickback.
- f) Do not perform any operation freehand.
- g) Never reach around or over saw blade.



Controls & Components



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

Refer to **Figures 1–3** and the following descriptions to become familiar with the basic controls of this machine.

A. START/STOP Switch: Starts and stops the motor. The switch can be disabled for safety by inserting the disabling pin or a padlock (not included) through the START button.

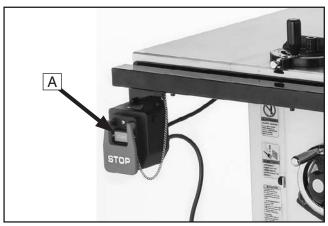


Figure 1. Location of START/STOP switch.

- **B.** Handwheel Locks: Lock blade height and angle when tightened (one on each handwheel).
- **C. Blade Tilt Handwheel:** Adjusts angle of blade tilt from 90°–45°.
- **D.** Blade Height Handwheel: Adjusts blade height from 0"-31%".

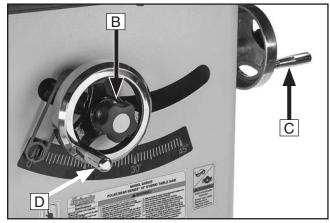


Figure 2. Blade adjustment handwheels and locks.

- **E.** Fence Lock Handle: Locks fence when pushed down, unlocks fence when pulled up.
- F. Fence: Guides workpiece as it moves into blade and determines angle of cut. Fence face can be positioned for standard cutting operations, or placed in lower position for blade guard clearance during narrow ripping operations.
- **G.** Fence Lock Knobs: Secure fence when tightened; allow fence to be repositioned along fence tube when loosened.

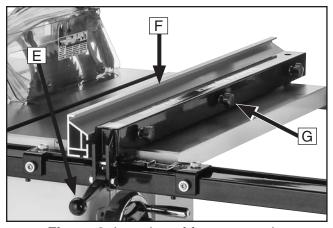


Figure 3. Location of fence controls.



Glossary of Terms

The following is a list of common definitions, terms and phrases used throughout this manual as they relate to this table saw and woodworking in general. Become familiar with these terms for assembling, adjusting or operating this machine. Your safety is **VERY** important to us at Grizzly!

- **Arbor:** A metal shaft extending from the drive mechanism that is the mounting location for the saw blade.
- **Bevel Edge Cut:** A cut made with the blade tilted to an angle between 0° and 45° to cut a beveled edge onto a workpiece. Refer to **Page 44** for more details.
- Blade Guard Assembly: Metal or plastic safety device that mounts over the saw blade. Its function is to prevent the operator from coming into contact with the saw blade. Refer to Page 37 for more details.
- Crosscut: Cutting operation in which the crosscut fence is used to cut across the shortest width of the workpiece. Refer to Page 42 for more details.
- **Dado Blade:** Blade or set of blades that are used to cut grooves and rabbets. Refer to **Page 45** for more details. The saw and arbor are not intended to safely use a larger dado blade.
- Dado Cut: Cutting operation that uses a dado blade to cut a flat bottomed groove into the face of the workpiece. Refer to Page 45 for more details.
- **Featherboard:** Safety device used to keep the workpiece against the rip fence and against the table surface. Refer to **Page 50** for more details.
- **Kerf:** The resulting cut or gap in the workpiece after the saw blade passes through during a cutting operation.
- **Kickback:** An event in which the workpiece is propelled back towards the operator at a high rate of speed.

- **Non-Through Cut:** A cut in which the blade does not cut through the top of the workpiece. Refer to **Page 30** for more details.
- **Parallel:** Being an equal distance apart at every point along two given lines or planes (i.e. the rip fence face is parallel to the face of the saw blade).
- **Perpendicular:** Lines or planes that intersect and form right angles (i.e. the blade is perpendicular to the table surface).
- **Push Stick:** Safety device used to push the workpiece through a cutting operation. Used most often when rip cutting thin workpieces. Refer to **Page 58** for more details.
- **Rabbet:** Cutting operation that creates an L-shaped channel along the edge of the workpiece. Refer to **Page 48** for more details.
- **Rip Cut:** Cutting operation in which the rip fence is used to cut across the widest width of the workpiece. Refer to **Page 39** for more details.
- **Riving Knife:** Metal plate located behind the blade. It maintains the kerf opening in the wood when performing a cutting operation. Refer to **Page 40** for more details.
- **Straightedge:** A tool used to check the flatness, parallelism, or consistency of a surface(s).
- **Thin Kerf Blade:** A blade with a kerf or thickness that is thinner than a standard blade cannot be used on this saw.
- **Through Cut:** A cut in which the blade cuts completely through the workpiece. Refer to **Page 31** for more details.





MACHINE DATA SHEET

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

MODEL G0833P 10" HYBRID TABLE SAW WITH RIVING KNIFE, POLAR BEAR SERIES

Product Dimensions:	
Weight	
	eight
Footprint (Length x Width)	20-1/2 x 19-1/2 in
Shipping Dimensions:	
Carton #1	
Type	Cardboard Box on Wood Skids
Content	Machine
Weight	
Length x Width x Height	
Must Ship Upright	Yes
Carton #2	
Туре	Cardboard Box
Content	Fence
Weight	
Length x Width x Height	37 x 15 x 7 in.
Must Ship Upright	Nc
Carton #3	
Type	Cardboard Box
Content	Rails
Weight	
Length x Width x Height	64 x 6 x 4 in
Must Ship Upright	No
Electrical:	
Power Requirement	
·	230V
S S	
<u> </u>	20A at 115V, 15A at 230V
- · · · · · · · · · · · · · · · · · · ·	Yes
S .	14 AWG
9	Yes
Included Plug Type	6-20 for 230V
• • •	5-20 for 115V
	START/STOP Push Button w/Large Shut-Off Paddle & Disabling Pin
**	P0833P224X



Motors:

Main

Horsepower	2 HP
Phase	Single-Phase
Amps	16A/8A
Speed	3450 RPM
Type	TEFC Capacitor-Start Induction
Power Transfer	
Bearings	
Centrifugal Switch/Contacts Type	Internal
ain Specifications:	
Main Information	
Table Saw Type	Hybrid
Maximum Blade Diameter	10 in.
Arbor Size	5/8 in.
Arbor Speed	3850 RPM
Maximum Width of Dado	
Blade Tilt Direction	Left
Max Blade Tilt	9
Maximum Depth of Cut At 90 Degrees	
Maximum Depth of Cut At 45 Degrees	
Max Rip Right of Blade w/Included Fence & Rails	
Max Rip Left of Blade w/Included Fence & Rails	
Additional Blade Information	
Included Blade Information	10" x 40T
Riving Knife/Spreader Thickness	0.1 in.
Required Blade Body Thickness	
Required Blade Kerf Thickness	0.102 – 0.126 in.
Rim Speed at Max Blade Diameter	10,074 FPM
Table Information	
Floor to Table Height	
Table Size with Extension Wings Width	
Table Size with Extension Wings Depth	27 in.
Distance Front of Table to Center of Blade	
Distance Front of Table to Blade At Maximum Cut	11-1/2 in.
Main Table Size Thickness	1-1/2 in.
Fence Information	
Fence Type	Camlock T-Shape w/High-Low Profile Face
Fence Size Length	· · · · · · · · · · · · · · · · · · ·
Fence Size Width	
Fence Size Height	3 in.
Fence Rail Type	
Fence Rail Length	
Fence Rail Width	
Fence Rail Height	
Miter Gauge Information	
Miter Gauge Slot Type	T-Slot
Miter Gauge Slot Size Width	
Miter Gauge Slot Size Height	



Construction

Table	Precision-Ground Cast Iron
Wings	Precision-Ground Cast Iron
Cabinet	Pre-Formed Steel
Trunnions	Cast Iron
Fence Assembly	Steel w/Aluminum Fence
Rails	
Miter Guage Construction	Cast Iron
Guard	
Body/Cabinet Paint Type/Finish	
Arbor Bearings	Sealed & Permanently Lubricated
Other Related Information	
Number of Dust Ports	2
Dust Port Size	4 in. & 1-1/2 in.
Compatible Mobile Base	D2057A
Other Specifications:	
Country of Origin	China
Warranty	1 Year
Approximate Assembly & Setup Time	
Serial Number Location	
Sound Rating	
Courte Flating	07 dD

Features:

Fully-Enclosed, Quick-Release Blade Guard and Spreader

Quick-Release Riving Knife

Zinc Alloy Hinged Motor Cover

4" & 1-1/2" Dust Ports

Heavy Cast Handwheels

T-Slot Miter Gauge

Poly-V Serpentine Drive Belt System for Reduced Noise/Vibration

Precision-Ground Cast-Iron Table

Large Cabinet-Mounted, Cast-Iron Trunnions

Durable Powder-Coated Finish

Deluxe 2-Position Aluminum Rip Fence

Easy-Glide Fence System with Added Micro-Adjustment Controls

Standard & Dado Table Inserts

Built-In Dust Port on Blade Guard

Included 10" x 40T Carbide-Tipped Blade



SECTION 1: SAFETY

For Your Own Safety, Read Instruction **Manual Before Operating This Machine**

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



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

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

▲CAUTION

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

NOTICE

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

Safety Instructions for Machinery

AWARNING

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are NOT approved safety glasses.



AWARNING

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material. Always wear a NIOSH-approved respirator to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly BEFORE operating machine.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine *OFF* and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

EXPERIENCING DIFFICULTIES. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.



Additional Safety for Table Saws

AWARNING

Serious cuts, amputation, or death can occur from contact with rotating saw blade during operation. Workpieces, broken blades, or flying particles thrown by blade can blind or strike operators or bystanders with deadly force. To reduce the risk of these hazards, operator and bystanders MUST completely heed the hazards and warnings below.

HAND & BODY POSITIONING. Keep hands away from saw blade and out of blade path during operation, so they cannot accidentally slip into blade. Only operate at front of machine and always stand to side of blade path. Never reach behind or over blade.

BLADE GUARD. The blade guard protects operator from rotating saw blade. Make sure blade guard is installed, adjusted correctly, and used for all possible "through cuts." Promptly repair or replace if damaged. Re-install immediately after operations that require its removal.

RIVING KNIFE. Use riving knife for all "non-through cuts." Make sure it is aligned and positioned correctly. Promptly repair or replace it if damaged.

KICKBACK. Kickback occurs when saw blade ejects workpiece back toward operator. Know how to reduce risk of kickback, and learn how to protect yourself if it does occur.

FEEDING WORKPIECE. Feeding workpiece incorrectly increases risk of kickback. Always allow blade to reach full speed before cutting, feed workpiece from front of saw, making sure workpiece is flat against table and a fence, miter gauge, or other guide is used to feed workpiece in a straight line. Feed cuts through to completion. Never start saw with workpiece touching blade or pull workpiece from behind blade. Never back workpiece out of cut, move it sideways, or perform a "freehand" operation. Never plunge cut.

PUSH STICKS/PUSH BLOCKS. To reduce risk of accidental blade contact, use push sticks/push blocks whenever possible. In event of an accident, these will often take damage that would have occurred to hands/fingers.

FENCE. To reduce risk of kickback, make sure fence remains properly adjusted and parallel with blade. Always lock fence before using.

CUT-OFF PIECES. To avoid risk of injury due to blade contact, turn saw *OFF* and allow blade to completely stop before removing cut-off pieces near blade or trapped between blade and table insert. Never use your hands to move cut-off pieces away from blade while saw is running.

BLADE ADJUSTMENTS. Adjusting blade height or tilt during operation increases risk of crashing blade and sending metal fragments flying with deadly force at operator or bystanders. Only adjust blade height and tilt when blade is completely stopped and saw is **OFF**.

CHANGING BLADES. Accidental startup while changing saw blade can result in serious injury. To reduce risk of accidental blade contact, always disconnect power before changing blades.

DAMAGED SAW BLADES. Damaged saw blade teeth can become deadly projectiles. Never use blades that have been dropped or damaged.

DADO AND RABBET OPERATIONS. Dado and rabbeting operations require special attention since they must be performed with blade guard removed, which increases risk of blade contact. DO NOT attempt dado or rabbeting operations without first reading these sections in this manual.

CUTTING CORRECT MATERIAL. Cutting metal, glass, stone, tile, etc., increases risk of operator injury due to kickback or flying particles. Only cut natural and man-made wood products, laminate-covered wood products, and some plastics. Never cut materials not intended for this saw.



Preventing Kickback

Below are ways to avoid the most common causes of kickback:

- Only cut workpieces with at least one smooth and straight edge. DO NOT cut warped, cupped or twisted wood.
- Keep the blade guard installed and working correctly for all through cuts.
- Never attempt freehand cuts. If the workpiece is not fed parallel with the blade, kickback will likely occur. Always use the rip fence or miter gauge to support the workpiece.
- Make sure the spreader or riving knife is aligned with the blade. A misaligned spreader or riving knife can cause the workpiece to catch or bind, increasing the chance of kickback.
- Take the time to check and adjust the rip fence parallel with the blade; otherwise, the chances of kickback are extreme.
- The spreader or riving knife maintains the kerf in the workpiece, reducing the chance of kickback. Always use the riving knife for all non-through operations, unless a dado blade is installed. Always use the spreader with the blade guard for all through cuts.
- Feed cuts through to completion. Anytime you stop feeding a workpiece in the middle of a cut, the chance of kickback is greatly increased.
- Keep the blade guard installed and in good working order. Only remove it when performing non-through cuts and immediately re-install the blade guard when finished. Remember, always use the riving knife for all non-through operations, unless a dado blade is installed.
- Make multiple, shallow passes when performing a non-through cut. Making a deep non-through cut will greatly increase the chance of kickback.

 Never move the workpiece backwards or try to back it out of a cut while the blade is moving. If you cannot complete a cut for some reason, stop the saw motor and allow the blade to completely stop before backing the workpiece out. Promptly fix the condition that prevented you from completing the cut before starting the saw again.

Protecting Yourself From Kickback

Even if you know how to prevent kickback, it may still happen. Here are some ways to protect yourself if kickback DOES occur:

- Stand to the side of the blade during every cut.
 If kickback does occur, the thrown workpiece usually travels directly in front of the blade.
- Wear safety glasses or a face shield. In the event of kickback, your eyes and face are the most vulnerable part of your body.
- Never, for any reason, place your hand behind the blade. Should kickback occur, your hand will be pulled into the blade, which could cause amputation.
- Use a push stick to keep your hands farther away from the moving blade. If kickback occurs, the push stick will most likely take the damage your hand would have received.
- Use featherboards or anti-kickback devices to assist with feeding and prevent or slow down kickback.

ACAUTION

Statistics show that most common accidents among table saw users can be linked to kickback. Kickback is typically defined as the high-speed expulsion of stock from the table saw toward its operator. In addition to the danger of the operator or others in the area being struck by the flying stock, it is often the case that the operator's hands are pulled into the blade during kickback.



SECTION 2: POWER SUPPLY

Availability

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



AWARNING

Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

Full-Load Current Rating

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

Full-Load Current Rating at 230V 8 Amps Full-Load Current Rating at 115V..... 16 Amps

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

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

Circuit Information

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



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

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

Circuit Requirements for 230V

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

Nominal Voltage	208V, 220V, 230V, 240V
Cycle	60 Hz
Phase	Single-Phase
	15 Amps
_	NEMA 6-20

Circuit Requirements for 115V

This machine can be converted to operate on a power supply circuit that has a verified ground and meets the requirements listed below. (Refer to **Voltage Conversion** instructions for details.)

Nominal Voltage	110V, 115V, 120V
Cycle	60 Hz
Phase	Single-Phase
Circuit Rating	20 Amps
Plug/Receptacle	-



Grounding Requirements

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

For 230V operation: This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug (see following figure). The plug must only be inserted into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances.

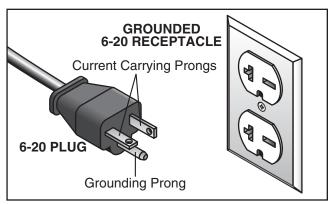


Figure 4. Typical 6-20 plug and receptacle.

For 115V operation: The plug specified under "Circuit Requirements for 115V" on the previous page has a grounding prong that must be attached to the equipment-grounding wire inside the included power cord. The plug must only be inserted into a matching receptacle (see following figure) that is properly installed and grounded in accordance with all local codes and ordinances.

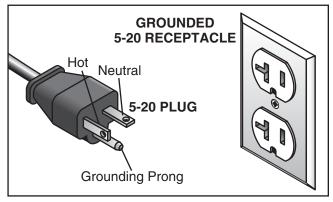


Figure 5. Typical 5-20 plug and receptacle.

AWARNING

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

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Extension Cords

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

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

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

Minimum Gauge Size12 AWG Maximum Length (Shorter is Better)......50 ft.



Converting Voltage to 115V

The voltage conversion MUST be performed by an electrician or qualified service personnel.

The voltage conversion procedure consists of rewiring the motor and installing the correct plug. A wiring diagram is provided on **Page 85** for your reference.

IMPORTANT: If the diagram included on the motor conflicts with the one on **Page 85**, the motor may have changed since the manual was printed. Use the diagram included on the motor instead.

Ite	ms Needed	Qty
•	Phillips Head Screwdriver #2	1
•	Electrical Tape	As Needed
•	Wire Cutters/Stripper	1
	NEMA 5-20 Plug	
	Circuit Breaker 20A (P0833P22	

To convert Model G0833P to 115V:

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Cut off existing 6-20 plug.
- **3.** Open motor junction box, then loosen three wire nuts indicated in **Figure 6.**

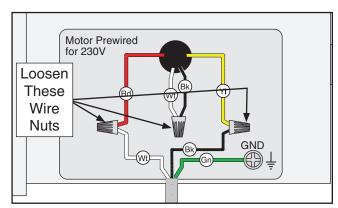


Figure 6. Location of wire nuts to be loosened on motor junction box.

4. Use wire nuts to connect wires as indicated in Figure 7. Twist wire nuts onto their respective wires and wrap them with electrical tape so they will not come loose.

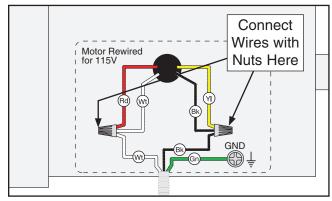


Figure 7. Motor rewired to 115V.

- 5. Close and secure motor junction box.
- **6.** Remove start/stop switch box from the switch mounting plate.
- Replace pre-installed 10-amp circuit breaker (see Figure 8) with a 20-amp circuit breaker (part #P0833P224X), then re-install START/ STOP switch.

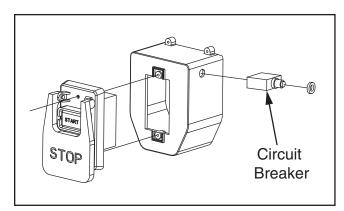
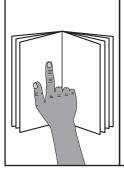


Figure 8. Location of circuit breaker.

- **8.** Install a 5-20 plug on power cord, according to plug manufacturer's instructions.
 - —If plug manufacturer's instructions are not available, NEMA standard 5-20 plug wiring is provided on **Page 85**.

SECTION 3: SETUP



AWARNING

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



AWARNING

Wear safety glasses during the entire setup process!



CAUTION

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

Needed for Setup

The following are needed to complete the setup process, but are not included with the machine:

Des	scription Qty
•	Additional Person 1
•	Safety Glasses for Each Person 1
•	Cleaner/Degreaser (Page 20) As Needed
•	Disposable Shop Rags As Needed
•	Straightedge 4' 1
•	Wrench or Socket 10mm1
•	Wrench or Socket 13mm1
•	Wrench or Socket 14mm1
•	Phillips Head Screwdriver #2 1
•	Dust Collection System 1
•	Dust Hose 4" 1
•	Hose Clamps 4"2

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. *If items are damaged, please call us immediately at (570) 546-9663.*

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.



AWARNING

SUFFOCATION HAZARD! Keep children and pets away from plastic bags or packing materials shipped with this machine. Discard immediately.



Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.

Вох	Contents (Figures 9–11)	Qty
Α.	Main Table Saw Unit	1
B.	Extension Wings	2
C.	Saw Blade 10" x 40T	1
D.	Motor Door	1
E.	Arbor Wrench 13/27mm	
F.	Dado Table Insert	1
G.	Blade Guard Dust Port	1
H.	Blade Guard Assembly	1
I.	Hex Wrench 6-Piece Set 2.5-8mm	
J.	Riving Knife	1
K.	Miter Gauge	1
L.	Dust Hose Adapters	
M.	Push Stick	
N.	Dado Blade Arbor	1
Ο.	Dust Port	1
P.	Handwheels	2
Q.	Handwheel Lock Knobs	2
R.	Handwheel Handles	2
S.	Dust Hose 94" x 11/2"	1
T.	Hose Support	1



Figure 9. Main table saw unit.

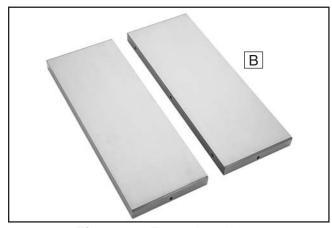


Figure 10. Extension wings.

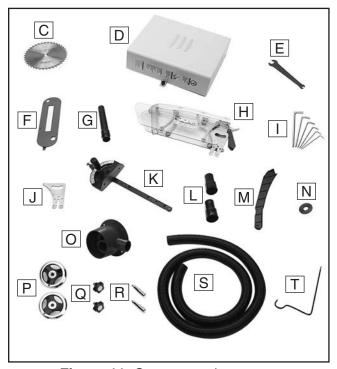


Figure 11. Component inventory.



Box U.	Contents Cont'd (Figure 12) Front Rail Tube 62"	Qty
υ. V.	Front Rail Tape Scale	
W.	Front Rail 57"	
X.	Rear Rail 55"	
Υ.	Fence Assembly	
••	Tence Assembly	'
	teners (Figure 13)	Qty
Z.	Cap Screws M10-1.5 x 30	
	(Wing/Table)	
	Lock Washers 10mm (Wing/Table)	
	Flat Washers 10mm (Wing/Table)	6
AC.	Flat Head Screws M8-1.25 x 35	
	(Front Rail/Table)	
	Lock Washers 8mm (Front Rail/Table)	
	Flat Washers 8mm (Front Rail/Table)	
	Hex Nuts M8-1.25 (Front Rail/Table)	
	Cap Screws M6-1 x 16 (Front Rail/Tube)	
	Lock Washers 6mm (Front Rail/Tube)	
	Flat Washers 6mm (Front Rail/Tube)	5
AJ.	Cap Screws M10-1.5 x 25	_
	(Rear Rail/Table)	
	Lock Washers 10mm (Rear Rail/Table) .	
	Flat Washers 10mm (Rear Rail/Table)	2
AM.	.Cap Screws M8-1.25 x 35	_
	(Rear Rail/Wing)	
	Flat Washers 8mm (Rear Rail/Wing)	
	Lock Washers 8mm (Rear Rail/Wing)	
	Hex Nuts M8-1.25 (Rear Rail/Wing)	
	Cap Screws M58 x 14 (Switch)	
	Lock Washers 5mm (Switch)	
	Flat Washers 5mm (Switch)	
	Wing Nut M6-1 (Dust Hose Support)	
	Flat Washer 6mm (Dust Hose Support).	
	Hex Nut M6-1 (Dust Hose Support) Button Head Cap Screws M6-1 x 12	1
AVV.	(Dust Port)	1
ΛY	Flat Washers 6mm (Dust Port)	
AV.	i iai vvasiicis viiiiii (Dusi Fuii)	4

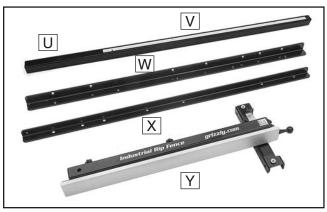


Figure 12. Inventory needed to install fence on Model G0833P.

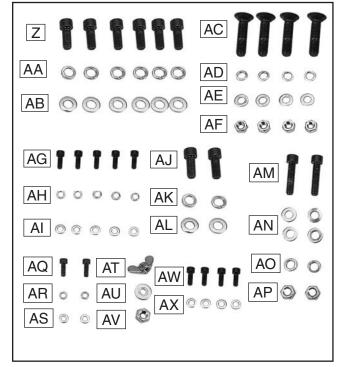
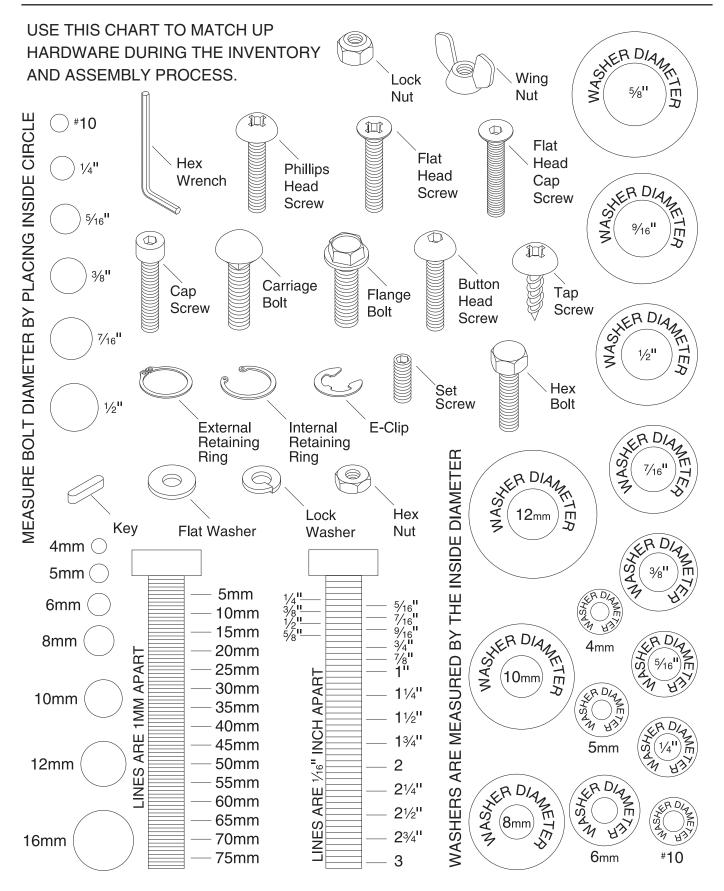


Figure 13. Hardware inventory.



Hardware Recognition Chart



Cleanup

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

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

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

Before cleaning, gather the following:

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

Basic steps for removing rust preventative:

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



AWARNING

Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. Avoid using these products to clean machinery.



ACAUTION

Many cleaning solvents are toxic if inhaled. Only work in a well-ventilated area.

NOTICE

Avoid chlorine-based solvents, such as acetone or brake parts cleaner, that may damage painted surfaces.

T23692—Orange Power Degreaser

A great product for removing the waxy shipping grease from the **non-painted** parts of the machine during clean up.



Figure 14. T23692 Orange Power Degreaser.



Site Considerations

Weight Load

Refer to the **Machine Data Sheet** for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

Space Allocation

Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. See below for required space allocation.



ACAUTION

Children or untrained people may be seriously injured by this machine. Only install in an access restricted location.

Physical Environment

The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20%–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave enough space around machine to disconnect power supply or apply a lockout/tagout device, if required.

Lighting

Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.

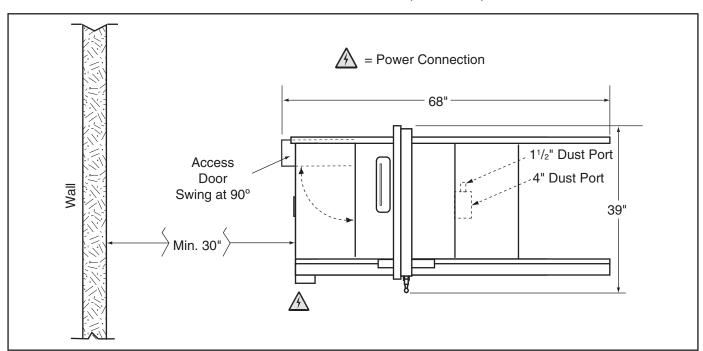


Figure 15. Minimum working clearances.



Assembly

The machine must be fully assembled before it can be operated. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items. To ensure the assembly process goes smoothly, first clean any parts that are covered or coated in heavy-duty rust preventative (if applicable).

To assemble table saw:

 Using blade height handwheel (refer to Page 3), raise motor and remove foam shipping block (see Figure 16). Save block for later machine transport.

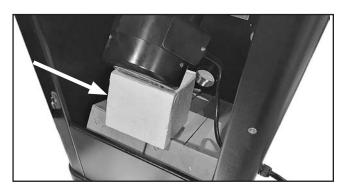


Figure 16. Foam shipping block location.

2. Remove switch from saw cabinet, and install motor door by inserting door pins into hinge sockets on cabinet (see **Figure 17**).

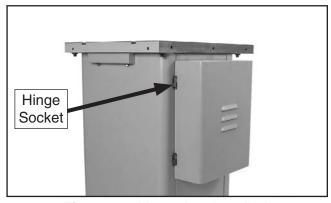


Figure 17. Motor door installed.

 Before closing door, thoroughly clean heavyduty rust preventative off of gearing inside the saw and coat these with appropriate metal protectant (refer to Lubrication on Page 67 for location of gears). 4. Slide groove on back of each handwheel over handwheel shaft pin, as shown in **Figure 18**.

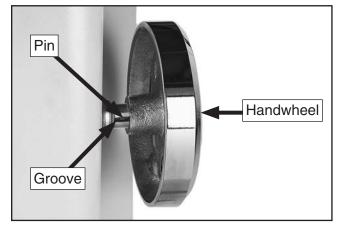


Figure 18. Handwheel installed onto shaft pin.

5. Thread a handwheel lock knob into center of each handwheel and tighten, then thread a handle onto each handwheel and tighten (see Figure 19).

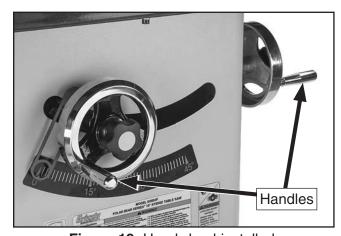


Figure 19. Handwheel installed.

 Inspect extension wings and main table mating surfaces for burrs or foreign materials that may inhibit assembly.

For a correct fit, mating edges of table and wings must be clean, smooth, and flat. If necessary, use a wire brush or file to remove any flashing, dings, or high spots.



7. While a helper holds wings in place, attach each extension wing to main table with (3) M10-1.5 x 30 cap screws, 10mm lock washers, and 10mm flat washers removed in Step 5 (see Figure 20).

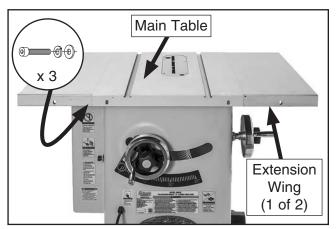


Figure 20. Extension wings installed.

- **8.** Place straightedge across extension wings and main table to make sure that combined table surface is flat.
 - —If combined table surface is flat, skip to next step.
 - —If outside end of extension wing tilts down, place a strip of masking tape along bottom edge of main table to shim end of extension wing up (see Figure 21).

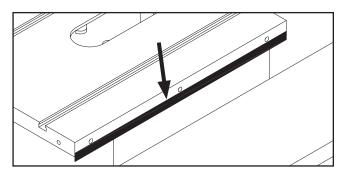


Figure 21. Masking tape location for tilting extension wing up.

—If outside end of extension wing tilts up, place strip of masking tape along top edge of main table to shim end of extension wing down (see Figure 22).

Note: After re-installing wings, remove all excess masking tape with a razor blade.

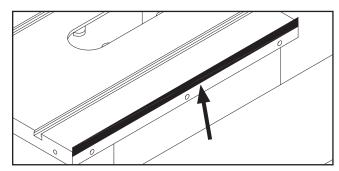


Figure 22. Masking tape location for adjusting the extension wing down.

9. Attach front rail to table and extension wings with (4) M8-1.25 x 35 flat head screws, 8mm flat washers, 8mm lock washers, and M8-1.25 hex nuts, as shown in Figure 23. Make sure top of rail is parallel with table top before fully tightening fasteners.

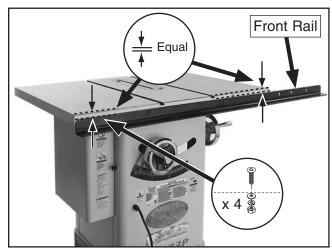


Figure 23. Front rail installed.

10. Install front rail tube onto front rail with (5) M6-1 x 16 cap screws, 6mm flat washers, and 6mm lock washers, as shown in **Figure 24**. Finger-tighten fasteners.

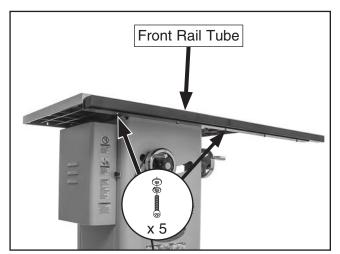


Figure 24. Front rail tube attached to front rail.

- 11. While standing at front of table, pull rail tube toward you as far as possible, then final tighten fasteners installed in Step 10. This will help make sure there is enough room for fence to slide.
- 12. Attach rear rail to holes on main table using (2) M10-1.5 x 25 cap screws, 10mm lock washers, and 10mm flat washers, as shown in **Figure 25**. Check to make sure rear rail is parallel to table and below miter slots before completely tightening cap screws.
- **13.** Secure rear rail to extension wings with (2) M8-1.25 x 35 cap screws, (4) 8mm flat washers, (2) 8mm lock washers, and (2) M8-1.25 hex nuts (see **Figure 25**).

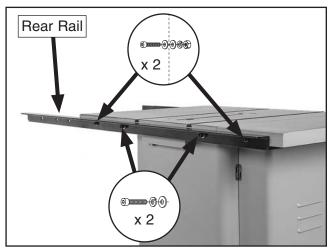


Figure 25. Rear rail installed.

- 14. Install saw blade as outlined in Blade Installation on Page 35.
- **15.** Place fence on rails (on right hand side of blade, as shown in **Figure 26**).

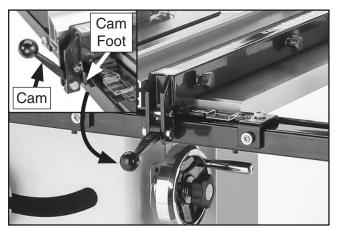


Figure 26. Fence installed on rails.

Note: Make sure cam foot contacts cam on fence lock handle before you place fence on rail; otherwise, fence will not lock onto rail tube.

16. Adjust foot at rear of fence so that gap between fence and table top is even from front to back.



17. Slide fence up against right hand edge of miter slot, and lock it in place. Examine how fence lines up with miter slot.

Note: It is permissible for back of fence to pivot outward not more than 1/64" from being parallel with miter slot. This creates a slightly larger opening between fence and blade, at rear of blade, to reduce risk of workpiece binding or burning as it is fed through cut. Many woodworkers intentionally set up their fence in this manner. Keep this in mind before adjusting your fence. For more details, see Figure 119 on Page 76.

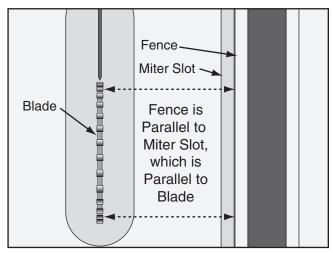


Figure 27. Checking fence parallelism with blade.

- —If fence *is* still parallel with miter slot, proceed to **Step 18**.
- —If fence is not parallel with miter slot, then you MUST adjust fence, as described in Fence Adjustments on Page 74, so that it is parallel.
- —If miter slot is not parallel with blade, you must follow procedures described in Miter Slot to Blade Parallelism on Page 65.

- **18.** Carefully slide fence so it barely touches saw blade and lock it in place.
- 19. Lightly mark "0" location on fence tube (under indicator line on pointer window) with a pencil, then remove fence.
- 20. Peel tape, carefully align "0" mark on scale with pencil mark you made on fence tube, and make sure tape is parallel to fence tube along its length.
- **21.** Re-install fence, move it over to just touch blade, and verify that indicator line is directly over "0" mark.
 - —If you need to correct position of indicator line, loosen button head screws on pointer window, adjust pointer window so line is over "0" mark on tape (see Figure 28), then secure screws.

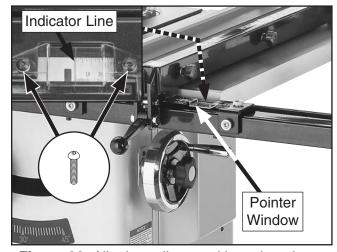


Figure 28. Aligning rail tape with scale pointer.

22. Install blade guard as outlined on Page 37.

23. Attach switch to bottom left-hand side of front rail using (2) M5-.8 x 14 cap screws, 5mm lock washers, and 5mm flat washers, as shown in Figure 29.

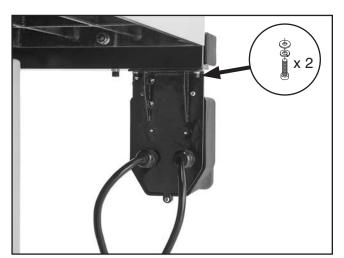


Figure 29. Switch installed.

24. Attach dust hose support to rear rail with (1) M6-1 hex nut, 6mm flat washer, and M6-1 wing nut, as shown in **Figure 30**, so open end of hook faces outward.

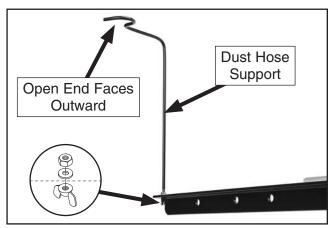


Figure 30. Dust hose support installed.

25. Attach dust port to cabinet using (4) M6-1 x 12 button head cap screws and (4) 6mm flat washers, as shown in **Figure 31**.

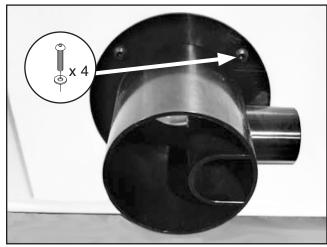


Figure 31. Dust port installed.

Dust Collection

ACAUTION

This machine creates a lot of wood chips/ dust during operation. Breathing airborne dust on a regular basis can result in permanent respiratory illness. Reduce your risk by wearing a respirator and capturing the dust with a dust collection system.

Minimum CFM at Dust Port: 500 CFM +

Do not confuse this CFM recommendation with the rating of the dust collector. To determine the CFM at the dust port, you must consider these variables: (1) CFM rating of the dust collector, (2) hose type and length between the dust collector and the machine, (3) number of branches or wyes, and (4) amount of other open lines throughout the system. Explaining how to calculate these variables is beyond the scope of this manual. Consult an expert or purchase a good dust collection "how-to" book.

Components Needed:	Qty
Dust Hose Adapters 1½"	2
Dust Hose 94" x 1½"	1
Dust Hose 4" (not included)	1
Hose Clamps 4" (not included)	2
Dust Collection System (not included)	1

To connect dust collection hoses:

 Attach a dust hose adapter to each end of dust hose (see Figure 32).

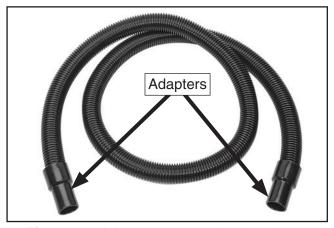


Figure 32. Adapters attached to dust hose.

- 2. Slide one adapter onto 1½" dust port (see Figure 33), until it fits snugly.
- Attach dust hose to dust hose support, then insert dust port into rear of blade guard assembly (see Figure 33).

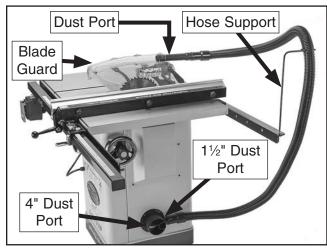


Figure 33. Dust hose attached to saw, hose support, and blade guard dust port.

4. Fit 4" dust hose over dust port, as shown in Figure 34, and tightly secure it in place with a hose clamp.

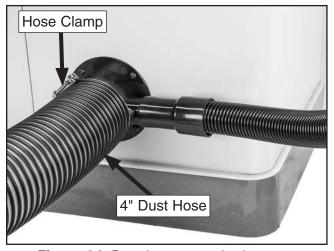


Figure 34. Dust hoses attached to port.

Tug hose to make sure it does not come off.
 Note: A tight fit is necessary for proper performance.



Test Run

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The test run consists of verifying the following:

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

AWARNING

Serious injury or death can result from using this machine BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, machine until the information is understood.

WARNING

DO NOT start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

To test run machine:

- Lower blade all the way down, and make sure all tools and objects used during setup are cleared away from machine.
- **2.** Connect machine to power source.
- **3.** Turn machine **ON**, verify motor operation, then turn machine **OFF**.

The motor should run smoothly and without unusual problems or noises.

4. Insert switch disabling pin through green ON/ START button, as shown in **Figure 35**.

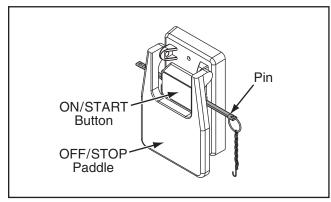


Figure 35. Example of switch disabling pin inserted into START button.

- **5.** Press green ON/START button to test disabling feature on switch.
 - —If machine *does not* start, switch disabling feature is working as designed.
 - —If machine does start, immediately stop machine. The switch disabling feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.

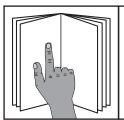


SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is **not** intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

AWARNING

Eye injuries, respiratory problems, or hearing loss can occur while operating this tool. Wear personal protective equipment to reduce your risk from these hazards.







NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

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

- Examines workpiece to make sure it is suitable for cutting.
- Adjusts blade tilt, if necessary, to correct angle for desired cut.
- **3.** Adjusts blade height no more than ½" higher than thickness of workpiece.
- **4.** Adjusts fence to desired width of cut, then locks it in place.
- Checks outfeed side of machine for proper support and to make sure workpiece can safely pass all the way through blade without interference.
- Puts on safety glasses, respirator, and hearing protection, and locates push sticks/blocks if needed.
- 7. Starts saw.
- 8. Feeds workpiece all the way through blade while maintaining firm pressure on workpiece against table and fence, and keeping hands and fingers out of blade path and away from blade.
- Stops machine immediately after cut is complete.



Workpiece Inspection

Some workpieces are not safe to cut on this machine or may need to be modified before they can be safely cut. **Before cutting, inspect all workpieces for the following:**

- Material Type: This machine is intended for cutting natural and man-made wood products, laminate-covered wood products, and some plastics. Cutting drywall or cementitious backer board creates extremely fine dust and may reduce the life of the motor bearings. This machine is NOT designed to cut metal, glass, stone, tile, etc.; cutting these materials with a table saw greatly increases the risk of injury and damage to the saw or blade.
- Foreign Objects: Nails, staples, dirt, rocks and other foreign objects are often embedded in wood. While cutting, these objects can become dislodged and hit the operator, cause kickback, or break the blade, which might then fly apart. Always visually inspect your workpiece for these items. If they can't be removed, DO NOT cut the workpiece.
- Large/Loose Knots: Loose knots can become dislodged during the cutting operation. Large knots can cause kickback and machine damage. Choose workpieces that do not have large/loose knots or plan ahead to avoid cutting through them.
- Wet or "Green" Stock: Cutting wood with a moisture content over 20% causes unnecessary wear on the blades, increases the risk of kickback, and yields poor results.
- Excessive Warping: Workpieces with excessive cupping, bowing, or twisting are dangerous to cut because they are unstable and may move unpredictably when being cut.
- Minor Warping: Slightly cupped workpieces
 can be safely supported with cupped side
 facing the table or fence; however, workpieces supported on the bowed side will rock
 during the cut, which could cause kickback.

Non-Through & Through Cuts

Non-Through Cuts

A non-through cut is a sawing operation where the blade does not protrude above the top face of the wood stock, as shown in the **Figure** below.

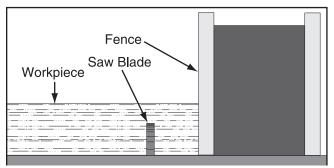


Figure 36. Example of a non-through cut.

Examples of non-through cuts include dadoes and rabbets. Non-through cuts have a higher risk of injury from kickback because the blade guard must be removed. However, the riving knife MUST be installed because it still provides some protection.

IMPORTANT: When making non-through cuts with a dado blade, do not attempt to cut the full depth in one pass. Instead, take multiple light passes to reduce the load on the blade.

A dado blade smaller than 10" will require removal of the riving knife, because the riving knife will be higher than the blade.



Through Cuts

A through cut is a sawing operation in which the workpiece is completely sawn through, as shown in the **Figure** below. Examples of through cuts are rip cuts, cross cuts, miter cuts, and beveled cuts. The blade guard assembly MUST be used when performing through cuts.

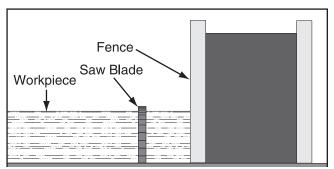


Figure 37. Example of a through cut (blade guard not shown for illustrative clarity).

Blade Requirements

When choosing a main blade, make sure the blade size meets the requirements listed below. The thickness of the blade body and teeth can be measured with calipers or any precision measuring device.

Blade Size Requirements:

- Body Thickness: 0.063"–0.094" (1.8-2.4mm)
- Kerf (Tooth) Thickness: 0.102"-0.126" (2.6-3.2mm)
- Riving Knife Thickness: 0.1" (2.5mm)
- Blade Size Required for Riving Knife: 10"

Blade Selection

This section on blade selection is by no means comprehensive. Always follow the saw blade manufacturer's recommendations to ensure safe and efficient operation of your table saw.

Ripping Blade Features:

- Best for cutting with the grain
- 20-40 teeth
- Flat-top ground tooth profile
- Large gullets for large chip removal

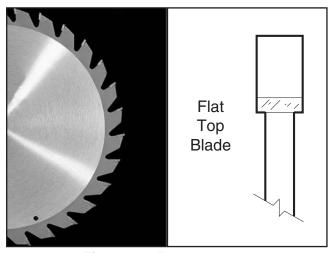


Figure 38. Ripping blade.

Crosscut blade features:

- Best for cutting across the grain
- 60-80 teeth
- Alternate top bevel tooth profile
- Small hook angle and a shallow gullet

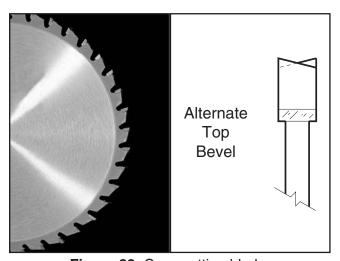


Figure 39. Crosscutting blade.



Combination blade features:

- Designed to cut both with and across grain
- 40-50 teeth
- Alternate top bevel and flat, or alternate top bevel and raker tooth profile
- Teeth are arranged in groups
- Gullets are small and shallow (similar to a cross-cut blade), then large and deep (similar to a ripping blade

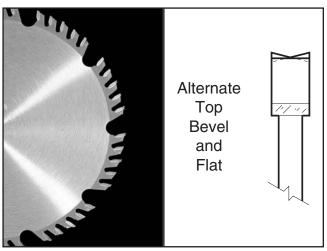


Figure 40. Combination blade.

Laminate blade features:

- Best for cutting plywood or veneer
- 40-80 teeth
- Triple chip tooth profile
- Very shallow gullet

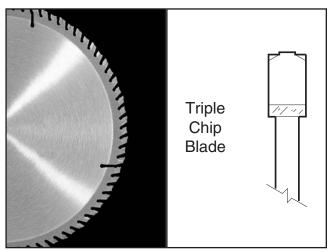


Figure 41. Laminate blade.

Thin Kerf Blade: A blade with thinner kerf than a standard blade. Since the spreader/riving knife included with this table saw is sized for standard blades, thin kerf blades cannot be used on this saw unless they meet the Blade Requirements specified in this manual; otherwise, they will increase the risk of kickback.

Dado Blades

Stacked Dado Blade (see below): Multiple blades are stacked together to control the cutting width. Stacked dado blades are more expensive than wobble blades, but typically produce higher quality results.

Wobble Dado Blade: A single blade mounted at a slight angle on an arbor hub. The blade angle is adjustable on the hub, and the width of the dado cut is controlled by the angle setting of the blade.

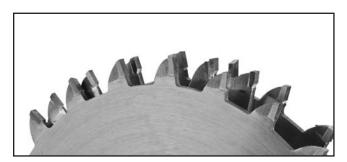


Figure 42. Stacked dado blade.

Blade Installation

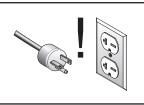
Review this section, even if your saw blade came pre-installed.

To install blade:

- 1. DISCONNECT MACHINE FROM POWER!
- Raise arbor all the way up, then remove blade guard and spreader/riving knife (see Pages 37 & 40) and table insert.

ACAUTION

To reduce risk of injury, always disconnect power to saw before changing blades. Since blade is sharp, use extra care and wear gloves when installing it.





3. Push arbor lock (see **Figure 43**) in and turn blade until it locks in place.

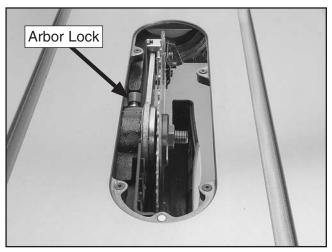


Figure 43. Location of arbor lock.

4. While pressing arbor lock, use included arbor wrench to loosen and remove arbor nut, flange, and blade (see Figure 44). Arbor nut has right-hand threads; rotate counterclockwise to loosen.



Figure 44. Example of removing table saw blade.

Continued on next page —

5. Install new blade, flange, and arbor nut on arbor, as shown in Figure 45, with upper teeth facing front of saw. Ensure the tapered edge of the flange faces the arbor nut and the recess faces away from the arbor nut. The arbor nut should be flush with the outer surface of the flange.

IMPORTANT: Make sure you install the components in the correct orientation or the saw blade will not be properly secured!

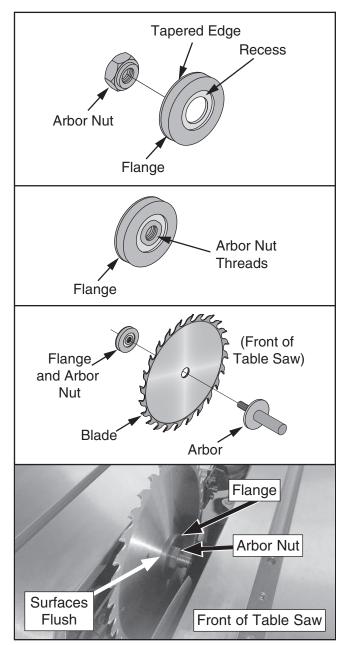


Figure 45. Blade order of installation and teeth facing correct direction.

- **6.** Secure blade with arbor lock, then tighten flange and arbor nut against blade with arbor wrench. DO NOT overtighten.
- Re-install table insert (see Page 78) and blade guard (see 37) or riving knife (see Page 40).

Blade Guard Assembly

The term "blade guard" refers to the assembly that consists of the clear polycarbonate shield and dust enclosure, the spreader, and the anti-kickback pawls on each side of the spreader (see **Figure 46**). Each of these components have important safety functions during the operation of the saw.

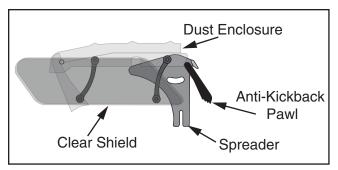


Figure 46. Blade guard assembly components.

Guard

The clear polycarbonate guard allows the operator to see the blade cut the workpiece during operation. This guard is designed to lift as the workpiece is pushed into the blade and remain in contact with the workpiece throughout the entire cut.

The guard reduces injury risk by providing a barrier around the blade that prevents accidental contact and contains flying wood chips.

To ensure that the guard does its job effectively, the guard must always be in the downward position against the table during idle operation, and the hinge mechanism must be maintained in good working condition so the guard can freely pivot up and down to accommodate the height of the workpiece and return to the table surface.



Spreader

The spreader is a metal plate that prevents the newly cut kerf of the workpiece from pinching the backside of the blade, causing kickback.

The spreader also acts as a barrier behind the blade to shield hands from being pulled into the blade if a kickback occurs.

ACAUTION

In order to work properly, the spreader cannot be bent or misaligned with the blade. If the spreader gets accidentally bent, take the time to straighten it or just replace it. Using a bent or misaligned spreader will increase the risk of kickback! Refer to Page 67 to check or adjust alignment if necessary.

Installing Blade Guard & Spreader

Tools Needed	Qty
Hex Wrench 3mm	1
Straightedge	1

To install blade guard and spreader:

- DISCONNECT MACHINE FROM POWER!
- 2. Install table insert, then raise blade all the way up.
- **3.** Slide knurled knob out (see **Figure 47**) and rotate it so it engages upper bracket.

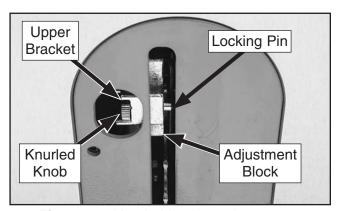


Figure 47. Knurled knob used to secure spreader.

- **4.** Slide blade guard spreader all the way down into adjustment block, then rotate knurled knob so it disengages bracket and locking pin engages hole in center of spreader.
- Give spreader an upward tug to verify that it is locked.

The blade guard, when properly installed, should be set up similarly to **Figure 48**. It should pivot freely up and down and return to the table in the resting position. It should also swing up high enough to accommodate the workpiece.

6. Adjust flat head cap screws (see Figure 48) to make sure table insert is flush with table (use a straightedge as a guide).

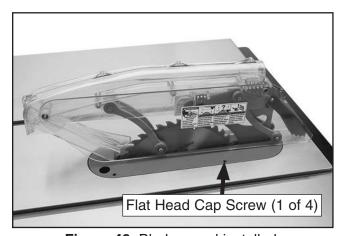


Figure 48. Blade guard installed.

Continued on next page —

7. While lifting up on one side of blade guard and right spreader pawl, place straightedge against blade and spreader, making sure straightedge does not touch a blade tooth.

When properly aligned, spreader/riving knife will be in "Alignment Zone," shown in **Figure 49**, and will be parallel with blade.

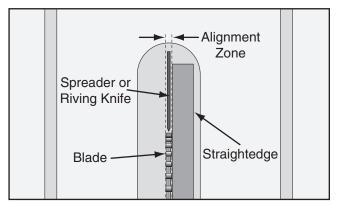


Figure 49. Spreader/riving knife alignment zone.

- —If spreader/riving knife is not inside alignment zone and not parallel with blade, then it needs to be adjusted. Proceed to "Adjusting Alignment" on Page 73.
- Install blade guard dust port and dust collection hose, as shown in Figure 50, and attach hose to dust collection port on table saw body (refer to Page 28).

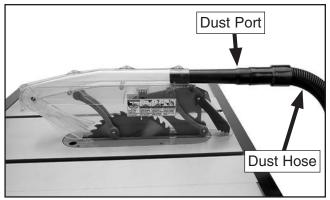


Figure 50. Dust port and dust collection hose installed on blade guard.

Anti-Kickback Pawls

The anti-kickback pawls allow the workpiece to travel in only one direction. If the workpiece moves backwards, such as during a kickback, the pawls will dig into the workpiece to slow or stop it.

To work properly, the pawls must return to their resting position after pivoting, as shown in **Figure 51**, and they must NOT be engaged in the arresting hooks.

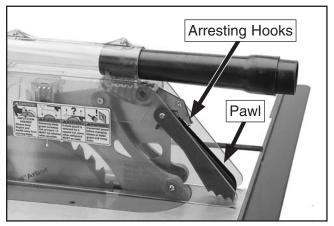


Figure 51. Pawls in resting position.

If the pawls fail to return to the resting position, the pivot area may need to be cleaned or the spring may have been dislodged or broken and will need to be fixed/replaced.

Disabling Pawls

You might disable the pawls if you are concerned about them scratching a delicate workpiece, or if you believe that they will obstruct a narrow workpiece and cause feeding difficulty or loss of control. Use your best judgment before retracting the pawls, as they are provided for your safety.

ACAUTION

We do not recommend disabling pawls during normal operations unless absolutely necessary. In most situations, disabling pawls will increase your risk of serious personal injury in event of a kickback.

ACAUTION

The pawls are sharp and can lacerate fingers or hands. Use caution, and wear leather gloves when handling the pawls to reduce risk of injury.

To disable pawls:

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Rotate one or both arresting hooks downward, then place pawls on each of the hooks, as shown in **Figure 52**.

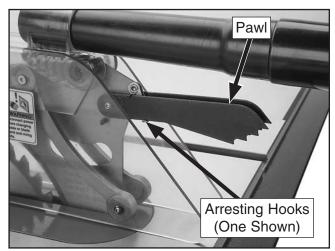


Figure 52. Pawls disabled.

Enabling Pawls

To enable the pawls, lift up on each pawl and move them outward and down until they both touch the table surface, as shown in **Figure 51** on **Page 39**.

When to Use the Blade Guard

The blade guard assembly MUST always be installed on the saw for all normal through cuts (those where the blade cuts all the way through the thickness of the workpiece). If the blade guard is removed for specific operations, always immediately replace it after those operations are complete.

When Not to Use the Blade Guard

The blade guard cannot be used on any nonthrough cuts (those in which the blade does not cut all the way through the thickness of the workpiece).

IMPORTANT: Whenever the blade guard cannot be used, the riving knife must be installed.

Sometimes the blade guard or its components can get in the way when cutting very narrow workpieces or other specialized cuts. Because the blade guard is provided to decrease your risk of injury, it should not be used if it gets in the way of making a safe cut. Use good judgment!



Riving Knife

The riving knife works in the same manner as the spreader on the blade guard assembly. It is a metal plate that prevents the newly cut workpiece from pinching the backside of the blade and causing kickback.

The key difference between the spreader and the riving knife is that the riving knife mounts below the blade's highest point of rotation, as shown in **Figure 53**.

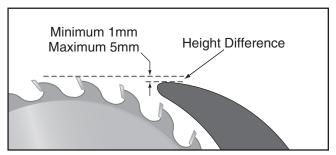


Figure 53. Height difference between riving knife and blade.

The height difference between the riving knife and the blade allows the workpiece to pass over the blade during non-through cuts (those in which the blade does not cut all the way through the thickness of the workpiece).

The riving knife acts as a barrier behind the blade to reduce the risk of hands being pulled into the blade if a kickback occurs.

The riving knife must be kept within the range shown in **Figure 54**. For that reason, we only recommend using a 10" blade for operations that require use of the riving knife.

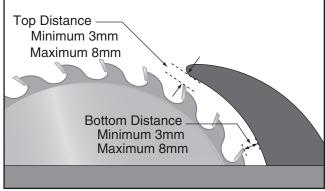


Figure 54. Allowable top and bottom distances between riving knife and blade.



To ensure that riving knife works safely, it MUST be aligned with and correctly adjusted to blade. Refer to Page 67 to check or adjust riving knife alignment.

How to Install the Riving Knife

The riving knife is installed in a similar manner to the blade guard and spreader. Refer to **Blade Guard Assembly** on **Page 37** for installation instructions.

When to Use the Riving Knife

Use the riving knife for all non-through cuts made with a standard table saw blade (i.e., dadoes or rabbet cuts, and when using a tenoning jig), or when using a 10" diameter dado blade.

Also, use the riving knife for those special operations where the blade guard or its components get in the way of safe operation, such as with very narrow cuts.

When Not to Use the Riving Knife

DO NOT use the riving knife with a dado blade that has a diameter smaller than 10" in diameter. Otherwise, the riving knife height will exceed the blade height and the workpiece will hit the riving knife during the cut, forcing the operator into a dangerous situation of trying to turn the saw off with the workpiece stuck halfway through the cut.

In addition, although it is possible to use the riving knife for through cutting operations, the blade guard assembly offers far more injury protection and risk reduction than the riving knife. Therefore, we strongly recommend that you use the blade guard assembly instead of the riving knife for through cuts.



Ripping

"Ripping" means cutting with the grain of a natural wood workpiece. In man-made materials such as MDF or plywood, ripping means cutting lengthwise.

ACAUTION

Serious injury can be caused by kickback. Kickback is a high-speed ejection of stock from table saw toward an operator. The operator or bystanders may be struck by flying stock, or operator's hands can be pulled into blade during kickback.

To make a rip cut:

- Review Preventing Kickback on Page 12 and take necessary precautions to reduce likelihood of kickback.
- **2.** If using natural wood, joint one long edge of workpiece on a jointer.
- DISCONNECT MACHINE FROM POWER!
- **4.** Ensure that blade guard/spreader is installed.
- 5. Loosen fence knobs (see Figure 55), remove rip fence, then re-install in vertical position for thicker workpieces, or in horizontal position for thinner workpieces and angled cuts where blade is tilted over fence. Lift fence up and tighten each fence knob.

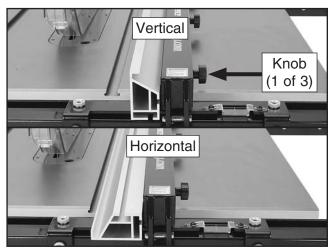


Figure 55. Rip fence positions.

- 6. Set fence to desired width of cut on scale.
- 7. Adjust blade height so highest saw tooth protrudes no more than 1/4" above workpiece.
- **8.** Set up safety devices such as featherboards or other anti-kickback devices, making sure no safety devices are contacting blade.
- **9.** Plug saw into power source, turn it *ON*, and allow it to reach full speed.

Note: Jointed edge of workpiece must slide against fence during cutting operation.

10. Use push stick to feed workpiece through saw blade, as shown in Figure 56, until workpiece is completely beyond saw blade.

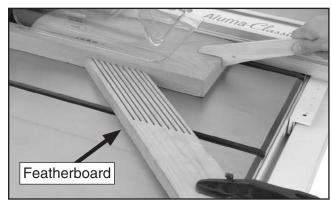
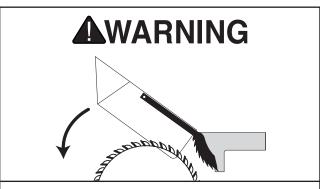


Figure 56. Typical ripping operation.

AWARNING

Turn saw *OFF* and allow blade to come to a complete stop before removing cutoff piece. Failure to follow this warning could result in severe lacerations or amputation.



Keep blade guard installed and in down position. Failure to do this could result in serious personal injury or death.



Crosscutting

"Crosscutting" means cutting across the grain of a natural wood workpiece, usually with a miter saw. In other man-made materials, such as MDF or plywood, crosscutting means cutting across the width of the workpiece.

To make a crosscut using miter gauge:

- DISCONNECT MACHINE FROM POWER!
- **2.** Ensure that blade guard/spreader is installed.
- To avoid kickback, move rip fence aside and position miter gauge, adjusted to 90°, in a miter slot.
- **4.** Adjust blade height so teeth protrude no more than ½" above workpiece.
- Slide miter gauge near blade and adjust workpiece so blade will cut on waste side of line.
- **6.** Plug in table saw, turn it **ON**, and allow it to reach full speed.
- 7. Hold workpiece firmly against face of miter gauge (as shown in Figure 57), and ease it through blade until workpiece is completely past saw blade.

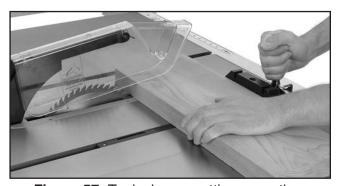


Figure 57. Typical crosscutting operation.

AWARNING

Turn saw *OFF* and allow blade to come to a complete stop before removing cutoff piece. Failure to follow this warning could result in severe lacerations or amputation.

Miter Cuts

A miter is an angled crosscut. Miters are usually cut in the same manner as crosscuts, using the miter gauge and a predetermined mark on the workpiece.

To perform a miter cut:

- DISCONNECT MACHINE FROM POWER!
- **2.** Ensure that blade guard/spreader is installed.
- Determine angle of cut. If angle needs to be very precise, use a protractor to set miter gauge to blade.
- 4. Place face of miter gauge against edge of workpiece and place bar across face of workpiece. Use bar as a guide to mark your cut, as shown in Figure 58.



Figure 58. Example of marking miter line.

- 5. Place miter gauge back into slot and hold workpiece firmly against miter gauge body. Slide miter gauge near blade and adjust workpiece so blade will cut on waste side of line.
- **6.** Proceed to make cut in same manner as described in **Crosscutting** instructions.



Blade Tilt/Bevel Cuts

When the blade tilt collar bolts are properly adjusted (as described starting on **Page 68**), the blade tilt handwheel allows the operator to tilt the blade to the left, between 0° and 45°. This is used most often when cutting bevels, compound miters, or chamfers. **Figure 59** shows an example of the blade when tilted to 45°.

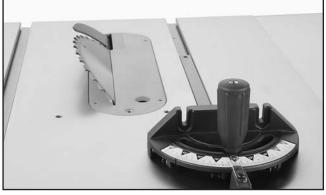


Figure 59. Example of blade tilted to 45° for bevel cutting (blade guard only removed for clarity.

Dado Cutting

Commonly used in furniture joinery, a dado is a straight channel cut in the face of the workpiece. Dadoes are "non-through" cuts that can be made with a dado blade or a standard saw blade. The **Figure** below shows a cutaway view of a dado cut being made with a dado blade.

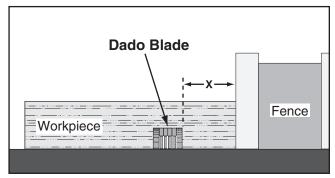


Figure 60. Example of a dado being cut with a dado blade.

The Model G0833P can accommodate dado blades up to 10" in diameter. However, you MUST install the included riving knife while using a 10" diameter dado blade, as it provides a barrier behind the blade and reduces the risk of hands being pulled into the blade if kickback occurs.

DO NOT use the riving knife if you install a dado blade smaller than 10" in diameter. Otherwise, the riving knife height will exceed the blade height and the workpiece will hit the riving knife during the cut, forcing the operator into a dangerous situation and trying to turn the saw off with the workpiece stuck halfway through the cut.

Installing a Dado Blade

- 1. DISCONNECT MACHINE FROM POWER!
- Remove table insert, blade guard assembly or riving knife, arbor nut, flange, and saw blade.
- Attach and adjust dado blade system according to dado blade manufacturer's instructions, and secure with included dado blade flange and arbor nut.
- 4. Install dado table insert.

AWARNING

DO NOT make through cuts with a dado blade. The extra width of a dado blade will increase the risk of kickback during a through cut. Dado blades are only intended for non-through cuts. Failure to heed this warning could result in serious injury.

AWARNING

Never try to cut a warped board by holding it down against the table. If kickback occurs, your hand could be pulled into the blade, resulting in accidental contact with the rotating blade, causing severe lacerations or amputation.

Cutting Dadoes with a Dado Blade

Because dado blades are much wider than standard blades, they place a greater amount of force against the workpiece when cutting. This additional force increases the risk of kickback, requiring the operator to take additional steps when cutting to keep their injury risk at an acceptable level.

AWARNING

Dado blades have a higher risk of kickback than normal blades because their larger size applies stronger forces to the workpiece. This risk increases relative to the depth and width of the cut. To minimize your risk of serious personal injury, ensure that stock is flat and straight, and make multiple light cuts (rather than one deep cut) to achieve the desired cutting depth.

The **Figure** below demonstrates the sequential process of making multiple, light cuts that get progressively deeper. The actual number of cuts used should be determined by workpiece hardness, total dado depth, and feed rate. In general, if you hear the motor slow down during the cut, you are cutting too deep or feeding too fast.

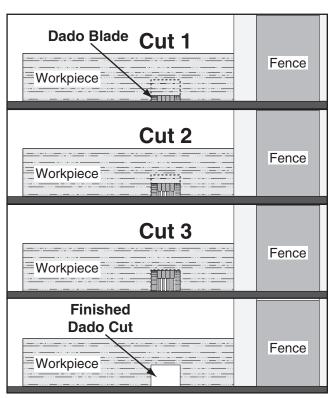


Figure 61. Example of dado being cut with multiple light cuts, instead of one deep cut.

To cut a dado with a dado blade:

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Adjust dado blade to desired depth of cut.
- **3.** Adjust distance between fence and inside edge of blade, as shown in **Figure 60** on **Page 45**, to dado length of a workpiece.
 - If dadoing across workpiece, use miter gauge and carefully line up desired cut with dado blade. To reduce kickback, DO NOT use fence in combination with miter gauge.
- **4.** Reconnect saw to power source.
- **5.** Turn saw **ON**. Blade should run smoothly, with no vibrations.
- **6.** When blade has reached full speed, perform test cut with scrap piece of wood.
- If cut is satisfactory, repeat cut with actual workpiece.

Cutting Dadoes with a Standard Blade

A ripping blade (described on **Page 39**) is typically the best blade to use when cutting dadoes with a standard blade because it removes sawdust very efficiently.

To use a standard saw blade to cut dadoes:

- DISCONNECT MACHINE FROM POWER!
- 2. Mark width of dado cut on workpiece. Include marks on edge of workpiece so cut path can be aligned when workpiece is lying on table.
- **3.** Raise blade up to desired depth of cut (depth of dado channel desired).
- Set saw up for type of cut you need to make, depending on whether it is a rip cut (Page 39) or crosscut (Page 42).



5. Align blade to cut one side of dado, as shown in **Figure 62**.

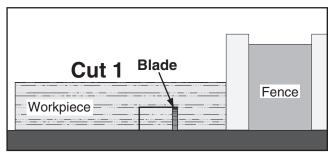


Figure 62. First cut for a single-blade dado.

- 6. Reconnect saw to power source and turn saw ON. Allow blade to reach full speed, then perform cutting operation.
- Repeat cutting operation on other side of dado, as shown in Figure 63.

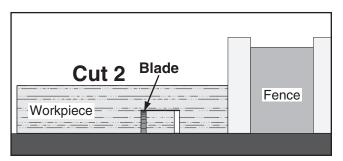


Figure 63. Second cut for a single-blade dado.

Make additional cuts (see Figure 64) in center of dado to clear out necessary material.
 Dado is complete when channel is completely cleared out.

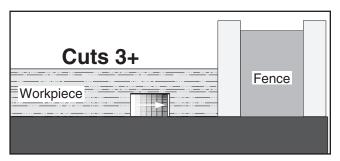


Figure 64. Additional single-blade dado cuts.

Rabbet Cutting

Commonly used in furniture joinery, a rabbet is an L-shaped groove cut in the edge of the workpiece. Rabbets can be cut with either a dado blade or a standard saw blade.

Rabbet cutting on the edge of the workpiece with a dado blade requires a sacrificial fence (see **Figure 65**). Make the sacrificial fence the same length as the fence and ¾" thick. Attach it to the fence with screws or clamps, making sure they are all secure and tight. Raise the blade into the sacrificial fence to the height needed.

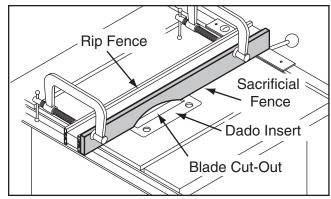


Figure 65. Example of sacrificial fence.

When using a dado blade, the included dado table insert must be installed and used during rabbeting operations.

WARNING

Dado blades have a higher risk of kickback than normal blades because their larger size applies stronger forces to the workpiece. This risk increases relative to the depth and width of the cut. To minimize your risk of serious personal injury, ensure that stock is flat and straight, and make multiple light cuts (rather than one deep cut) to achieve the desired cutting depth.

ACAUTION

Always use push sticks, featherboards, push paddles and other safety accessories whenever possible to increase safety and control during operations which require that blade guard be removed from saw. ALWAYS replace blade guard after dadoing is complete.

Cutting Rabbets with a Dado Blade

- DISCONNECT MACHINE FROM POWER!
- Adjust dado blade to height needed for rabbeting operation. When cutting deep rabbets, take more than one pass to reduce risk of kickback.
- **3.** Adjust fence and align workpiece to perform cutting operation, as shown in **Figure 66**.

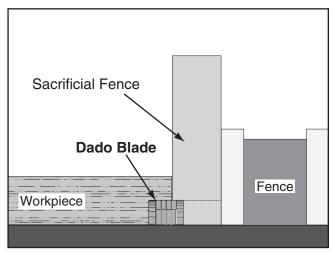


Figure 66. Rabbet cutting.

- 4. Reconnect saw to power source and turn saw ON. When blade has reached full speed, perform a test cut with a scrap piece of wood.
 - —If cut is satisfactory, repeat cut with workpiece.

Cutting Rabbets with a Standard Blade

A ripping blade is typically the best blade to use for cutting rabbets when using a standard blade because it removes sawdust very efficiently. (See **Page 31** for blade details.) Also, a sacrificial fence is not required when cutting rabbets with a standard blade.

To cut rabbets with a standard blade:

- DISCONNECT MACHINE FROM POWER!
- **2.** Ensure that riving knife and standard table insert are installed.
- 3. Mark width of rabbet cut on edge of workpiece, so you can clearly identify intended cut while it is laying flat on saw table.
- **4.** Raise blade up to desired depth of cut (depth of rabbet channel desired).
- 5. Stand workpiece on edge, as shown in Figure 67, then adjust fence so blade is aligned with inside of your rabbet channel.

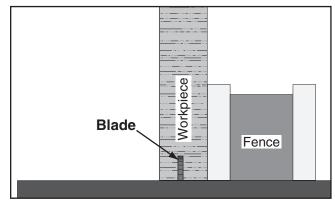


Figure 67. Example of rabbet cutting with a standard blade.

—If workpiece is very tall, or is unstable when placed against fence, lay it flat on table and use a dado blade to perform rabbet cut.





DO NOT place a tall board on edge to perform a rabbet cut with a standard blade. Workpieces that are too tall to properly support with fence can easily shift during operation and cause kickback. Instead, place stock flat on saw and perform rabbet cut with a dado blade, as instructed on Page 48.

- **6.** Reconnect saw to power source, then perform cut.
- Lay workpiece flat on table, as shown in Figure 68, adjust saw blade height to intersect with first cut, then perform second cut to complete rabbet.

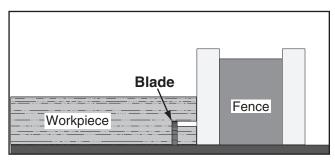


Figure 68. Example of second cut to create a rabbet.

Resawing

ACAUTION

Resawing operations require proper procedures to avoid serious injury. Extra care must be taken to prevent kickback when resawing. Any tilting or movement of the workpiece away from the fence will cause kickback. Be certain that stock is flat and straight. Failure to follow these warnings could result in serious personal injury.

Resawing is the process of cutting a thick piece of stock into one or more thinner pieces. Although resawing can be done with a table saw, we strongly recommend that you use a bandsaw instead.

A bandsaw is the ideal machine for resawing, and resawing with one is fairly easy and safe. A table saw is not intended for resawing, and resawing with one is difficult and dangerous due to the increased risk of kickback from binding and deep cuts, and the increased risk of injury from having to remove the guard.

If you insist on resawing with a table saw, DO NOT do so without using a resaw barrier and wearing a full face shield. The following instructions describe how to build a resaw barrier and add an auxiliary fence to your standard fence, to reduce the risk injury from resawing on a table saw.

Note: To determine the maximum resawing height for this table saw, find the maximum blade height, then double it and subtract ½".

Continued on next page —



Making Resaw Barrier

When resawing, the resaw barrier acts in tandem with the rip fence to provide tall support for the workpiece. This minimizes the probability of it binding against the blade and causing kickback.

Tools Needed:	Qty
Table Saw	1
Jointer and Planer	Recommended
Clamps	2 Minimum
Drill	1
Drill Bits 1/8", 9/64"	1 Each
Countersink Bit	1

Components Needed for Resaw Barrier:

Wood* 3/4" x 51/2" x Length of Fence	1
Wood* 3/4" x 3" x Length of Fence	1
Wood Screws #8 x 2"	4
Wood GlueAs N	eeded

^{*}Only use furniture-grade plywood, kiln-dried hardwood, or HDPE plastic to prevent warping.

To build a resaw barrier:

- 1. Cut your wood pieces to size specified above. If you are using hardwood, cut pieces oversize, then joint and plane them to correct size to make sure they are square and flat.
- 2. Pre-drill and countersink four holes approximately \(^3\mathref{8}\)" from bottom of 5\(^1\angle\)" tall wood piece.
- **3.** Glue end of 3" board, clamp boards at a 90° angle with larger board in vertical position, as shown in **Figure 69**, then fasten together with wood screws.

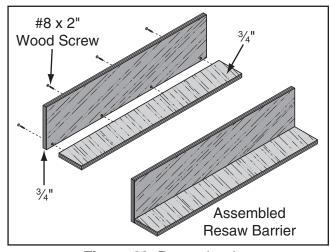


Figure 69. Resaw barrier.

Making Auxiliary Fence

An auxiliary fence is necessary if you are resawing a workpiece that is taller than it is wide. The fence should be no less than ½" shorter than the board to be resawn.

The fence should be similar to the one in **Figure 70** when installed.

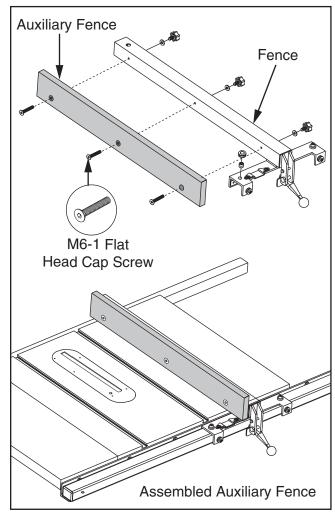


Figure 70. Example of auxiliary fence attached to Model G0833P fence face.

Tools Needed:	Qty
Clamps	2
Drill	1
Drill Bit 7/32"	1
Countersink Drill Bit	1
Hex Wrench 5mm	1
Ruler	1

Components Needed:

Flat Head Cap Screws M6-1 x (Auxiliary	Fence
Width + Fence Tube Width)	3
Wood* 3/4" x 4" x Length of Fence	1

*Only use furniture-grade plywood, kiln-dried hardwood, or HDPE plastic to prevent warping.

To build an auxiliary fence:

- Cut auxiliary fence board to size. If you are using hardwood, cut board oversize, then joint and plane board to correct size to make sure board is square and flat.
- 2. Unthread (3) knobs and (3) flat washers securing fence face to fence tube shown in **Figure 71**, then remove fence.

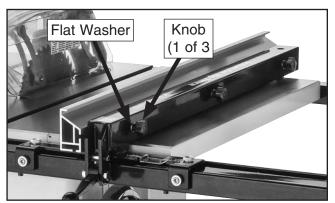


Figure 71. Location of knobs and flat washers securing fence to fence tube.

- 3. Place auxiliary fence board against fence tube. Place a thin metal shim (such as a ruler) between table and bottom of auxiliary fence board to ensure adequate clearance between fence board and table. Clamp in position.
- **4.** Mark location of three mounting holes on auxiliary fence and remove auxiliary fence board from fence tube.
- 5. Using 7/32" drill bit, drill mounting holes in auxiliary fence board. Countersink holes 1/16" deep so head of flat head cap screws sits slightly beneath face of auxiliary fence board.
- 6. Insert (3) flat head cap screws through holes in auxiliary fence board (see **Figure 70**) and secure with knobs and flat washers removed earlier. The end result should be similar to **Figure 72**.

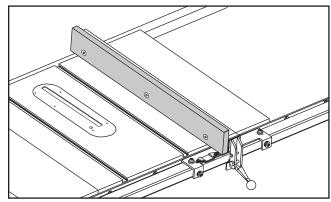


Figure 72. Example auxiliary fence attached to included fence.

Resawing Operations

The table saw motor is pushed to its limits when resawing. If the motor starts to bog down, slow down your feed rate. Motor overloading and blade wear can be reduced by using a ripping blade. Ripping blades are designed to clear the sawdust quickly.

Components Needed for Resawing:

Zero-Clearance Insert	1
Ripping Blade 10"	1
Clamps	2
Shop-Made Auxiliary Fence	1
Shop-Made Resaw Barrier	1

AWARNING

You may experience kickback during this procedure. Stand to the side of the blade and wear safety glasses and a full face shield to prevent injury when resawing.

To perform resawing operations:

- DISCONNECT MACHINE FROM POWER!
- 2. Remove standard table insert and blade guard assembly.
- Install a ripping blade, install riving knife, lower blade below table surface, then install zero-clearance table insert.
- **4.** Attach auxiliary fence and set it to desired width.

Note: When determining correct width, don't forget to account for blade kerf and inaccuracy of fence scale while auxiliary fence is installed.

 Place workpiece against auxiliary fence and slide resaw barrier against workpiece, as shown in Figure 73. Now clamp resaw barrier to top of table saw at both ends.

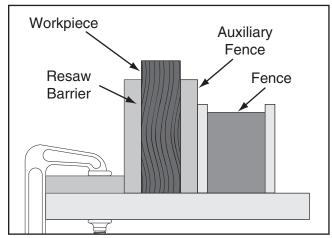


Figure 73. Ideal resaw workpiece setup.

- 6. Lower blade completely below table-top, and slide workpiece over blade to make sure it moves smoothly and fits between resaw barrier and fence.
- Raise blade approximately 1 inch, or close to half the height of workpiece (see Figure 74), whichever is less.

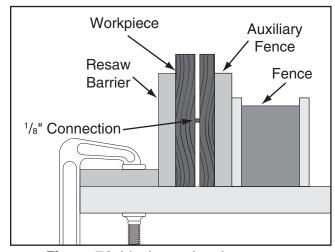


Figure 74. Ideal completed resaw cut.

8. Plug in table saw, turn it *ON*, and use a push stick or push block to feed workpiece through blade, using a slow and steady feed rate.

Note: We recommend making a series of light cuts that get progressively deeper, to reduce the chance of stalling the motor.

- **9.** Flip workpiece end-for-end, keeping same side against fence, and run workpiece through blade.
- 10. Repeat Steps 7–9 until blade is close to half the height of board to be resawn. The ideal completed resaw cut will leave a 1/8" connection when resawing is complete as shown in Figure 74 on Page 48. Leaving a 1/8" connection will reduce risk of kickback.
- **11.** Turn *OFF* table saw, then separate parts of workpiece and hand plane remaining ridge to remove it.
- **12.** When finished resawing, remove resaw barrier and auxiliary fence, then re-install blade guard/spreader or riving knife and standard table insert.

AWARNING

The danger of kickback increases relative to the depth of a cut. Reduce the risk of kickback by making multiple passes to achieve the desired depth of cut. Failure to follow these warnings could result in serious personal injury.

AWARNING

Always use push sticks or push paddles to increase safety and control during operations which require that the blade guard and spreader must be removed from the saw. ALWAYS replace blade guard after resawing is complete.



SECTION 5: SHOP MADE SAFETY ACCESSORIES

Featherboards

Easily made from scrap stock, featherboards provide an added degree of protection against kickback, especially when used together with push sticks. They also maintain pressure on the workpiece to keep it against the fence or table while cutting, which makes the operation easier and safer because the cut can be completed without the operator's hands getting near the blade. The angled ends and flexibility of the fingers allow the workpiece to move in only one direction.

Making a Featherboard

This sub-section covers the two basic types of featherboards: 1) Those secured by clamps, or 2) those secured with the miter slot.

Material Needed for Featherboard

Hardwood	3/4"	X	3"	Х	10"	(Minimum)
Hardwood	3/4"	Х	6"	Х	28"	(Maximum) 1

Additional Material Needed for Mounting Featherboard in Miter Slot

Hardwood $\%$ " x (Miter Slot Width) x 5"L	. 1
Ning Nut 1/4"-20	.1
Flat Head Screw 1/4"-20 x 2"	. 1
Flat Washer 1/4"-20	.1

To make a featherboard:

- 1. Cut a hardwood board approximately ¾" thick to size. The length and width of the board can vary according to your design. Most featherboards are 10"-28" long and 3"-6" wide. Make sure the wood grain runs parallel with the length of the featherboard, so the fingers you will create in Step 3 will bend without breaking.
- 2. Cut a 30° angle at one end of the board.

ACAUTION

We recommend using a bandsaw for making fingers in the next step because it tends to be safer. A table saw can be used, but it will over-cut the underside of the ends, produce a thicker kerf, and require you to stop the blade half-way through the cut, which can be dangerous.

3. Make a series of end cuts with the grain \(^3/8\)"-\(^1/4\)" apart and 2\"-3\" long, as shown in Figure 75 (A). Alternatively, start cuts at 2\"-3\" deep, then make them progressively deeper, as shown in Figure 75 (B).

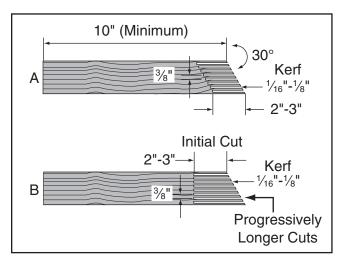


Figure 75. Patterns for featherboards (top view shown).

IMPORTANT: Cuts made across the grain result in weak fingers that easily break when flexed. When made correctly, the fingers should withstand flexing from moderate pressure. To test the finger flexibility, push firmly on the ends with your thumb. If the fingers do not flex, they are likely too thick (the cuts are too far apart).

NOTICE

Only Steps 1–3 are required to make a clamp-mounted featherboard. Refer to Page 57 for instructions on clamping.



4. Rout a $\frac{1}{4}$ "- $\frac{3}{8}$ " wide slot 4"-5" long in workpiece and 1"-2" from short end of featherboard (see **Figure 76**).

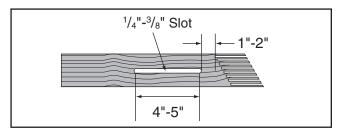


Figure 76. Slot routed in featherboard.

5. Cut a miter bar approximately 5" long that will fit in table miter slot, as shown in **Figure 77**.

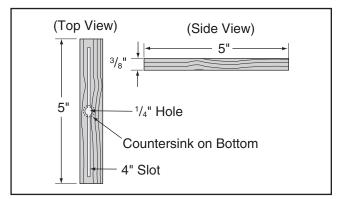


Figure 77. Miter bar pattern.

Tip: Consider making miter bar longer for larger featherboards—approximately half the length of total featherboard—to support force applied to the featherboard during use.

6. Drill a ½" hole in center of bar, then countersink bottom to fit a ½"-20 flat head screw.

- 7. Mark a 4" line through center of countersunk hole in center, then use a jig saw with a narrow blade to cut it out.
- **8.** Assemble miter bar and featherboard with a ½"-20 x flat head screw, flat washer, and a wing nut or a star knob (see **Figure 78**). Congratulations! Your featherboard is complete.

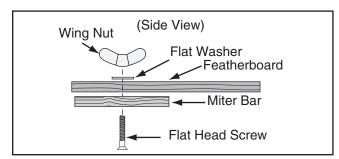


Figure 78. Assembling miter slot featherboard components.

Note: The routed slot, countersink hole, and flat head screw are essential for miter bar to clamp into miter slot. When wing nut is tightened, it will draw flat head screw upward into countersunk hole. This will spread sides of miter bar and force them into walls of miter slot, locking featherboard in place.

Tip: The length of the flat head screw depends on thickness of featherboard—though 1½" to 2" lengths usually work.

Now, proceed to **Mounting Featherboard in Miter Slot** on **Page 52**.

Mounting Featherboards w/Clamps

- Lower saw blade, then adjust fence to desired width and secure it.
- 2. Place workpiece against fence, making sure it is 1" in front of the blade.
- 3. Place a featherboard on table away from blade so all fingers point forward and contact workpiece (see **Figure 79**).

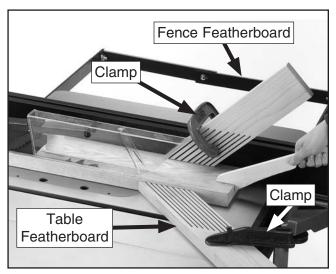


Figure 79. Example of featherboards secured with clamps.

- **4.** Secure featherboard to table with a clamp.
- **5.** Check featherboard by pushing it with your thumb to ensure it is secure.
 - —If featherboard moves, tighten clamp more.
- 6. Optional: If cutting long workpieces, it may be beneficial to use a second featherboard attached to fence to keep board firmly against table while feeding.

Mounting Featherboard in Miter Slot

- Lower saw blade, then adjust fence to desired width and secure it.
- 2. Place workpiece evenly against fence, making sure it is 1" in front of blade.
- 3. Slide featherboard miter bar into miter slot, making sure fingers slant toward blade, as shown in **Figure 80**.

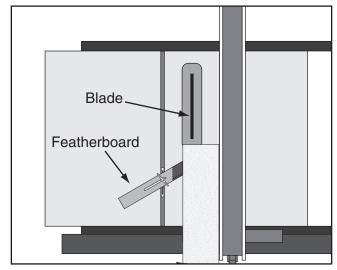


Figure 80. Featherboard installed in miter slot and supporting workpiece for ripping cut.

- 4. Position fingered edge of featherboard against edge of workpiece, so that all fingers contact workpiece. Slide featherboard toward blade until first finger is nearly even with end of workpiece, which should be 1" away from blade.
- 5. Double-check workpiece and featherboard to ensure they are properly positioned, as described in Step 4. Then secure featherboard to table. Check featherboard by hand to make sure it is tight.

Note: The featherboard should be placed firmly enough against workpiece to keep it against fence but not so tight that it is difficult to feed workpiece.



Push Sticks

When used correctly, push sticks reduce the risk of injury by keeping hands away from the blade while cutting. In the event of an accident, a push stick can also absorb damage that would have otherwise happened to hands or fingers.

Using a Push Stick

Use push sticks whenever your hands will get within 12" of the blade. To maintain control when cutting large workpieces, start the cut by feeding with your hands then use push sticks to finish the cut, so your hands are not on the end of the workpiece as it passes through the blade.

Feeding: Place the notched end of the push stick against the end of the workpiece (see **Figure 82** below), and move the workpiece into the blade with steady downward and forward pressure.

Supporting: A second push stick can be used to keep the workpiece firmly against the fence while cutting. When using a push stick in this manner, only apply pressure before the blade; otherwise, pushing the workpiece against or behind the blade will increase the risk of kickback (see "Push Stick Prohibition Zone" in the **Figure** below).

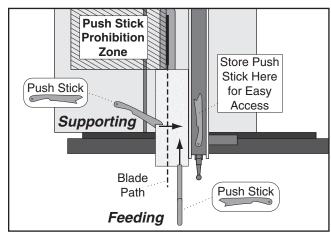


Figure 81. Using push sticks to rip narrow stock.

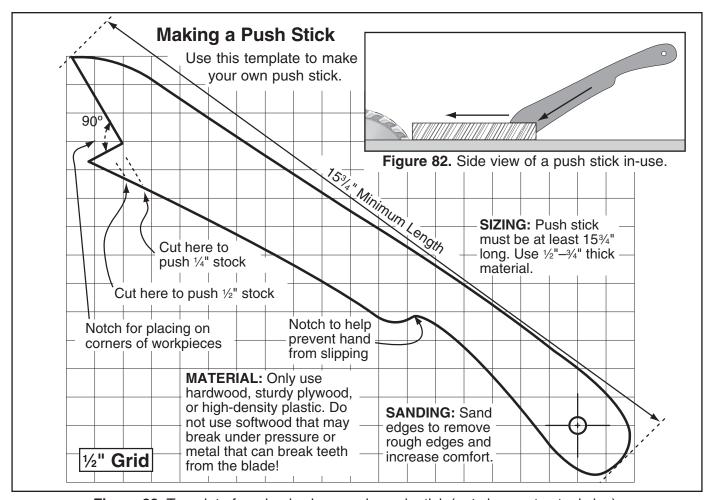


Figure 83. Template for a basic shop-made push stick (not shown at actual size).



Push Blocks

When used correctly, a push block reduces the risk of injury by keeping hands away from the blade while cutting. In the event of an accident, a push block often takes the damage that would have otherwise happened to hands or fingers.

Using a Push Block

A push block can be used in place of or in addition to a push stick for feeding workpieces into the blade. Due to their design, push blocks allow the operator to apply firm downward pressure on the workpiece that could not otherwise be achieved with a push stick.

The push block design on this page can be used in two different ways (see inset **Figure** below). Typically, the bottom of the push block is used until the end of the workpiece reaches the blade.

The notched end of the push block is then used to push the workpiece the rest of the way through the cut, keeping the operator's hands at a safe distance from the blade. A push stick is often used at the same time in the other hand to support the workpiece during the cut (see **Using a Push Stick** on previous page).

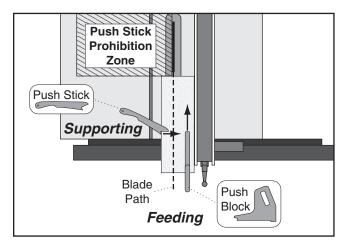


Figure 85. Using a push block and push stick to make a rip cut.

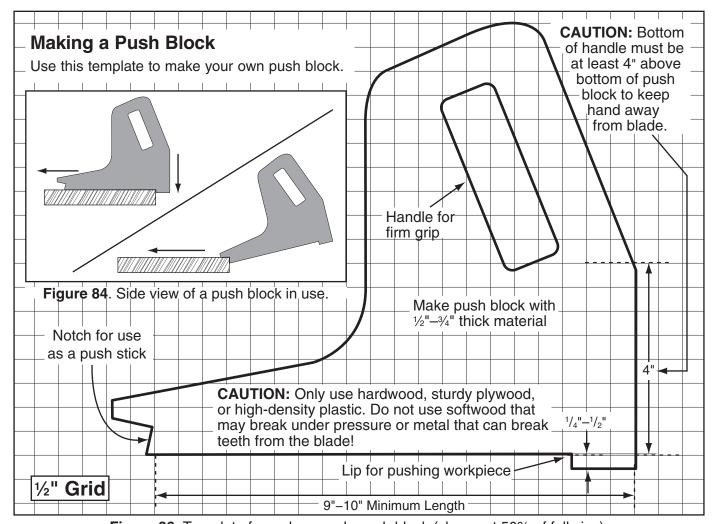


Figure 86. Template for a shop-made push block (shown at 50% of full size).



Narrow-Rip Auxiliary Fence & Push Block

There are designs for hundreds of specialty jigs that can be found in books, trade magazines, and on the internet. These types of jigs can greatly improve the safety and consistency of cuts. They are particularly useful during production runs when dozens or hundreds of the same type of cut need to be made.

The narrow-rip auxiliary fence and push block system shown in this section is an example of a specialty jig that can be made to increase the safety of very narrow rip cuts.

Material Needed for Narrow Rip Auxiliary Fence & Push Block

Hardwood ³ / ₄ " x 3" x Length of Fence1
Plywood 3/4" x 51/4" x Length of Fence
Wood Screws #8 x 1½"8

Material Needed for Push Block

Hardwood or Plywood 3/4" x 15"	' x 5 ⁵ / ₈ "1
Hardwood or Plywood 3/4" x 10"	' x 5"–9"1
Cyanoacrylate Wood Glue	Varies
Wood Screws #8 x 11/2"	As Needed

Making a Narrow-Rip Push Block for an Auxiliary Fence

1. Cut a piece of 3/4" thick plywood 51/4" wide and as long as your table saw fence; cut a piece of 3/4" thick hardwood 3" wide and as long as your table saw fence, as shown in Figure 87.

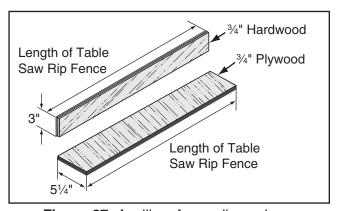


Figure 87. Auxiliary fence dimensions.

Note: We recommend cutting hardwood board oversize, then jointing and planing it to correct size to make sure board is square and flat. Only use furniture-grade plywood or kiln-dried hardwood to prevent warping.

2. Pre-drill and countersink eight pilot holes 3/8" from bottom of 3" wide board, then secure boards together with eight #8 x 11/2" wood screws, as shown in **Figure 88**.

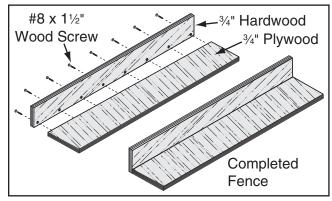


Figure 88. Location of pilot holes.

3. Using ³/₄" material you used in previous steps, cut out pieces for push block per dimensions shown in **Figure 89**; for handle, cut a piece 10" long by 5"–9" high and shape it as desired to fit your hand.

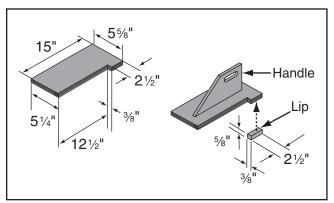


Figure 89. Push block dimensions and construction.

4. Attach handle to base with #8 x 1½" wood screws, and attach lip to base with cyanoacrylate-type wood glue.

Using Auxiliary Fence & Push Block

 Place auxiliary fence on table and clamp it to fence at both ends, then adjust distance between auxiliary fence and blade this determines how wide workpiece will be ripped (see Figure 90).

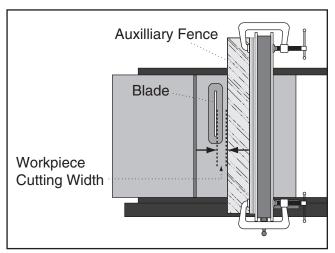
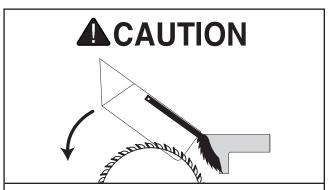


Figure 90. Adjusting ripping distance between blade and auxiliary fence.

Install blade guard, then secure spreader pawls in upright position, as shown in Figure 52 on Page 39, so they do not interfere with push block lip.



Keep the blade guard installed and in the down position. Failure to do this could result in serious personal injury or death.

3. Place workpiece 1" behind blade and evenly against table and auxiliary fence.

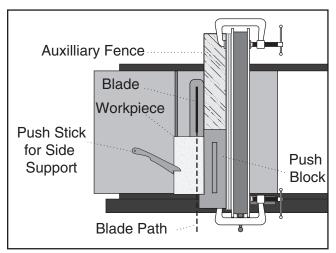


Figure 91. Push block in position to push workpiece through blade.

- **4.** Turn saw **ON**, then begin ripping workpiece using a push stick for side support.
- 5. As workpiece nears end of cut, place push block on auxiliary fence with lip directly behind workpiece, then release push stick just before blade.
- **6.** Guide workpiece rest of way through cut with push block, as shown in **Figure 92**.

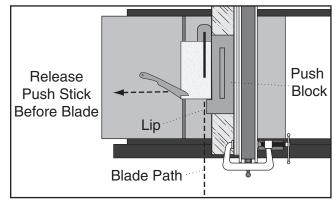


Figure 92. Ripping with push block.

AWARNING

Turn *OFF* the saw and allow blade to come to a complete stop before removing cut-off piece. Failure to follow this warning could result in serious personal injury.



Outfeed & Support Tables

One of the best accessories for improving the safety and ease of using a table saw is simply placing a large table (outfeed table) behind the saw to catch the workpiece (see **Figure 93**). Additionally, another table to the left of the saw (support table) can also help support large workpieces so they can be cut safely and accurately.

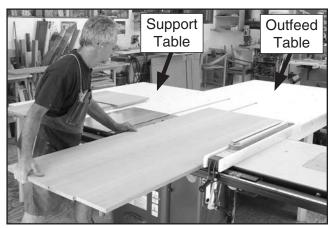


Figure 93. Example of outfeed & support tables.

Crosscut Sled

A crosscut sled (see **Figure 94**) is a fantastic way to improve the safety and accuracy of crosscutting on the table saw. Most expert table saw operators use a crosscut sled when they have to crosscut a large volume of work, because the sled offers substantial protection against kickback when crosscutting.



Figure 94. Example of crosscut sled.

SECTION 6: AFTERMARKET ACCESSORIES FROM GRIZZLY

AWARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

D4206—Clear Flexible Hose 4" x 10'

W1034—Heavy-Duty Clear Flex Hose 4" x 10'

W1015—Y-Fitting 4" x 4" x 4"

W1017-90° Elbow 4"

W1019—Hose Coupler (Splice) 4"

W1317—Wire Hose Clamp 4"

W1007—Plastic Blast Gate 4"

W1053—Anti-Static Grounding Kit

We've hand picked a selection of commonly used dust collection components for machines with 4" dust ports.



Figure 95. Dust collection accessories.

T23279—Zero Clearance Insert for G0833P

G1163P—1HP Floor Model Dust Collector G0710—1HP Wall-Mount Dust Collector H4340—3.0 Micron Upgrade Bag

Excellent point-of-use dust collectors that can be used next to the machine with only a small amount of ducting. Specifications: 450 CFM, 7.2" static pressure, 2 cubic foot bag, and 30 micron filter. Motor is 1HP, 110V/220V, 14A/7A.



Figure 96. Point-of-use dust collectors.

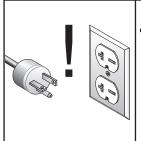
Forrest Dado Blades H4756— 8", 24 Teeth, ¼"-29/32" Groove T23267—8", 24 Teeth, ¾16"-¼" Groove

The world's finest dado head clean cuts all your grooves! No splintering when cross-cutting oak, ply veneers and melamine. Perfect for flat-bottomed grooves. No staggered steps or round bottoms like a wobble-dado leaves! Cuts in all directions - rip, cross-cut, miter, any depth. Cuts all sized grooves 1/4" through 29/32" increments.



Figure 97. H4756 Dado Blade.

SECTION 7: MAINTENANCE



ACAUTION

To prevent serious personal injury from shock or accidental startup, always disconnect power from machine before doing any maintenance.

Schedule

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

Daily Check:

- Loose mounting bolts/arbor nut.
- Damaged saw blade.
- Worn or damaged wires.
- Any other unsafe condition.

Weekly Maintenance:

- Clean table surface and miter slot grooves.
- Clean and protect cast-iron table.
- Clean rip fence.

Monthly Maintenance:

- Clean/vacuum dust buildup from inside cabinet and off motors.
- Check/replace belt for proper tension, damage or wear (Page 80).

Every 6-12 Months:

- Lubricate trunnion slides (Page 67).
- Lubricate worm gear and bull gear (Page 67).
- Lubricate leadscrew (Page 67).

Cleaning & Protecting

Cleaning the Model G0833P is relatively easy. Vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin-dissolving cleaner to remove it.

Protect the unpainted cast-iron table by wiping it clean after every use—this ensures moisture from wood dust does not remain on the bare metal surface. Keep the table rust-free with regular applications of products like G96® Gun Treatment, SLIPIT®, or Boeshield® T-9.

G5562—SLIPIT® 1 Qt. Gel G5563—SLIPIT® 12 Oz. Spray G2871—Boeshield® T-9 12 Oz. Spray G2870—Boeshield® T-9 4 Oz. Spray H3788—G96® Gun Treatment 12 Oz. Spray H3789—G96® Gun Treatment 4.5 Oz. Spray



Figure 98. Recommended products for protecting unpainted cast iron/steel parts on machinery.

Lubrication

It is essential to clean components before lubricating them because dust and chips build up on lubricated components and make them hard to move. Simply adding more grease to them will not yield smooth moving components.

Clean the components in this section with an oil/ grease solvent cleaner and shop rags.

If you thoroughly clean the components in this section before lubricating them, the result will be silky smooth movement when turning the handwheels, which will result in much higher enjoyment on your part!

The following are the main components that need to be lubricated:

- Trunnion Slides
- Worm Gear, Bull Gear, and Leadscrew

Items Needed	Qty
NLGI#2 Grease or Equivalent	As Needed
Mineral Spirits	As Needed
Clean Shop Rags	As Needed

Trunnion Slides

Lubrication Type T2641	9 or NLGI#2 Equivalent
Amount	1-2 Dabs
Lubrication Frequency	6-12 Months

Clean out the front and rear trunnion slides with mineral spirits and a rag, then apply grease into each groove. Move the blade tilt back-and-forth to spread the grease (see **Figure 99**).

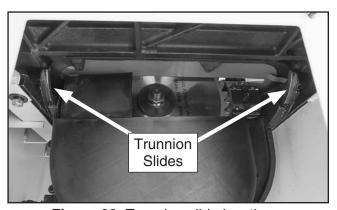


Figure 99. Trunnion slide locations.

Worm Gear, Bull Gear & Leadscrew

Lubrication Type T264	19 or NLGI#2 Equivalent
Amount	Dab
Lubrication Frequency	6–12 Months

Clean away any built up grime and debris from the worm gear, bull gear, and leadscrew (see **Figures 100–101**) with a wire brush, rags, and mineral spirits. Allow the components to dry, then apply a thin coat of grease to them.

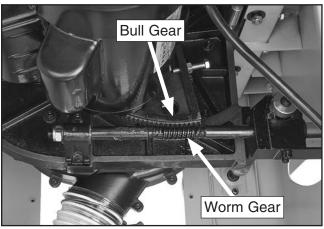


Figure 100. Worm and bull gear location.

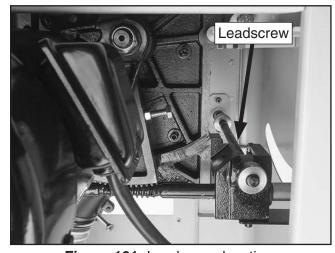


Figure 101. Leadscrew location.



SECTION 8: SERVICE

Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting

Symptom	Possible Cause	Possible Solution
Machine does not	Locking pin installed in switch.	Remove locking pin from START button.
start, or power	2. Machine circuit breaker tripped.	Reset circuit breaker on switch.
supply breaker	3. Power supply circuit breaker tripped or fuse	3. Ensure circuit is sized correctly and free of shorts.
immediately trips after startup.	blown.	Reset circuit breaker or replace fuse.
alter Startup.	4. Plug/receptacle at fault/wired incorrectly.	4. Test for good contacts; correct the wiring.
	5. Motor wires connected incorrectly.	5. Correct motor wiring connections (Page 85).
	6. Wiring open/has high resistance.	6. Check/fix broken, disconnected, or corroded wires.
	7. START/STOP switch or circuit breaker at	7. Replace switch/circuit breaker.
	fault.	
	8. Start capacitor at fault.	8. Test/replace if faulty.
	9. Motor at fault.	9. Test/repair/replace.
Machine stalls or is	Feed rate/cutting speed too fast.	Decrease feed rate/cutting speed.
underpowered.	2. Workpiece material unsuitable for machine.	2. Only cut wood/ensure moisture is below 20%.
	3. Motor overheated; tripping machine circuit	3. Clean motor/let cool, and reduce workload. Reset
	breaker.	breaker.
	4. Blade dull or incorrect for type of cut.	4. Use correct, sharp blade; reduce feed rate.
	5. Belt(s) slipping.	5. Tension/replace belt(s).
	6. Motor wired incorrectly.	6. Wire motor correctly (Page 85).
	7. Pulleys slipping on shaft or misaligned.	7. Tighten/replace loose pulley; ensure pulleys are
		aligned (Page 80)
	8. Run capacitor at fault.	8. Test/repair/replace.
	9. Motor bearings at fault.	9. Test/repair/replace.
	10. Contactor not energized/has poor contacts.	10. Test all legs for power/replace if faulty.
	11. Centrifugal switch at fault.	11. Adjust/replace centrifugal switch if available.
	12. Motor at fault.	12. Test/repair/replace.
Machine has	Motor or component loose.	Inspect/replace damaged bolts/nuts, and re-tighten
vibration or noisy		with thread-locking fluid.
operation.	2. Blade at fault.	Replace warped/bent blade; resharpen dull blade.
	3. Belt(s)/pulley(s) worn, loose, or misaligned.	3. Inspect/replace belts with new matched set. Realign/
		replace shaft, pulley, set screw, and key (Page 80).
	4. Motor mount loose/broken.	4. Tighten/replace.
	5. Machine incorrectly mounted/resting on	5. Tighten mounting bolts; relocate/shim machine.
	floor.	
	6. Arbor pulley loose.	6. Retighten/replace arbor pulley.
	7. Motor fan rubbing on fan cover.	7. Fix/replace fan cover; replace loose/damaged fan.
	8. Arbor bearings at fault.	8. Replace arbor housing bearings; replace arbor.
	9. Motor bearings at fault.	9. Test by rotating shaft; grinding/loose shaft requires
		bearing replacement.



Symptom	Possible Cause	Possible Solution
Rip fence does not move smoothly.	 Rip fence mounted/adjusted incorrectly. Rails dirty or sticky. 	 Remount rip fence. Adjust fence (Page 76) to ensure adjustment screws are not too tight. Clean and wax rails.
Material moves away from fence when ripping.	 Improper feeding technique. Fence not parallel with blade. 	 Learn/use proper feeding technique. Adjust fence parallel with blade (Page 75).
Blade not parallel with miter slot.	Blade warped/damaged/dull.	1. Replace blade (Page 35).
Blade tilt does not stop at 45°/90°.	1. 45°/90° stop out of adjustment. Sawdust built up in/on trunnions.	from trunnions. Clean and re-lubricate as necessary.
Blade hits table insert when tilting to 45°.	 Sawdust/debris stuck in trunnion slides. Table/trunnion assembly mount position not correct. 	 Clean sawdust or debris out of trunnion slides. Adjust table or trunnion mounting position (Page 65).
	3. Miter slot not parallel with blade.4. Blade incorrectly installed.	3. Make miter slot parallel with blade; shim table (Page 65).4. Correctly install blade (Page 35).
Board binds or burns when feeding through table saw.	 Blade warped/damaged/dull. Too many teeth on blade for cutting type. Fence not parallel to blade. Miter slot not parallel with blade. Riving knife or spreader not correctly aligned with blade. Spreader not correctly aligned with blade. 	 Replace blade (Page 35). Change blade to one with fewer teeth. Adjust fence parallel with blade (Page 75). Make miter slot parallel with blade (Page 65). Adjust riving knife or spreader into alignment with blade (Page 67). Adjust spreader into alignment with blade (Page 67).
Handwheel binds or is difficult to move.	 Spreader not correctly aligned with blade. Lock knob is tightened. Handwheel shaft pins are wedged. 	Loosen lock knob. Remove handwheel and adjust shaft pins.
Blade too close to insert.	 Blade or arbor washers incorrectly installed on arbor. Table/trunnion assembly mount position not correct. 	Verify blade and arbor washers are correctly installed in the required positions.
Blade will not go beneath table surface.	Roll pin/set screw in worm gear contacting geared trunnion.	Tighten roll pins and set screws in the worm gear.
Blade will not move up or down.	Set screw on worm gear is loose or missing.	Tighten or replace set screw.
Too much sawdust blown back toward operator.	 Blade guard removed. Too many air leaks in cabinet for proper dust collection. 	 Re-install blade guard for maximum safety and dust control (Page 37). Seal leaks in cabinet or around blade guard dust port.
	3. Dust collection system clogged or lacks required CFM at machine.4. Fence not parallel with blade (pressure at blade backside).	 3. Remove clog; revise ducting layout for improved suction; use a different dust collector. 4. Adjust fence parallel with blade (Page 75).
Workpiece catches on table/dado insert or table throat during cutting operation.	 Miter slot not parallel with blade. Table/dado insert out of adjustment. 	 Make miter slot parallel with blade (Page 65). Adjust table/dado insert so it is perfectly flush with table surface (Page 78).



Blade Tilt Stops

The table saw features stop collars that stop the blade exactly at 45° and 90° when tilting it with the handwheel. The stops have been set at the factory and should require no adjustments, unless you notice that your cuts are not accurate.

Note: The tilt scale reads "0" when the blade is 90° to the table.

Tools Needed	Qty
90° Square	
45° Square	1
Hex Wrench 2.5mm	1
Hex Wrench 3mm	1

Setting 90° Stop Collar

- 1. DISCONNECT MACHINE FROM POWER!
- Raise blade as high as it will go, then tilt it toward 0° until it stops and cannot be tilted any more.
- Place 90° square against table and blade so it contacts blade evenly from bottom to top, as shown in Figure 102. Make sure blade tooth does not obstruct placement of square.

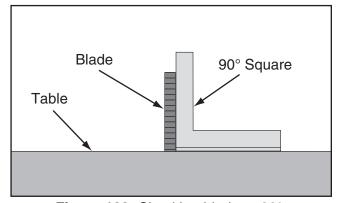


Figure 102. Checking blade at 90°.

—If blade is 90° to table, then adjustments do not need to be made. Make sure tilt indicator arrow shown in **Figure 103** points to 0° mark on scale. Adjust position by loosening button head screw, moving indicator with your fingers, then tightening screw.



Figure 103. Tilt indicator arrow.

- —If blade is not 90° to table, you will need to adjust 90° stop collar. Proceed to next step.
- **4.** Tilt blade away from 0° by about 5°, so there is room for 90° stop collar to move.
- 5. Open motor door, loosen set screws shown in Figure 104, then thread 90° stop collar one turn away from trunnion bracket. This will allow you to square blade in next step.

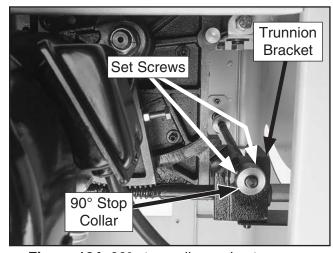


Figure 104. 90° stop collar and set screws.

- Place square against blade, as shown in Figure 102, then adjust blade until it is perfectly square to table.
- 7. Without turning blade tilt leadscrew, fingertighten 90° collar against trunnion bracket, then tighten two set screws to secure collar position.



8. Repeat **Steps 2–3** to verify that collar adjustment you made was correct. When adjustment is satisfactory, close motor door.

Setting 45° Stop Collar

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Raise blade as high as it will go, then tilt it towards 45° until it stops and cannot be tilted any more.
- 3. Place a 45° square against table and blade so it contacts blade evenly from bottom to top, as shown in Figure 105. Make sure a blade tooth does not obstruct placement of square.

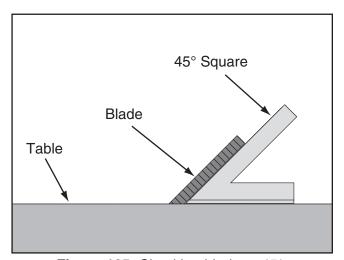


Figure 105. Checking blade at 45°.

- —If blade *is* 45° to table, then adjustments do not need to be made.
- —If blade *is not* 45° to table, you will need to adjust 45° stop collar. Proceed to next step.
- **4.** Tilt blade to 30°, so there is room for stop collar to move.

5. Open right access cover, loosen set screws on 45° stop collar (see Figure 106), then turn collar one turn away from trunnion bracket. This will allow you to adjust blade to exactly 45° in next step.

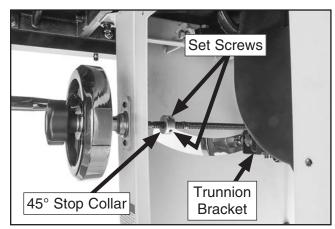


Figure 106. Location of 45° stop collar (right access cover removed).

- 6. Place a 45° square against blade, as shown in **Figure 105**, then adjust blade until it is exactly 45° to table.
- 7. Without turning blade tilt leadscrew, fingertighten 45° stop collar against trunnion bracket, then tighten two set screws to secure collar position.
- **8.** Repeat **Steps 2–3** to verify that collar adjustment you made was correct. When adjustment is satisfactory, close right access cover.



Miter Slot to Blade Parallelism

Your table saw will give the best results if the miter slot and the rip fence are adjusted parallel to the blade. If either of these are not exactly parallel, your cuts and your finished work will be lower in quality, but more importantly, the risk of kickback will be increased.

Tools Needed	Qty
Adjustable Square	1
Marker	1
Metal Shim Stock As N	Needed
Hex Wrench 6mm	1

To adjust blade parallel to miter slot:

- DISCONNECT SAW FROM POWER!
- Tilt blade to 0°, then use an adjustable square to measure distance from miter slot to a carbide tip on blade, as shown in Figure 107. Make sure that face of adjustable square is even along miter slot.

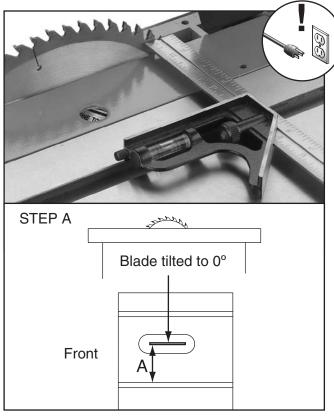


Figure 107. Example of adjusting blade to miter slot.

3. With end of adjustable square just touching tip, lock square in place. Now, mark carbide tip with a marker where you made this measurement.

ACAUTION

The saw blade is sharp. Use extra care or wear gloves when handling the blade or working near it.

- Rotate marked blade tip to other end of table insert
- 5. Slide adjustable square down to other end of table insert and compare distance from marked blade tip to end of adjustable square, as shown in Figure 108.

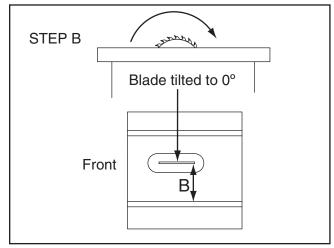


Figure 108. Measuring distance from miter slot to carbide tip on opposite side of table insert.

- —If blade tip measurement is *same* on both sides, go to **Step 8**.
- —If blade tip does not touch end of adjustable square similar to first measurement, table will need to be adjusted. Proceed to Step 6.

 Loosen (4) table mounting bolts securing table top to base (see Figure 109), and lightly tap table in direction needed to square table to blade.

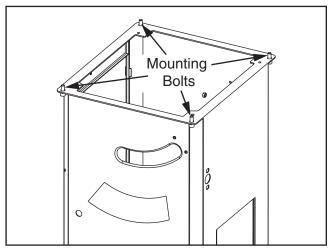


Figure 109. Location of table mounting bolts (table omitted for clarity).

- 7. Repeat **Steps 2–6** until blade and miter slot are parallel, then retighten table mounting bolts.
- **8.** Tilt blade to 45° and recheck miter slot-to-blade parallelism.
 - —If blade is still parallel with miter slot, no additional adjustments need to be made.
 - —If blade is parallel with miter slot at 0° but not at 45°, one end of table will need to be shimmed higher with metal shim stock. Continue to **Step 9**.
- 9. Loosen (4) table mounting bolts from **Step 6**.

10. Refer to Figures 110–111 for shim placement. If distance A is shorter than B, shim(s) will need to be placed under corners #1 and #2. If distance of B is shorter than A, shim(s) will need to be placed under corner #3. Very thin shim stock works well.

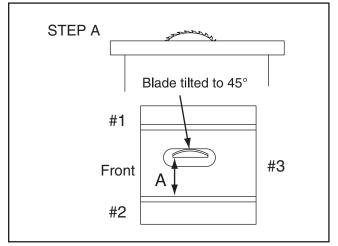


Figure 110. Shim procedure diagram A.

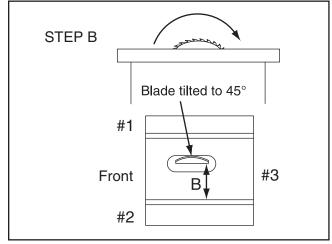


Figure 111. Shim procedure diagram B.

Continued on next page -

- 11. Tighten one table mounting bolt a small amount and then repeat with the others, tightening each down the same amount. Continue this process with all the bolts, tightening them a little each time until they are all secure.
- **12.** Now recheck blade to miter slot at 0° and 45° by repeating **Steps 2-5**.
 - —If distance of A and B are equal, continue to Step 13.
 - —If distances *are not* equal, repeat **Steps 9–12**.
- **13.** Once miter slot is adjusted to blade, recheck all measurements and be sure table mounting bolts are secure.

Note: If you remove the table in the future, note the shim placement and reassemble them exactly how they came apart.

Spreader or Riving Knife Alignment

Checking Alignment

The blade guard spreader and riving knife must be aligned with the blade when installed. If the spreader/riving knife is not aligned with the blade, then the workpiece will before forced sideways during the cut, which will increase the risk of kickback.

Tools Needed	Qty
Straightedge	1

To check spreader/riving knife alignment:

- 1. DISCONNECT MACHINE FROM POWER!
- **2.** Raise saw blade to maximum height so you have easy working access.
- 3. Place straightedge against side of blade and spreader/riving knife at top and bottom, as shown in **Figure 112**. Spreader/riving knife should be parallel with blade along its length at both positions, and in "Alignment Zone," as shown in **Figure 113**.

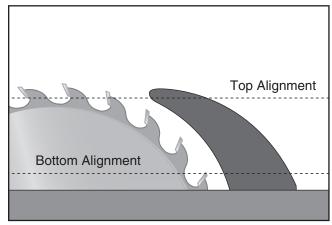


Figure 112. Checking top and bottom riving knife parallelism with blade.



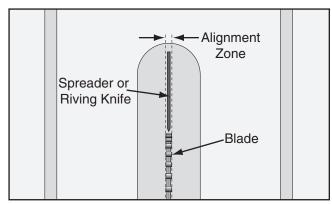


Figure 113. Spreader/riving knife alignment zone.

- —If spreader/riving knife is not parallel with blade and inside alignment zone, then it needs to be adjusted. Proceed to Adjusting Alignment instructions.
- —If spreader/riving knife is not parallel with the blade at either the top or bottom, it may be bent.
- **4.** Remove spreader/riving knife and place it on flat surface and check to see if spreader/riving knife lays evenly along its length.
 - —If spreader/riving knife does not lay evenly, proceed to Adjusting Bent Spreader/ Riving Knife on Page 73.

Adjusting Alignment

The spreader/riving knife mounting position can be adjusted into alignment with the blade using the set screws on the spreader/riving knife mounting block.

To adjust spreader/riving knife position:

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Remove table insert.

3. Loosen (2) cap screws on mounting block, then adjust either top or bottom control set screws or side control set screws (see **Figure 114**) to move it the needed direction.

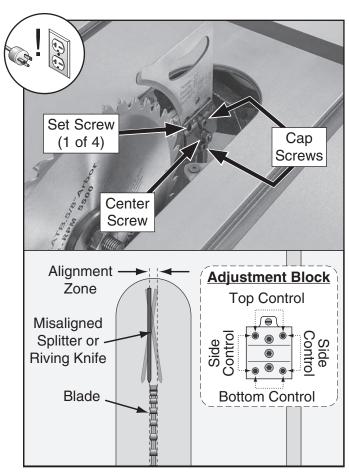


Figure 114. Set screws for adjusting spreader/riving knife position.

Top and Bottom Control: To move the top of the spreader/riving knife right or left (and the bottom of the spreader/riving knife in the opposite direction), adjust the top and bottom pair of set screws on the mounting block an equal amount in the opposite direction.

Side Control: To move the front of the spreader/riving knife left or right (and the rear of the spreader/riving knife in the opposite direction), adjust each pair of side control set screws an equal amount in the opposite direction.

Note: To adjust how tightly the mounting block holds the spreader/riving knife, adjust the center screw.



- Re-install table insert.
- 5. Follow Checking Alignment, Steps 1–3.
 - —If spreader/riving knife *is* in alignment zone, no additional steps are necessary.
 - —If spreader/riving knife is still not in alignment zone, continue adjusting set screws on mounting block as necessary to correctly position spreader/riving knife.
- **6.** Tighten (2) cap screws on mounting block to secure spreader/riving knife adjustment.

Adjusting Bent Spreader/Riving Knife

- 1. DISCONNECT MACHINE FROM POWER!
- Bend spreader or riving knife by hand while installed, then follow Steps 1–3 in Checking Alignment on Page 67 to determine if it is parallel with blade and inside "Alignment Zone" (refer to Figure 112 Checking Alignment on Page 67).
 - —If this doesn't work, remove it to straighten.
 - —If you cannot straighten it properly, replace it.

Fence Adjustments

There are four main adjustments for the fence: height off the table, squareness, parallelism with the miter slot, and clamping pressure. These adjustments are interconnected and some repetition may be needed when adjusting.

Tools Needed	Qty
Hex Wrench 6mm	1
Square	1
Felt-Tipped Marker	1

Height and Square

The fence should be adjusted high enough off the table so that it does not drag across the surface or allow wood chips to get caught between the fence and table. Also, the fence face must be square to the table in order to produce accurate cuts.

To check/adjust fence height and squareness to table:

- DISCONNECT MACHINE FROM POWER!
- 2. Remove fence from saw and place it on a flat surface.
- **3.** Unscrew front lock nuts and adjustment screws shown in **Figure 115** until they are barely threaded into fence flange.
- **4.** Back out rear set screws until they are just threaded into fence flange (see **Figure 115**).

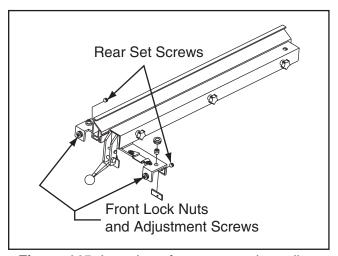


Figure 115. Location of screws used to adjust fence parallelism and clamping pressure.



- 5. Install fence onto table, then loosen fence knobs (see **Figure 116**), pull fence up from center, and tighten each knob.
- **6.** Loosen top lock nuts on fence flange and lock nut on rear rail foot, shown in **Figure 116**.

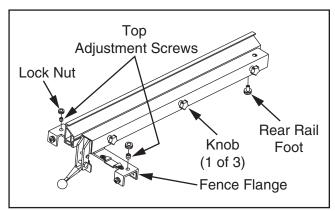


Figure 116. Fence components used to adjust fence height and squareness to table.

- 7. Turn top adjustment screws and rear foot screw so there is approximately 1/16" clearance between bottom of fence and table, front-to-back and side-to-side, then tighten lock nuts.
- **8.** Place square on table and against face of fence, as shown in **Figure 117**, to check if fence is square to table.
 - —If fence *is* square to table, proceed to **Parallelism & Clamping Pressure**.
 - —If fence *is not* square to the table, proceed to **Step 9**.

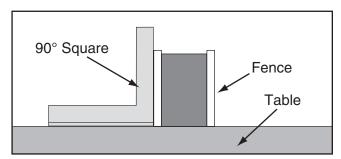


Figure 117. Checking if fence is square to table.

 Loosen top lock nuts and adjust top screws (see Figure 116) to make fence face 90° to table, then tighten lock nuts.

Parallelism & Clamping Pressure

Set screws on the rear side of the fence flange position the fence parallel to the blade and adjust the clamping pressure to hold fence securely. Before starting this procedure, make sure the blade is parallel with the miter slot.

To adjust fence parallelism and clamping pressure:

- 1. DISCONNECT MACHINE FROM POWER!
- **2.** Lock fence, tap front side with your fist, and check to see if it moved sideways over table.
 - —If fence did *not* move, proceed to **Step 5**.
 - —If fence moved, remove it from table and proceed to **Step 3**.
- 3. Turn each rear set screw (see Figure 115 on Page 74) in ½th of a turn.
- 4. Re-install fence and repeat Step 2.
- Slide fence up against right-hand edge of miter slot, as shown in Figure 118, and lock it in place.

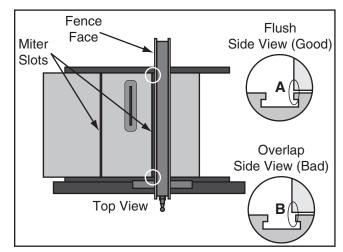


Figure 118. Example of aligning fence to miter slot.

- **6.** Examine how fence lines up with miter slot along its length.
 - —If fence and miter slot are flush from front to rear, as shown in **Figure 118A**, proceed to **Step 8**.
 - —If rear of fence overlaps miter slot, as shown in **Figure 118B**, fence is misaligned. Proceed to **Step 7**.
- Remove fence, then alternately loosen and tighten rear fence set screws in equal amounts to adjust rear of fence until it is parallel with miter slot.
- 8. Loosen both front lock nuts (see Figure 115 on Page 74). Tighten adjustment screws so they just touch fence tube, back off screws ½ turn, then tighten lock nuts.

Optional Offset Fence Adjustment

Some woodworkers prefer to offset the rear of the fence 1/64" from the blade, as shown in **Figure 119**, to help prevent the workpiece from binding and burning.

The argument is that this offset adjustment reduces the chance of kickback by alleviating potential binding that may occur between the backside of the blade and fence. The tradeoff is slightly less accurate cuts.

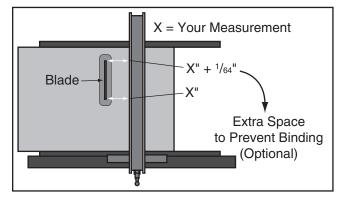


Figure 119. Adjusting fence with a 1/64" offset.

To offset fence:

- 1. DISCONNECT MACHINE FROM POWER!
- 2. With a felt tip pen, mark one saw tooth and rotate blade so this tooth is positioned at back of table insert.
- **3.** Place fence on table, and clamp fence to table.
- **4.** Measure distance between tooth and fence face, as shown in **Figure 119**.
- **5.** Remove fence, and adjust rear set screws as previously discussed to achieve an offset of 1/64" between marked tooth and fence face.
- **6.** Re-install fence and measure distance again between marked tooth and fence face. The rear measurement should be 1/64" greater than previously measured in **Step 4**.

Fence Scale Calibration

The fence scale indicator window, shown in **Figure 120**, can be calibrated with the fence scale if you notice that your cuts do not accurately match what is shown on the fence scale.

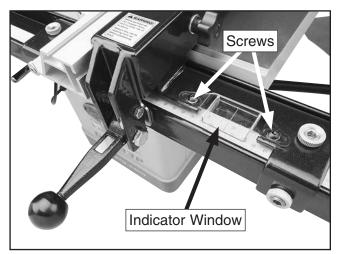


Figure 120. Fence indicator window.

The indicator adjusts by loosening the two mounting screws and sliding it in the desired direction.

Tools Needed	Qty
Hex Wrench 3mm	1
Scrap Piece of Wood	1
Tape Measure	1

To calibrate fence scale indicator windows:

- 1. Position and lock fence at 13", as indicated by scale, then cut your scrap piece of wood.
- 2. Reposition and lock fence at 12", as indicated by scale.
- Flip your scrap piece of wood over, placing side that was cut in Step 2 against fence, and cut your scrap piece of wood.
- 4. Measure width of freshly cut workpiece with tape measure. Workpiece width should be exactly 12". If it is not, then adjust indicator window to match the width of workpiece.

Table/Dado Insert Adjustment

The table/dado insert must sit perfectly flush with the table to provide a smooth, continuous surface for the workpiece to slide over. The insert is held in place by a magnet and sits on top of four adjustment screws (see **Figure 121**).

The insert should be checked and adjusted any time it is removed and replaced, after prolonged use, or any time you notice the workpiece or fence does not slide smoothly over the insert.

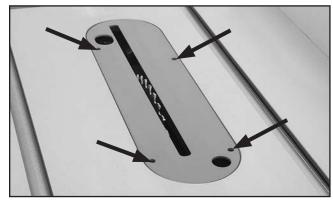


Figure 121. Location of table/dado insert holes with adjustment screws.

Tools Needed	Qty
Hex Wrench 3mm	1
Straightedge	1

To check and adjust insert:

- DISCONNECT MACHINE FROM POWER!
- Place straightedge across insert and check to make sure insert is flush with table at front and back of throat.
 - —If insert is flush with table, no adjustments are necessary.
 - —If insert is not flush with table, proceed to **Step 3**.
- Insert hex wrench through holes shown in Figure 121 and either loosen screws to raise insert, or tighten screws to lower it. Repeat Steps 2–3 until insert is perfectly flush with surface of table.



Miter Gauge Adjustments

The miter gauge can be adjusted so it is perpendicular to the blade and snug in the T-slot.

Tools Needed	Qty
90° Square	
45° Square	1
Hex Wrench 2mm	
Hex Wrench 2.5mm	1
Hex Wrench 4mm	1

Checking/Setting 90° Stops

- 1. DISCONNECT MACHINE FROM POWER!
- 2. Slide miter gauge into T-slot on table.
- 3. Loosen miter gauge lock knob, pull out positive stop knob, then pivot miter gauge body to 90° so stop knob springs into position (see Figure 122).

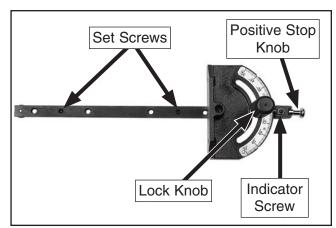


Figure 122. Set screws for adjusting miter bar in miter slot.

4. Place square evenly against face of miter gauge and blade, as shown in **Figure 123**.

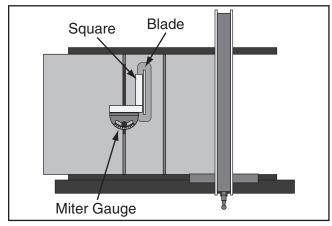


Figure 123. Checking 90° stop on miter gauge.

- —If square touches miter body and body of blade (not the teeth) evenly at same time, then it is square to blade and 90° stop is set correctly. No further adjustments are necessary.
- —If square *does not* touch miter body and blade body evenly at same time, then proceed to **Step 5**.
- Loosen button head cap screws on positive stop knob block (see Figure 124), adjust miter body until it is flush with square, then tighten screws.

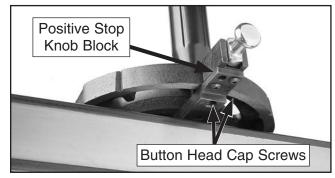


Figure 124. Screws for adjusting miter body.

6. Loosen indicator screw on top of miter bar, adjust pointer to 0°, then tighten screw.

Adjusting Miter Bar Tightness

The miter bar can be adjusted so it fits more tightly in the miter slot. To adjust the miter bar tightness, adjust the set screws shown in **Figure 122** as needed. Bar should slide with little resistance.



Belt Tension & Replacement

The drive belt stretches slightly as the saw is used. Most of the belt stretching will happen during the first 16 hours of use, but it may continue through continued use. If you notice that the belt is slipping, it will need to be tensioned. If the belt is cracked, frayed, or shows other signs of excessive wear, it will need to be replaced.

Tool Needed	Qty
Hex Wrench 6mm	1

Tensioning Belt

- 1. DISCONNECT MACHINE FROM POWER!
- Raise blade completely, then open the motor door.
- Loosen cap screw on motor shown in Figure 125, and pivot motor up and down to make sure that it is movable.



Figure 125. Location of cap screw for adjusting belt tension.

- **4.** Press down on motor with one hand to keep belt tension tight and tighten cap screw.
- 5. Press belt in center to check belt tension. The belt is correctly tensioned when there is approximately ½" deflection when it is pushed with moderate pressure, as shown in Figure 126.

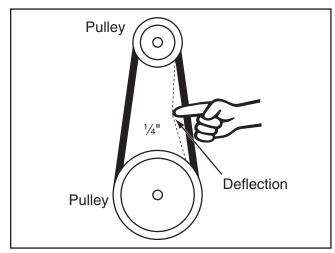


Figure 126. Checking belt tension.

- —If there is more than 1/4" deflection when belt is pushed with moderate pressure, loosen cap screw, push motor downward, then tighten cap screw.
- Close motor door.

Replacing Belt

- DISCONNECT MACHINE FROM POWER!
- Raise blade completely, then open motor door.
- Loosen cap screw that secures motor (see Figure 125) and lift motor fully to remove tension on belt. Tighten cap screw to hold motor in this position, then roll belt off of the arbor and motor pulleys.
- **4.** Install new belt onto pulleys, loosen cap screw, then lower motor.
- **5.** Press down on motor with one hand to keep belt tension tight and tighten cap screw.
- **6.** Follow **Step 5** in the **Tensioning Belt** subsection on this page to check V-belt tension.
- 7. Close motor door.



SECTION 9: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

▲WARNING Wiring Safety Instructions

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

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

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

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

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

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

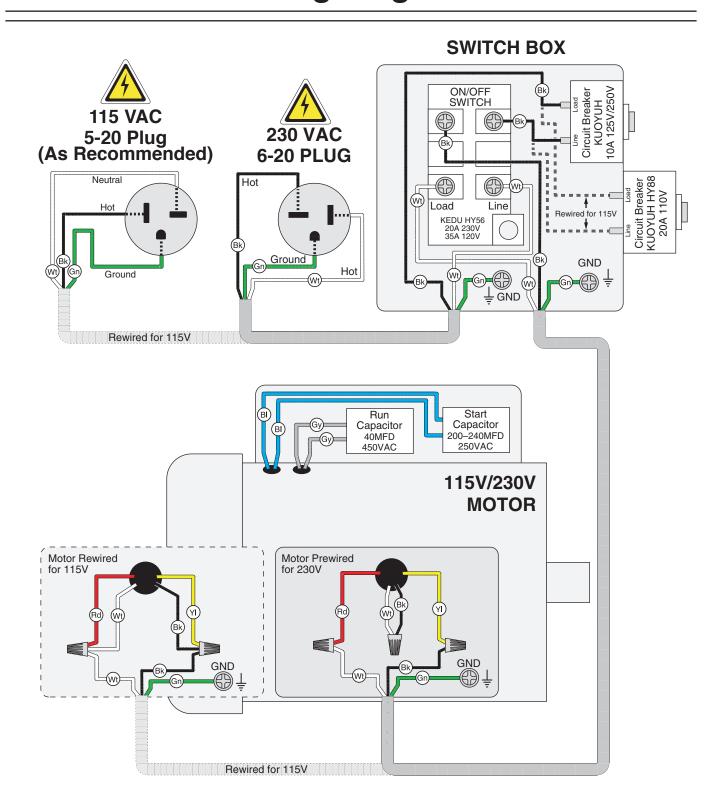
CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

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

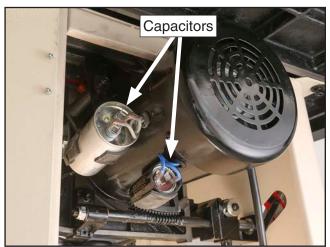
NOTICE COLOR KEY BLACK I **BLUE** YELLOW LIGHT The photos and diagrams BLUE included in this section are YELLOW WHITE : **BROWN GREEN** best viewed in color. You GREEN **GRAY PURPLE** can view these pages in TUR-QUOISE **PINK** color at www.grizzly.com. RED



Wiring Diagram



Electrical Components



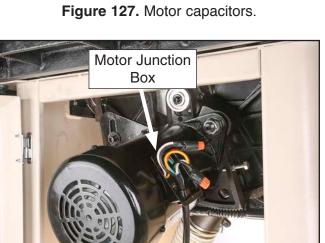


Figure 128. Motor junction box.

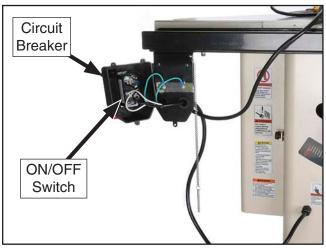
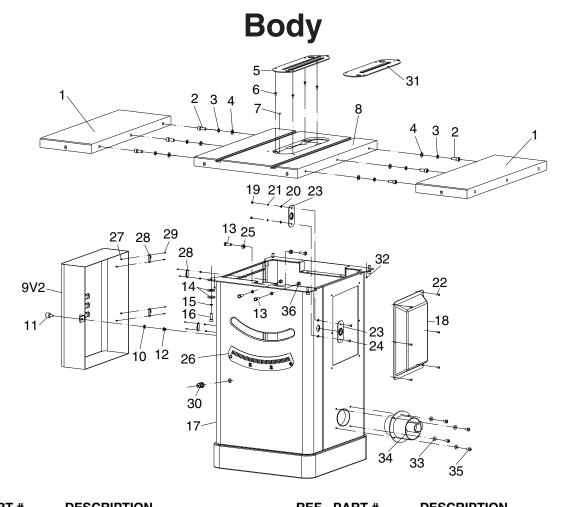


Figure 129. Switch box components.

SECTION 10: PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call **(800) 523-4777** or visit **www.grizzly.com/parts** to check for availability.



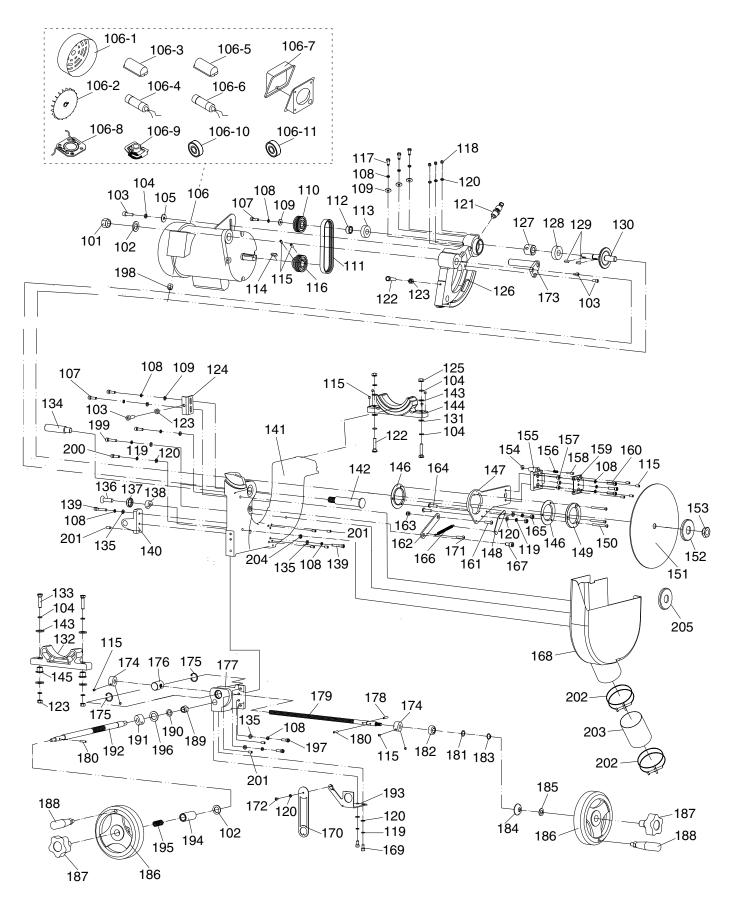
REF	PART#	DESCRIPTION
1	P0833P001	EXTENSION WING
2	P0833P002	CAP SCREW M10-1.5 X 30
3	P0833P003	LOCK WASHER 10MM
4	P0833P004	FLAT WASHER 10MM
5	P0833P005	TABLE INSERT (STANDARD)
6	P0833P006	FLAT HD CAP SCR M58 X 10
7	P0833P007	TABLE INSERT MAGNET
8	P0833P008	MAIN TABLE
9V2	P0833P009V2	MOTOR COVER V2.07.18
10	P0833P010	INT TOOTH WASHER 6MM
11	P0833P011	KNOB M6-1
12	P0833P012	RIVETED NUT M6-1 X 15
13	P0833P013	HEX BOLT M8-1.25 X 25
14	P0833P014	FLAT WASHER 8MM
15	P0833P015	LOCK WASHER 8MM
16	P0833P016	CAP SCREW M8-1.25 X 25
17	P0833P017	CABINET
18	P0833P018	ACCESS COVER

KEF	PARI#	DESCRIPTION
19	P0833P019	HEX NUT M58
20	P0833P020	FLAT WASHER 5MM
21	P0833P021	LOCK WASHER 5MM
22	P0833P022	BUTTON HD CAP SCR M58 X 12
23	P0833P023	LEADSCREW BRACKET
24	P0833P024	BUTTON HD CAP SCR M58 X 16
25	P0833P025	LOCK NUT M8-1.25
26	P0833P026	TILT SCALE
27	P0833P027	LOCK NUT M35
28	P0833P028	UPPER AND LOWER HINGE
29	P0833P029	FLAT HD CAP SCR M35 X 12
30	P0833P030	STRAIN RELIEF TYPE-3 M18-1.5
31	P0833P031	TABLE INSERT (DADO)
32	P0833P032	SET SCREW M58 X 8
33	P0833P033	FLAT WASHER 6MM
34	P0833P034	DUST PORT 4" X 1-1/2"
35	P0833P035	BUTTON HD CAP SCR M6-1 X 12
36	P0833P036	LOCK NUT M8-1.25





Trunnion



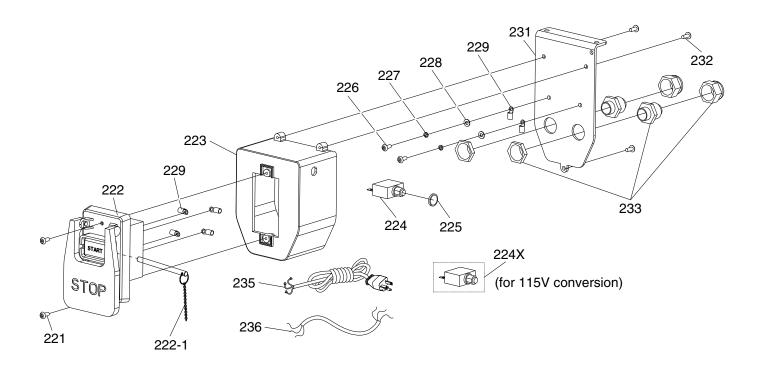
Trunnion Parts List

REF	PART #	DESCRIPTION
101	P0833P101	LOCK NUT M16-2
102	P0833P102	FLAT WASHER 16MM
103	P0833P103	CAP SCREW M8-1.25 X 20
104	P0833P104	LOCK WASHER 8MM
105	P0833P105	FLAT WASHER 8MM
106	P0833P106	MOTOR 2HP 110V/220V 1-PH
106-1	P0833P106-1	MOTOR FAN COVER
106-2	P0833P106-2	MOTOR FAN
106-3	P0833P106-3	START CAPACITOR COVER
106-4	P0833P106-4	S CAPACITOR 200-240M 250V 1-1/2 X 2-3/4
106-5	P0833P106-5	RUN CAPACITOR COVER
106-6	P0833P106-6	R CAPACITOR 40M 450V 2 X 4
106-7	P0833P106-7	MOTOR JUNCTION BOX
106-8	P0833P106-8	CONTACT PLATE
106-9	P0833P106-9	CENTRIFUGAL SWITCH
106-10	P0833P106-10	BALL BEARING 6203ZZ (FRONT)
106-11	P0833P106-11	BALL BEARING 6204ZZ (REAR)
107	P0833P107	CAP SCREW M6-1 X 16
108	P0833P108	LOCK WASHER 6MM
109	P0833P109	FLAT WASHER 6MM
110	P0833P110	ARBOR PULLEY
111	P0833P111	POLY V-BELT 150PJ6
112	P0833P112	BUSHING
113	P0833P113	BALL BEARING 6202-2RS
114	P0833P114	KEY 6 X 6 X 20
115	P0833P115	SET SCREW M6-1 X 8
116	P0833P116	MOTOR PULLEY
117	P0833P117	HEX BOLT M6-1 X 16
118	P0833P118	LOCK NUT M58
119	P0833P119	LOCK WASHER 5MM
120	P0833P120	FLAT WASHER 5MM
121	P0833P121	ARBOR LOCK
122	P0833P122	HEX BOLT M8-1.25 X 40
123	P0833P123	HEX NUT M8-1.25
124	P0833P124	HEIGHT LIMIT BLOCK
125	P0833P125	LOCK NUT M8-1.25
126	P0833P126	MOTOR MOUNT
127	P0833P127	ARBOR BUSHING
128	P0833P128	BALL BEARING 6203-2RS
129	P0833P129	KEY 5 X 5 X 15
130	P0833P130	ARBOR
131	P0833P131	FLAT WASHER 8MM
132	P0833P132	FRONT TRUNNION
133	P0833P133	HEX BOLT M8-1.25 X 45
134	P0833P134	LIMIT BLOCK
135	P0833P135	FLAT WASHER 6MM
136	P0833P136	FLAT HD CAP SCR M10-1.5 X 40
137	P0833P137	SPACER
138	P0833P138	SPACER (NYLON)
139	P0833P139	CAP SCREW M6-1 X 35
140	P0833P140	SHAFT BRACKET
141	P0833P141	MAIN TRUNNION
142	P0833P142	MOTOR SHAFT
143	P0833P143	FLAT WASHER 8MM
144	P0833P144	REAR TRUNNION
145	P0833P145	ADJUSTMENT SCREW
146	P0833P146	NYLON GASKET
147	P0833P147	SPREADER BRACKET
		-

REF	PART #	DESCRIPTION
148	P0833P148	SPRING BRACKET
149	P0833P149	FLANGE RING
150	P0833P150	FLAT HD CAP SCR M58 X 50
151	P0833P151	SAW BLADE 10" X 40T
152	P0833P152	ARBOR FLANGE
153	P0833P153	ARBOR NUT M16-2
154	P0833P154	KNURLED KNOB
155	P0833P155	SPREADER ADJUSTMENT BLOCK
156	P0833P156	COMPRESSION SPRING
157	P0833P157	SPACER
158	P0833P158	LOCKING PIN 6 X 26
159	P0833P159	SPREADER CLAMPING PLATE
160	P0833P160	CAP SCREW M6-1 X 25
161	P0833P161	BUTTON HD CAP SCR M6-1 X 20
162	P0833P162	CONNECTING PLATE
163	P0833P163	LOCK NUT M6-1
164	P0833P164	BUTTON HD CAP SCR M58 X 16
165	P0833P165	HEX NUT M58
166	P0833P166	EXTENSION SPRING
167	P0833P167	SHOULDER SCREW M6-1 X 16, 6 X 12
168	P0833P168	DUST COLLECTOR CASE
169	P0833P169	CAP SCREW M58 X 12
170	P0833P170	POINTER
171	P0833P171	BUTTON HD CAP SCR M58 X 12
172	P0833P172	BUTTON HD CAP SCR M47 X 8
173	P0833P173	MOTOR LOCATING SHAFT
174	P0833P174	STOP COLLAR
175	P0833P175	INT RETAINING RING 24MM
176	P0833P176	TILT LEADSCREW NUT
177	P0833P177	TILT LEADSCREW BASE
178	P0833P178	ROLL PIN 4 X 16
179	P0833P179	TILT LEADSCREW
180	P0833P180	ROLL PIN 4 X 20
181	P0833P181	FLAT WASHER 12MM
182	P0833P182	BEARING WASHER
183	P0833P183	EXT RETAINING RING 12MM
184	P0833P184	BEVELED BUSHING
185	P0833P185	FLAT WASHER 12MM
186	P0833P186	HANDWHEEL TYPE -7 160D X 11.5B-K X M10-1.5
187	P0833P187	HANDWHEEL LOCK KNOB M8-1.25 5-LOBE
188	P0833P188	HANDWHEEL HANDLE 90L, M10-1.5 X 12
189	P0833P189	LOCK NUT M12-1.75
190	P0833P190	FLAT WASHER 12MM
191	P0833P191	COLLAR
192	P0833P192	ELEVATION SHAFT
193	P0833P193	POINTER BASE
194	P0833P194	HANDWHEEL BUSHING
195	P0833P195	COMPRESSION SPRING
196	P0833P196	ELEVATION SHAFT SPACER
197	P0833P197	CAP SCREW M6-1 X 20
198	P0833P198	STRAIN RELIEF TYPE-1 3/8"
199	P0833P199	CAP SCREW M58 X 30
200	P0833P200	CAP SCREW M58 X 20
201	P0833P201	SET SCREW M6-1 X 20
202	P0833P202	HOSE CLAMP 3-1/4"
203	P0833P203	CLEAR HOSE 26" X 3"
204	P0833P204	HEX NUT M10-1.5 ARBOR FLANGE (DADO)
205	P0833P205	ANDON FLANGE (DADO)



Power Switch



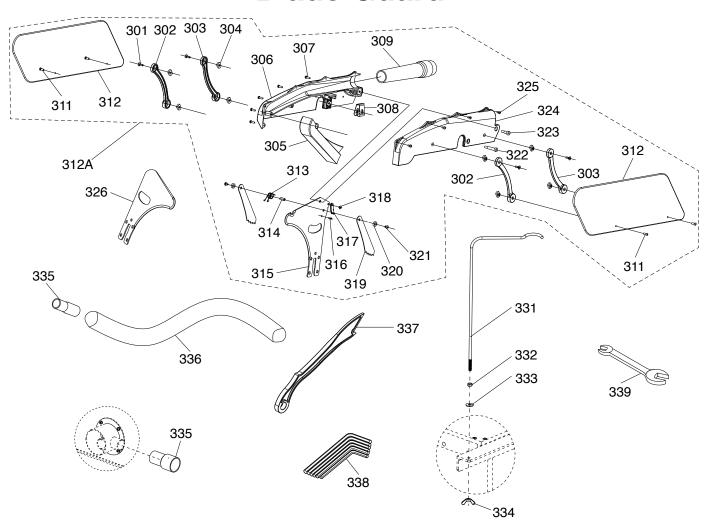
REF PART # DESCRIPTION

221	P0833P221	TAP SCREW M3.5 X 19
222	P0833P222	S/S SWITCH W/STOP PADDLE KEDU HY56
222-1	P0833P222-1	PADDLE SWITCH LOCKOUT PIN
223	P0833P223	SWITCH BOX
224	P0833P224	CIRCUIT BREAKER KUOYUH 88 10A 230V
224X	P0833P224X	CIRCUIT BREAKER KUOYUH 88 20A 115V
225	P0833P225	CIRCUIT BREAKER NUT M10-1.5
226	P0833P226	PHLP HD SCR M4- 7 X 8

REF PART # DESCRIPTION

	227	P0833P227	LOCK WASHER 4MM
	228	P0833P228	FLAT WASHER 4MM
	229	P0833P229	CLAMP-ON TERMINAL RING
ſ	231	P0833P231	SWITCH BRACKET
	232	P0833P232	TAP SCREW M3.5 X 10
	233	P0833P233	STRAIN RELIEF TYPE-3 M18-1.5
ſ	235	P0833P235	POWER CORD 14G 3W 72" 6-20P
	236	P0833P236	MOTOR CORD 14G 3W 32"

Blade Guard



NEF PANI# DESCRIPTION	REF	PART #	DESCRIPTION
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KEF	PARI#	DESCRIPTION
301	P0833P301	FLAT HD CAP SCR M47 X 10
302	P0833P302	GUARD SUPPORT (FRONT)
303	P0833P303	GUARD SUPPORT (REAR)
304	P0833P304	FLANGE NUT M47
305	P0833P305	DUST CHUTE
306	P0833P306	LEFT GUARD
307	P0833P307	TAP SCREW M3.5 X 16
308	P0833P308	SPRING CLAMP
309	P0833P309	BLADE GUARD DUST PORT
311	P0833P311	BUTTON HD CAP SCR M47 X 10
312	P0833P312	SIDE GUARD
312A	P0833P312A	COMPLETE BLADE GUARD ASSY
313	P0833P313	TORSION SPRING
314	P0833P314	PAWL SHAFT
315	P0833P315	SPREADER
316	P0833P316	ROLL PIN 4 X 16
317	P0833P317	PAWL RELEASE HOOK
318	P0833P318	RIVET 4 X 8

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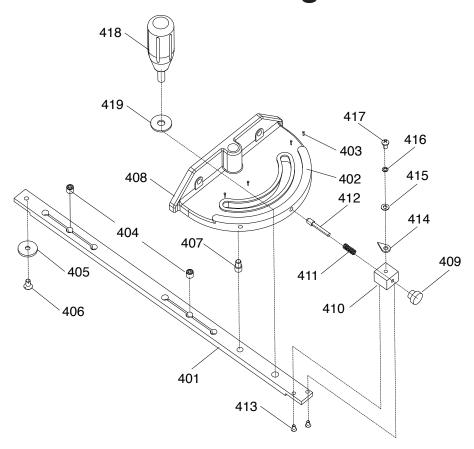
REF PART# **DESCRIPTION**

P0833P319	ANTI-KICKBACK PAWL
P0833P320	SPACER
P0833P321	BUTTON HD CAP SCR M47 X 6
P0833P322	SHOULDER SCREW M58 X 10, 11 X 35
P0833P323	SHOULDER SCREW M58 X 10, 11 X 20
P0833P324	RIGHT GUARD
P0833P325	TAP SCREW M3 X 10
P0833P326	RIVING KNIFE
P0833P331	HOSE SUPPORT ARM
P0833P332	HEX NUT M6-1
P0833P333	FLAT WASHER 6MM
P0833P334	WING NUT M6-1
P0833P335	HOSE CONNECTOR 1-1/2"
P0833P336	DUST HOSE 94" X 1-1/2"
P0833P337	PUSH STICK
P0833P338	HEX WRENCH SET 2.5-8MM 6-PC
P0833P339	WRENCH 13 X 27MM OPEN-ENDS
	P0833P320 P0833P321 P0833P322 P0833P323 P0833P324 P0833P325 P0833P326 P0833P331 P0833P332 P0833P333 P0833P334 P0833P335 P0833P335 P0833P336 P0833P336 P0833P337





Miter Guage



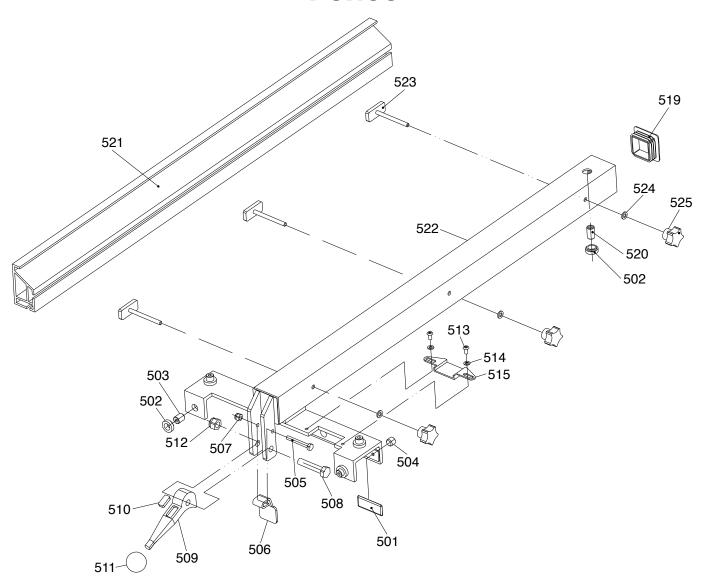
REF	PART #	DESCRIPTION
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401	P0833P401	GUIDE BAR
402	P0833P402	ANGLE SCALE
403	P0833P403	RIVET 2.5 X 8 BLIND, STEEL
404	P0833P404	SET SCREW M8-1.25 X 6
405	P0833P405	MITER RING
406	P0833P406	FLAT HD CAP SCR M58 X 8
407	P0833P407	MITER BODY PIVOT PIN
408	P0833P408	MITER GAUGE BODY
409	P0833P409	MITER STOP PIN KNOB
410	P0833P410	PIN BLOCK

REF PART # DESCRIPTION

411	P0833P411	COMPRESSION SPRING
412	P0833P412	MITER STOP PIN
413	P0833P413	BUTTON HD CAP SCR M47 X 10
414	P0833P414	MITER GAUGE POINTER
415	P0833P415	FLAT WASHER 4MM
416	P0833P416	LOCK WASHER 4MM
417	P0833P417	BUTTON HD CAP SCR M47 X 6
418	P0833P418	LOCKING HANDLE M8-1.25 X 24
419	P0833P419	FLAT WASHER 8MM

Fence



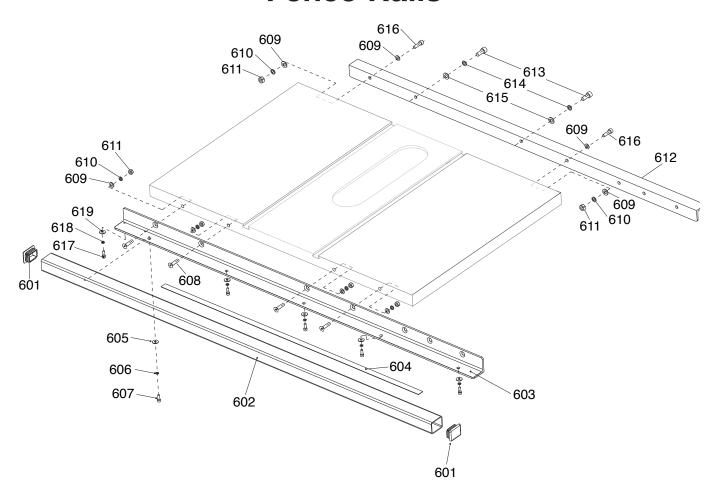
REF PART#	DESCRIPTION
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		DECOMM MON
501	P0833P501	GLIDE PAD
502	P0833P502	KNURLED NUT M12-1.75
503	P0833P503	SET SCREW M12-1.75 X 16 BRASS
504	P0833P504	SET SCREW M12-1.75 X 10
505	P0833P505	HEX BOLT M6-1 X 40
506	P0833P506	CAM LOCK PLATE
507	P0833P507	LOCK NUT M6-1
508	P0833P508	HEX BOLT M10-1.5 X 45
509	P0833P509	FENCE LOCK CAM LEVER
510	P0833P510	MAGNET
511	P0833P511	BALL KNOB M10-1.5

512	P0833P512	LOCK NUT M10-1.5
513	P0833P513	BUTTON HD CAP SCR M58 X 8
514	P0833P514	FLAT WASHER 5MM
515	P0833P515	FENCE SCALE WINDOW
519	P0833P519	FENCE BASE END CAP 50 X 50MM
520	P0833P520	SET SCREW M12-1.75 X 30
521	P0833P521	FENCE FACE
522	P0833P522	FENCE BASE
523	P0833P523	FENCE T-BOLT M6-1 X 30
524	P0833P524	FLAT WASHER 6MM
525	P0833P525	KNOB 5-LOBE M6-1 X 30



Fence Rails

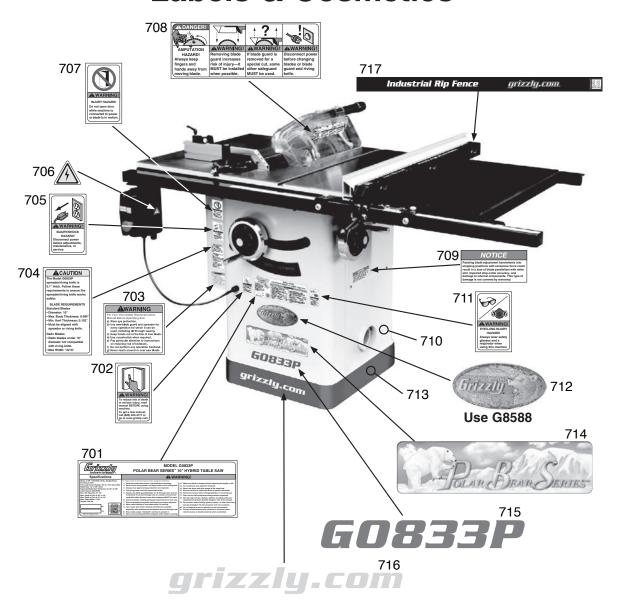


REF PA	ART#	DESCRIPTION
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601	P0833P601	GUIDE-TUBE END CAP 50 X 40MM
602	P0833P602	FENCE GUIDE TUBE
603	P0833P603	FRONT FENCE RAIL
604	P0833P604	FENCE SCALE LABEL
605	P0833P605	FLAT WASHER 6MM
606	P0833P606	LOCK WASHER 6MM
607	P0833P607	CAP SCREW M6-1 X 16
608	P0833P608	FLAT HD SCR M8-1.25 X 35
609	P0833P609	FLAT WASHER 8MM
610	P0833P610	LOCK WASHER 8MM

611	P0833P611	HEX NUT M8-1.25
612	P0833P612	REAR FENCE RAIL
613	P0833P613	CAP SCREW M10-1.5 X 25
614	P0833P614	LOCK WASHER 10MM
615	P0833P615	FLAT WASHER 10MM
616	P0833P616	CAP SCREW M8-1.25 X 35
617	P0833P617	CAP SCREW M58 X 14
618	P0833P618	LOCK WASHER 5MM
619	P0833P619	FLAT WASHER 5MM

Labels & Cosmetics



REF PART # DESCRIPTION

701	P0833P701	MACHINE ID LABEL
702	P0833P702	READ MANUAL LABEL
703	P0833P703	TABLE SAW WARNING LABEL
704	P0833P704	RIVING KNIFE CAUTION LABEL
705	P0833P705	DISCONNECT POWER LABEL
706	P0833P706	ELECTRICITY LABEL
707	P0833P707	DON'T OPEN DOOR WARNING LABEL
708	P0833P708	BLADE GUARD LABEL
709	P0833P709	HANDWHEELS NOTICE LABEL

BUY PARTS ONLINE AT GRIZZLY.COM!

Scan QR code to visit our Parts Store.

REF PART # DESCRIPTION

710	P0833P710	TOUCH-UP PAINT, POLAR BEAR WHITE
711	P0833P711	EYE/LUNG HAZARD LABEL
712	P0833P712	GRIZZLY NAMEPLATE G8588
713	P0833P713	GRIZZLY GREEN TAPE
714	P0833P714	POLAR BEAR LOGO LABEL
715	P0833P715	MODEL NUMBER LABEL
716	P0833P716	GRIZZLY.COM LABEL
717	P0833P717	FENCE LABEL

WARNING

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





CUT ALONG DOTTED LINE

Grizzia WARRANTY CARD

City	y	_ State	Zip
		_ Email	
			Serial #
		n a voluntary basis. It will be used fourse, all information is strictly con	r marketing purposes to help us develo
1.	How did you learn about us' Advertisement Card Deck	? Friend Website	Catalog Other:
2.	Which of the following maga	zines do you subscribe to?	
	Cabinetmaker & FDM Family Handyman Hand Loader Handy Home Shop Machinist Journal of Light Cont. Live Steam Model Airplane News Old House Journal Popular Mechanics	Popular Science Popular Woodworking Precision Shooter Projects in Metal RC Modeler Rifle Shop Notes Shotgun News Today's Homeowner Wood	 Wooden Boat Woodshop News Woodsmith Woodwork Woodworker West Woodworker's Journal Other:
3.	What is your annual househ \$20,000-\$29,000 \$50,000-\$59,000	old income?\$30,000-\$39,000\$60,000-\$69,000	\$40,000-\$49,000 \$70,000+
4.	What is your age group? 20-29 50-59	30-39 60-69	40-49 70+
5.	How long have you been a v		Years20+ Years
6.	How many of your machines	or tools are Grizzly?6-9	10+
7.	Do you think your machine r	epresents a good value?	YesNo
8.	Would you recommend Griz	zly Industrial to a friend?	YesNo
9.	Would you allow us to use y Note: We never use names	our name as a reference for Griza	zly customers in your area? YesNo
10.	Comments:		

Place Stamp Here



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

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FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

 Name______

 Street______

 City______ State_____ Zip_____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

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



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