MODEL T30945
7" BENCHTOP TILE SAW
OWNER'S MANUAL
(For models manufactured since 12/19)

#CS20849 PRINTED IN CHINA V1.02.20

⚠ WARNING!

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

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

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

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

⚠ WARNING!

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

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

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

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INTRODUCTION

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

⚠WARNING

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

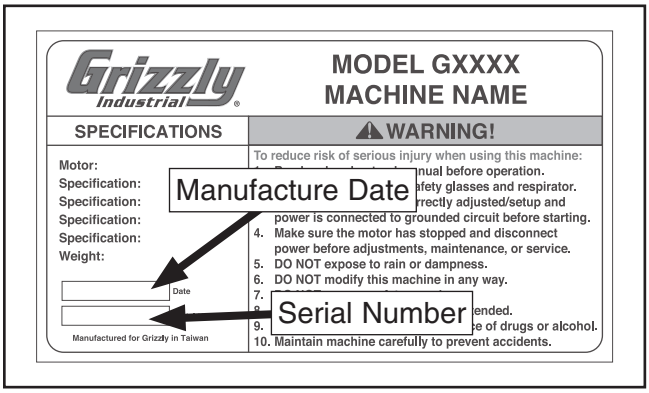
Manual Accuracy

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**.

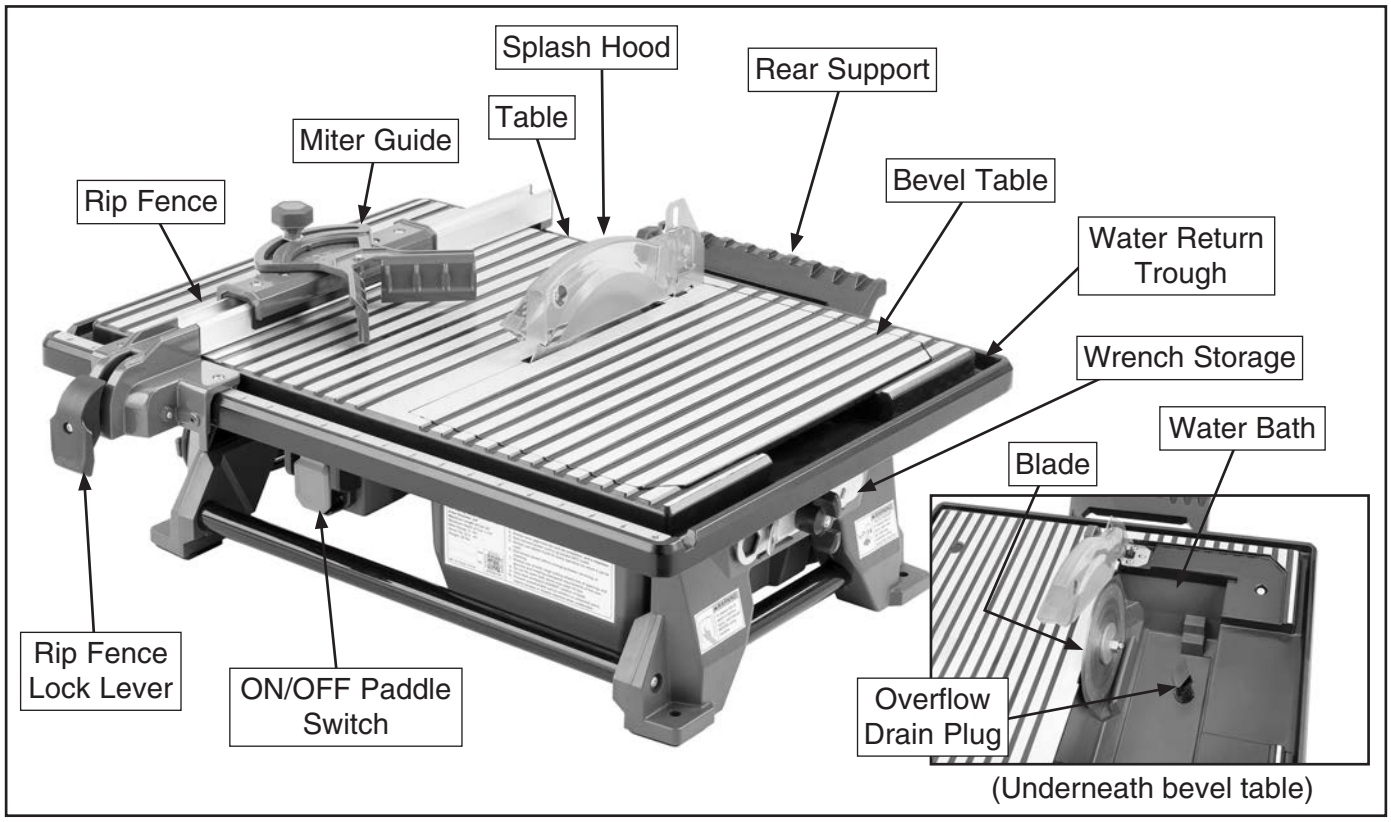
If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at **www.grizzly.com**.

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.



⚠WARNING

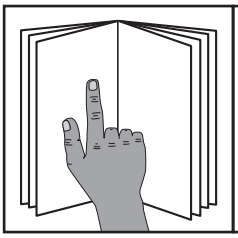
Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠CAUTION

For Your Own Safety Read Instruction Manual Before Operating Saw

a) Wear eye protection.
b) Use splash hood for every operation for which it can be used.
c) Disconnect saw before servicing, when changing blades, and cleaning.
d) Use tool only with smooth edge blades free of openings and grooves.
e) Replace damaged blades before operating.
f) Do not fill water bath above water fill line.

Controls & Components



⚠WARNING

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

Refer to the following figures and descriptions to become familiar with the basic controls and components of this machine. Understanding these items and how they work will help you understand the rest of the manual and minimize your risk of injury when operating this machine.

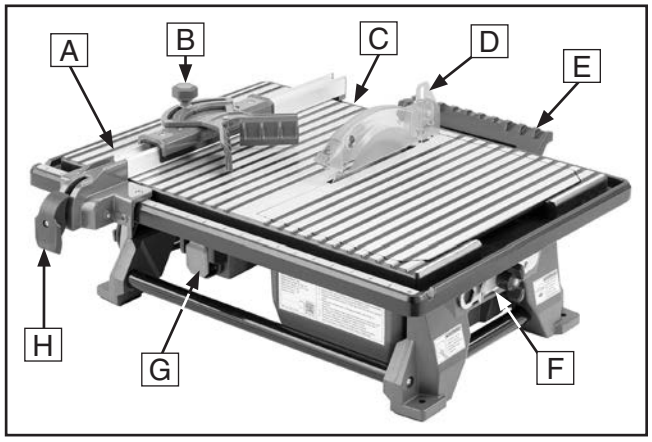


Figure 1. Tile saw components (front).

A. Rip Fence: Provides straight edge to hold workpieces against during cutting operations.

B. Miter Guide: Supports workpieces at precise angles for repeatable miter cuts.

C. Main Table: Supports workpiece during cutting operation.

D. Splash Hood: Protects user from rotating blade and helps contain overspray.

E. Rear Support: Provides ripping support for larger tiles up to 24".

F. Wrench Storage: Provides convenient storage for arbor and arbor nut wrench for easy blade replacement.

G. ON/OFF Paddle Switch: Turns motor ***ON*** and ***OFF***.

H. Rip Fence Lock: Secures rip fence in place along front rail.

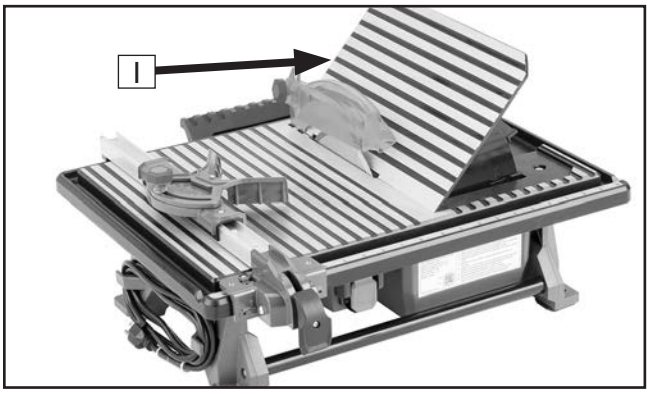


Figure 2. Bevel table in 45˚ position.

I. Bevel Table: Tilts to provide table support for bevel cuts. Stops at 22.5˚ and 45˚.

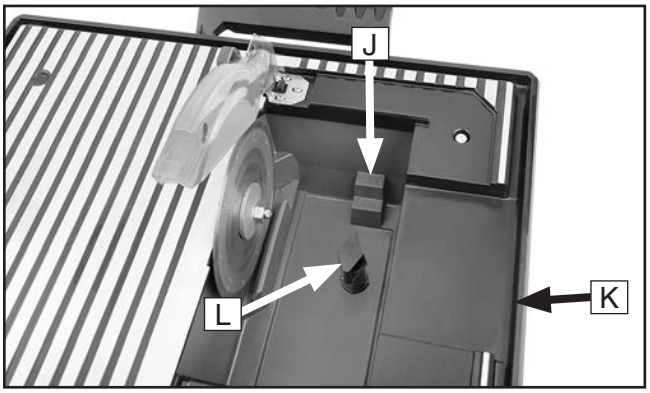


Figure 3. Tile saw components (inside).

J. Water Fill Lines: Displays minimum and maximum volume of water required to operate saw.

K. Water Return Trough: Returns excess water to water bath.

L. Overflow Drain Plug: Drains excess water and removes to drain water bath.

MACHINE DATA SHEET

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

MODEL T30945
7" BENCHTOP TILE SAW

Product Dimensions:

Weight	28 lbs.
Width (side-to-side) x Depth (front-to-back) x Height	23 x 24 x 13-1/2 in.
Footprint (Length x Width)	20 x 13 in.

Shipping Dimensions:

Type	Cardboard Box
Content	Machine
Weight	32 lbs.
Length x Width x Height	26 x 19 x 9 in.

Electrical:

Power Requirement	120V, Single-Phase, 60 Hz
Full-Load Current Rating	6.5A
Minimum Circuit Size	15A
Connection Type	Cord & Plug
Power Cord Included	Yes
Power Cord Length	6 ft.
Power Cord Gauge	18 AWG
Plug Included	Yes
Included Plug Type	5-15
Switch Type	Paddle Switch

Motor:

Main

Horsepower	1 HP
Phase	Single-Phase
Amps	6.5A
Speed	3450 RPM
Type	TEFC
Power Transfer	Direct
Bearings	Shielded & Permanently Sealed

Main Specifications:

Operation Information

Blade Diameter	7 in.
Arbor Size	5/8 in.
Table Tilt Stops	22.5, 45 deg.
Maximum Supported Length of Cut	24 in.
Maximum Depth of Cut	1-1/4 in.
Diagonal Capacity	12 in.
Required Blade Body Thickness	0.05 in.

Fence Information

Fence Type	Extruded Aluminum w/Attached Miter Guide
Fence Length	17-1/2 in.
Fence Width	1-1/8 in.
Fence Height	1 in.

Construction Information

Table	Aluminum
Rear Support	Aluminum
Rip Fence	Aluminum
Miter Guide	Aluminum
Splash Hood	Plastic
Paint Type/Finish	Enamel

Other Related Info

Water Bath Capacity	2.3L

Other Specifications:

Country of Origin	Taiwan
Warranty	1 Year
Serial Number Location	ID Label
ISO 9001 Factory	Yes

Features:

0-90 Deg. Miter Guide
7" Diamond Blade
Ribbed Table w/Water Return Trough
10" Infeed/Outfeed Scale
Tilt Table w/22.5 & 45 Deg. Support Stops
Adjustable Splash Hood
2.3L Water Bath

Accessories:

7" Diamond Blade
8mm Arbor Wrench
19mm Closed-End Wrench

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.

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

⚠WARNING **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 **Alerts the user to useful information about proper operation of the machine to avoid machine damage.**

Safety Instructions for Machinery

⚠WARNING

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.

⚠WARNING

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to 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 Tile Saws

⚠WARNING

Serious injury or death can occur from getting fingers, hair, or clothing entangled in rotating or moving parts. Workpieces can be ejected by saw, striking operator or bystanders. Long-term respiratory damage can occur from breathing dust created while cutting. To minimize risk of injury, anyone operating this machine MUST completely heed hazards and warnings below.

ELECTRICAL HAZARDS. Electrocution may occur due to water entering electrical connections. Always connect this machine to a GFCI circuit breaker to reduce chances of electrocution and form a "drip loop" so water will drip off cord before reaching receptacle. Never touch any electrical connection while hands are wet.

HAND & BODY POSITIONING. Keep hands away from 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, or under splash hood when blade is spinning. Turn saw ***OFF*** and allow blade to completely stop before removing cut-off pieces near blade or trapped between blade and miter guide or table.

SPLASH HOOD. The splash hood protects operator from rotating blade and water displaced by blade. Make sure splash hood is installed, adjusted correctly, and used for all cuts. Make sure splash hood mounting bracket is aligned and positioned correctly. Promptly repair or replace splash hood and bracket if damaged.

SIDE GRINDING. Never use side of blade to grind tile. Doing so may cause tile to break or explode, resulting in flying debris.

SMALL/NARROW WORKPIECES. Holding small workpieces with fingers increases risk of workpiece and hands slipping and moving into blade. Always support/feed small or narrow workpieces with miter guide, push stick, push blocks, jig, vise, or some type of clamping fixture.

FENCE. Make sure fence remains properly adjusted and parallel with blade. Always lock fence before using. Always lock miter guide when in use.

DRY CUTTING. Cutting without water can produce harmful airborne dust that can lead to eye injury or respiratory illness. Reduce risk of these hazards by ensuring water reservoir is filled to minimum fill line during operations. Wear approved eye and respiratory protection when using saw.

CHANGING BLADES. Accidental startup while changing blades can result in serious injury. To reduce risk of accidental blade contact, always disconnect power before changing blades. Always check blade before operations and never use damaged blade. Only use continuous rim wet blades with this saw. Use of other blades could result in flying debris or damage to machine.

FEEDING WORKPIECE. Feeding workpiece incorrectly increases risk of chipping and operator injury. Always allow blade to reach full speed before cutting. Always feed workpiece from front of saw, making sure workpiece is flat against table, fence, or guide. Feed cuts through to completion. Never start saw with workpiece touching blade or pull workpiece from behind blade. Never move workpiece sideways or perform a "free-hand" operation. Always wait for blade to come to a complete stop before removing workpiece. Do not force blade through workpiece as this can cause chipping, flying debris, and damage to machine. Reduce cutting force if you hear any strain on motor.

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.

⚠WARNING

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 120V .... 6.5 Amps

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

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

⚠WARNING

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.

120V Circuit Requirements

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

Nominal Voltage 110V, 115V, 120V
Cycle ..... 60 Hz
Phase ..... Single-Phase
Power Supply Circuit ..... 15 Amps

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

⚠CAUTION

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

Note: *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.*

Grounding & Plug 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.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

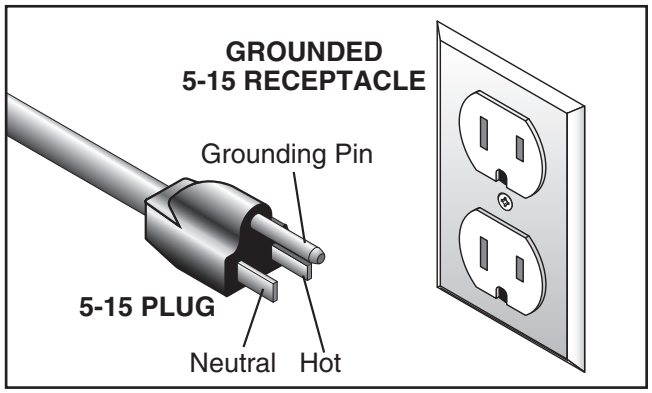
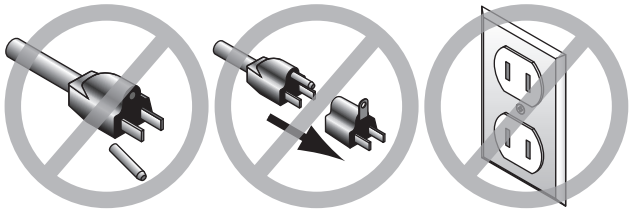


Figure 4. Typical 5-15 plug and receptacle.

⚠CAUTION



SHOCK HAZARD!

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

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 Size .....16 AWG
Maximum Length (Shorter is Better).....50 ft.

SECTION 3: SETUP

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.*

Needed for Setup

The following items are needed, but not included, for the setup/assembly of this machine.

Description	Qty
• Safety Glasses	1
• Phillips Screwdriver #2	1
• Water	2.3L

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.

Box 1 (Figure 5)	Qty
A. Tile Saw	1
B. Rear Support	1
C. Miter Guide	1
D. Splash Hood Assembly	1
E. Rip Fence	1
F. Blade 7"	1
G. Overflow Drain Plug	1
H. Closed-End Wrench 19mm	1
I. Arbor Wrench 8mm	1

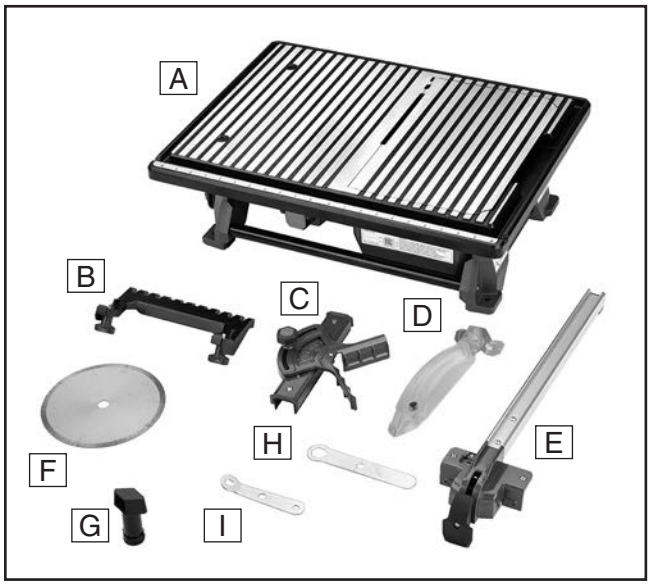


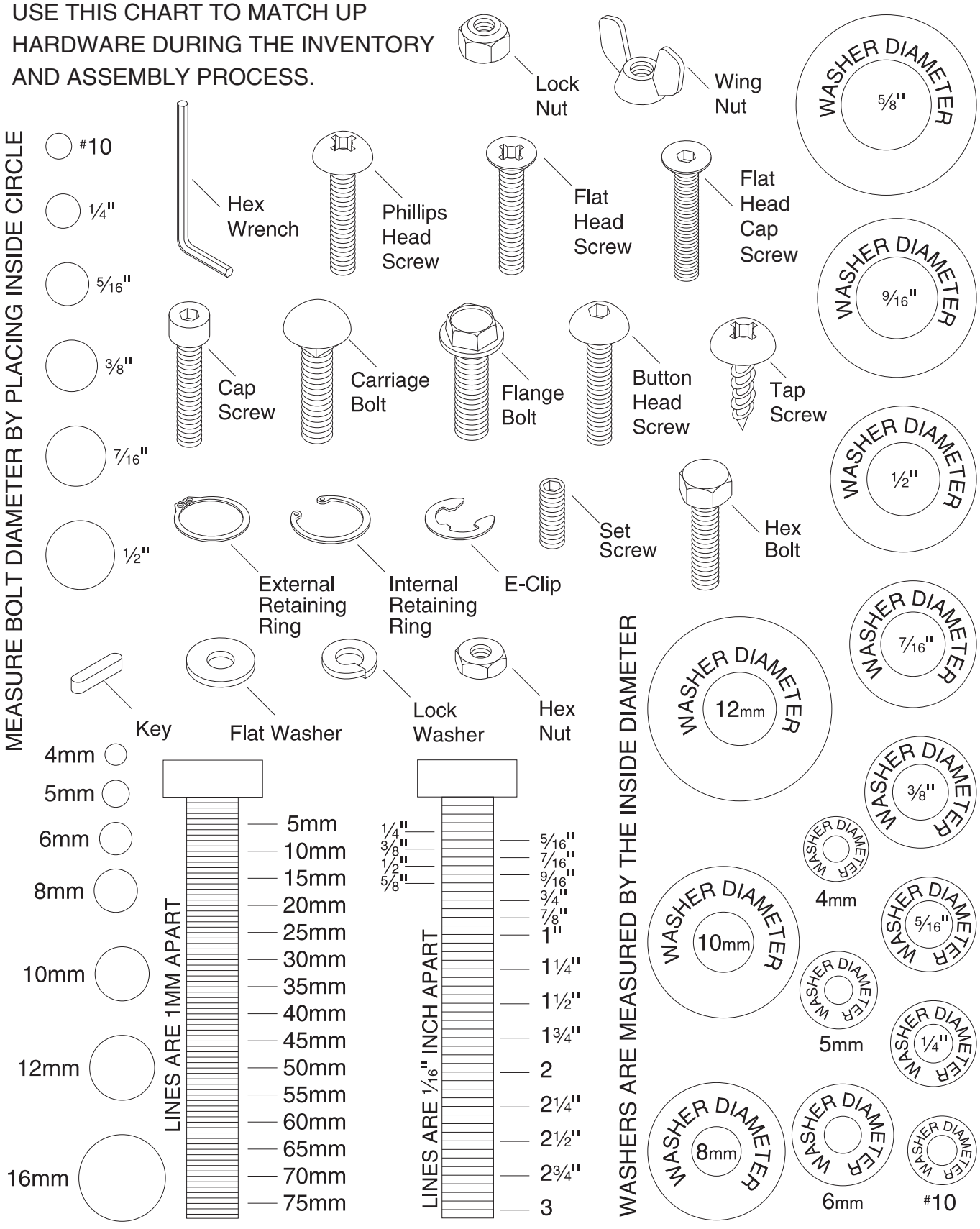
Figure 5. T30945 loose parts inventory.

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.

Hardware Recognition Chart

USE THIS CHART TO MATCH UP HARDWARE DURING THE INVENTORY AND ASSEMBLY PROCESS.



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).

⚠WARNING

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.

To assemble machine:

1. Attach rear support to back of saw with (2) pre-installed wing knob bolts (see **Figure 6**).

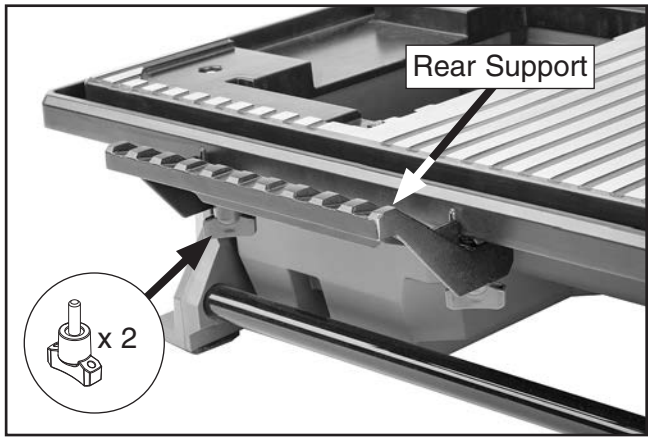


Figure 6. Rear support installed.

2. Lift and remove bevel table.

3. Install blade as instructed in **Removing & Installing Blade** on **Page 24**.

4. Remove (3) pre-installed flange screws shown in **Figure 7**.

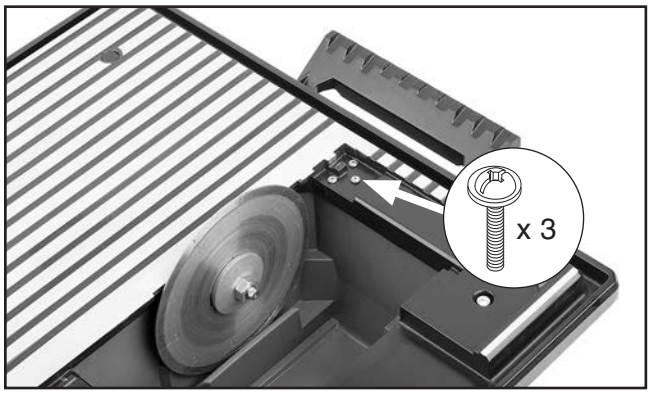


Figure 7. Splash hood flange screws location.

5. Attach splash hood assembly to table with flange screws so blade guard rests over blade (see **Figure 8**).

6. Loosen splash hood lock knob (see **Figure 8**) and adjust hood until it is aligned with but does not contact blade, then tighten to secure.

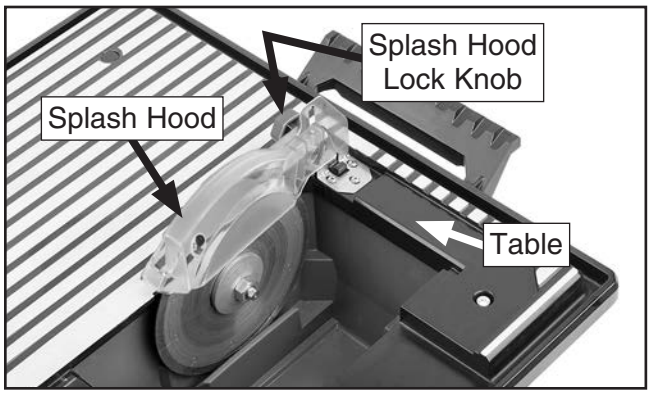


Figure 8. Splash hood attached to table.

7. Insert overflow drain plug into hole at bottom of water bath and push firmly to secure (see **Figure 9**).

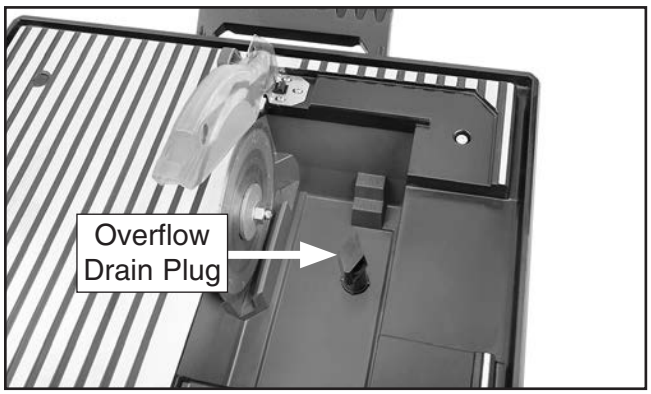


Figure 9. Overflow drain plug installed.

8. Install bevel table.

9. Place rip fence on table to left of blade so indicator lines up with table scale (see **Figure 10**), then secure by pushing lock lever down.

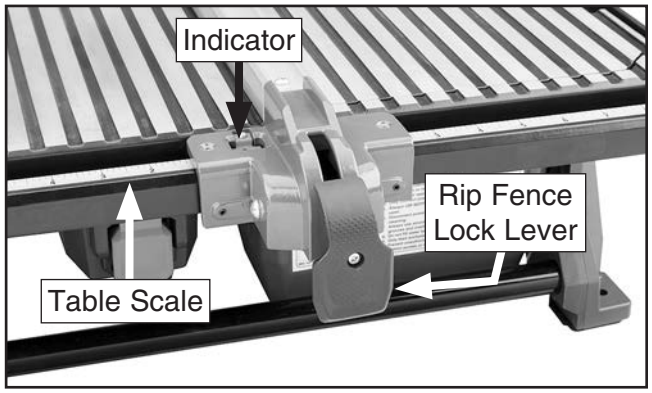


Figure 10. Rip fence attached to table.

10. Push miter guide onto rip fence with miter angle facing blade (see **Figure 11**).

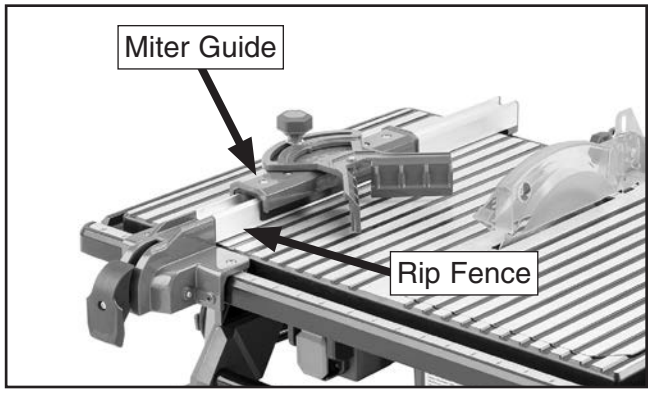


Figure 11. Miter guide attached to rip fence.

Site Considerations

Workbench Load

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

Placement Location

Consider anticipated workpiece sizes and additional space needed for auxiliary stands, work tables, or other machinery when establishing a location for this machine in the shop. Below is the minimum amount of space needed for the machine.

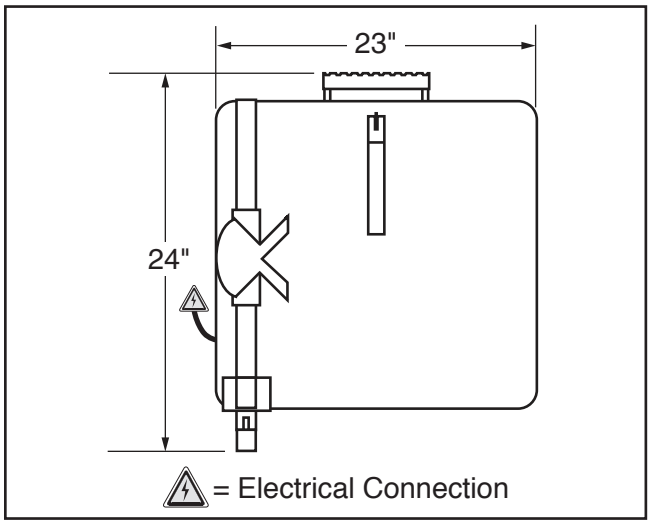
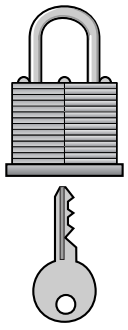


Figure 12. Minimum working clearances.



⚠CAUTION

Children and visitors may be seriously injured if unsupervised around this machine. Lock entrances to the shop or disable start switch or power connection to prevent unsupervised use.

Bench Mounting

Number of Mounting Holes 4
Dia. of Mounting Hardware Needed ..... 5/16"

The base of this machine has mounting holes that allow it to be fastened to a workbench or other mounting surface to prevent it from moving during operation and causing accidental injury or damage.

The strongest mounting option is a "Through Mount" (see example below) where holes are drilled all the way through the workbench—and hex bolts, washers, and hex nuts are used to secure the machine in place.

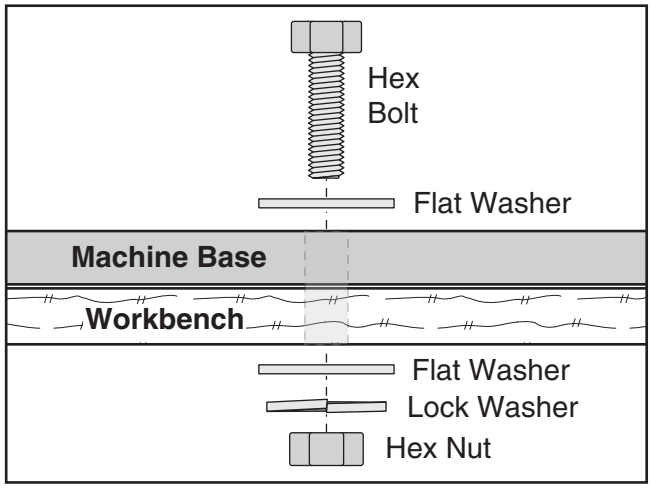


Figure 13. "Through Mount" setup.

Another option is a "direct mount" (see example below) where the machine is secured directly to the workbench with lag screws and washers.

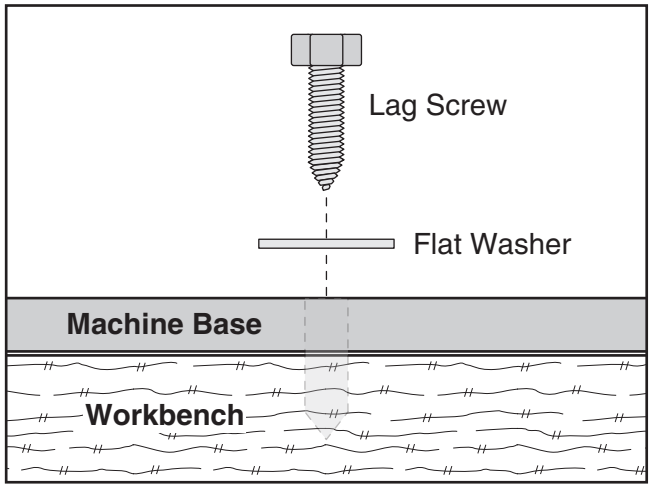


Figure 14. "Direct Mount" setup.

Power Connection

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

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

Connecting Power

When connecting the plug to an outlet, ensure the lowest point of the cord loop is lower than the outlet the plug is connected to. This helps to ensure water will "drip" from the cord and not get into the power receptacle.

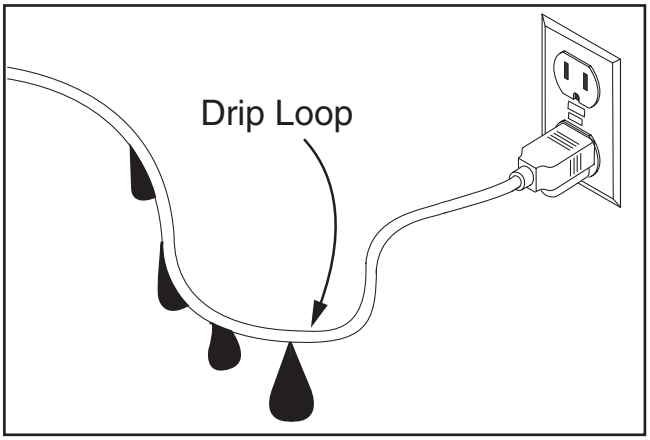


Figure 15. Connecting to power with a drip loop.

Disconnecting Power

Turn the machine ***OFF***. Grasp the plug and pull it completely out of the receptacle. When disconnecting the plug from the outlet, ensure the plug, receptacle, and your hands are dry.

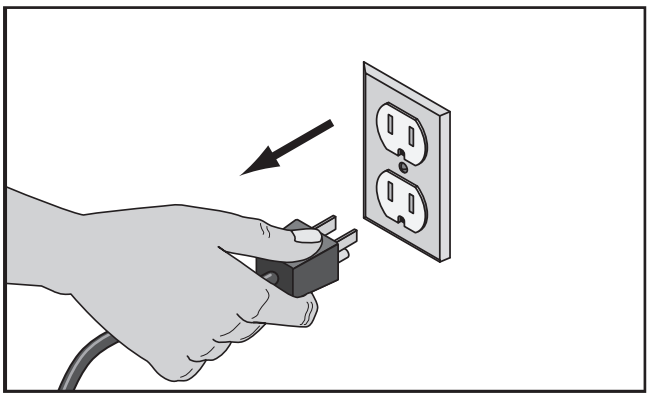


Figure 16. Disconnecting power.

Lifting & Moving

The Model T30945 is light enough for one person to lift and move a short distance.

To lift and move machine:

1. DISCONNECT MACHINE FROM POWER!

2. Secure rip fence position with rip fence lock lever (see **Figure 17**).

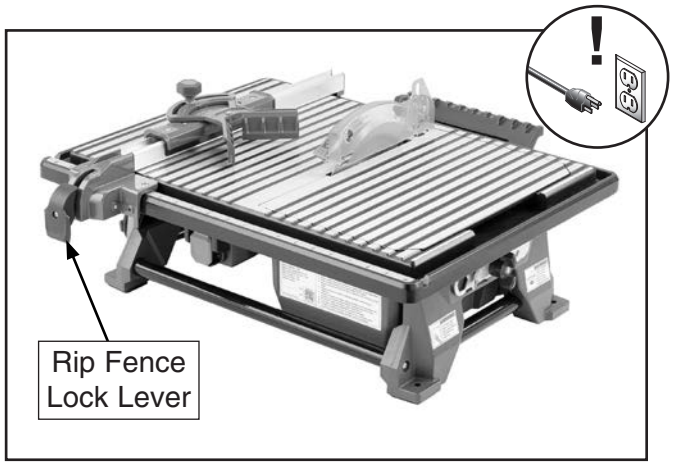


Figure 17. Rip fence lock location.

3. Lift machine by table edges and move to prepared location.

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.

⚠WARNING

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:

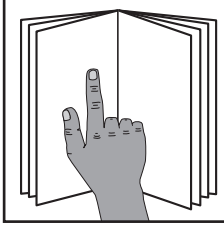
1. Clear all setup tools away from machine.

2. Connect machine to power supply.

3. Turn machine ***ON*** by pulling switch paddle up, verify motor operation, and then turn machine ***OFF*** by pushing switch paddle down.

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

SECTION 4: OPERATIONS



⚠WARNING

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

⚠WARNING

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.

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.

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

1. Fills tank with water past minimum fill line.

2. Puts on safety glasses, respirator, hearing protection, and any other required protective equipment.

3. Places tile on table firmly against fence or miter guide, or uses some other guiding fixture to guide tile while using bevel table.

4. Adjusts splash hood to height of tile.

5. Connects machine to power.

6. Turns tile saw ***ON***.

7. Applying light pressure, begins cut.

8. Slowly and carefully pushes tile through blade.

9. Turns tile saw ***OFF*** when cutting operation is complete.

Disabling & Locking Switch

The switch can be disabled and locked by inserting a padlock through the ON/OFF paddle switch, as shown. Locking the switch in this manner can prevent unauthorized operation of the machine, which is especially important if the machine is not stored inside an access-restricted building.

IMPORTANT: Locking the switch with a padlock only restricts its function. It is not a substitute for disconnecting power from the machine when adjusting or servicing.

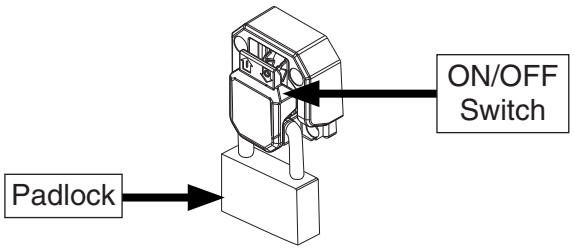


Figure 18. Switch disabled by a padlock.

⚠WARNING

Children or untrained people can be seriously injured by this machine. This risk increases with unsupervised operation. To help prevent unsupervised operation, disable and lock the switch before leaving machine unattended! Place key in a well-hidden or secure location.

NOTICE

The padlock shaft diameter is important to the disabling function of the switch. With any padlock used to lock the switch, test the switch after installation to ensure that it is properly disabled.

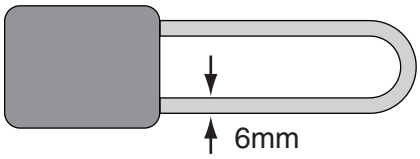


Figure 19. Maximum lock shaft requirements.

Cutting Tips

To ensure the best possible results from this saw, use the following tips.

- Move tile slowly through the cut to reduce chipping.
- Ensure blade is consistently wet at point of cut.
- If blade becomes dry, stop cutting.
- If motor sounds as if it is slowing or struggling, stop or reduce cutting speed.
- Slow down and ensure tile is still well supported as you near end of the cut.
- Replace water in bath frequently.
- Clean, dress blade with a dressing stone, or replace the blade when abrasive portion is worn away or glazed.

Changing Water

Never cut tile dry. The water bath reduces dust, heat buildup on the blade, and prevents tile breakage. Replace bath with fresh water whenever it becomes discolored, or you notice debris on blade during operations.

Waste water must be disposed of in accordance to local regulations and laws.

To change water:

1. DISCONNECT MACHINE FROM POWER!

2. Position saw over gallon bucket to catch water as it drains.

3. Remove bevel table and drain water from bath by pulling overflow drain plug.

4. Rinse tank, re-install drain plug, and replace with fresh water before connecting to power and resuming operations.

Making Rip Cuts

To trim a tile parallel to the existing edge, use the rip fence to guide the tile through the cut.

To make a rip cut:

1. DISCONNECT MACHINE FROM POWER!
2. Remove miter guide from rip fence.
3. Unlock rip fence by lifting rip fence lock lever, adjust to desired width on scale, and push lock lever down to secure (see **Figure 20**).

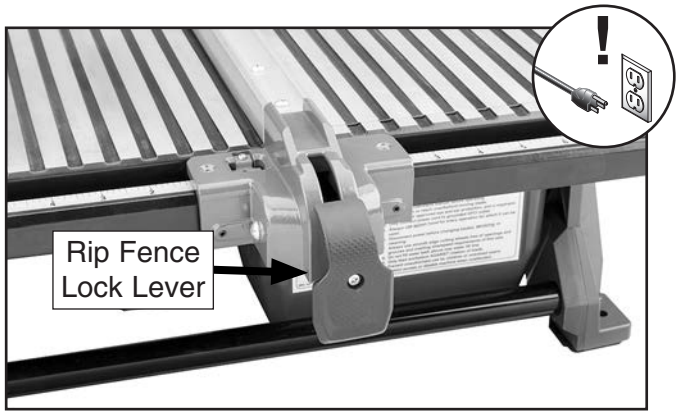


Figure 20. Rip fence lock lever location.

4. Position tile against rip fence at front of saw.
5. Loosen splash hood lock knob and adjust hood to height of tile (see **Figure 21**). Hood should be as close to tile as possible without touching.

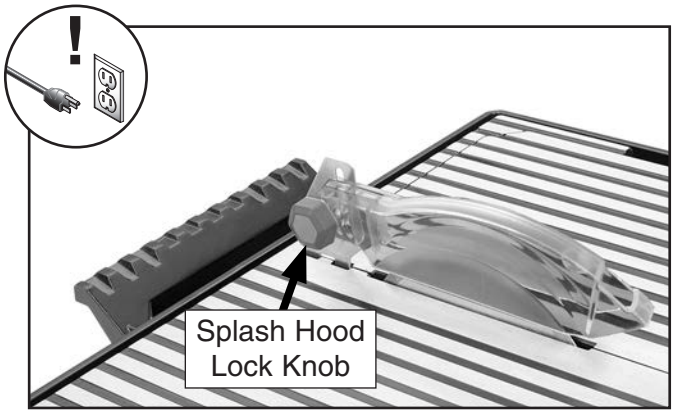


Figure 21. Splash hood lock knob location.

6. Connect machine to power and turn ***ON***.
7. Ensure blade is wet, then push tile through cut (see **Figure 22**).

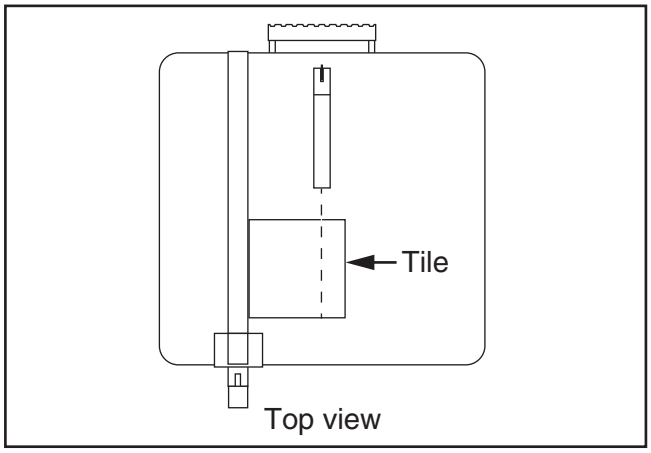


Figure 22. Tile ready for rip cut.

Making Miter Cuts

The included miter guide is used to make repeatable angled cuts. The guide travels along the rip fence to ensure the tile is pushed evenly throughout the cut.

To make a miter cut:

1. DISCONNECT MACHINE FROM POWER!
2. Loosen miter guide lock knob, adjust to desired miter angle, and tighten to secure (see **Figure 23**).

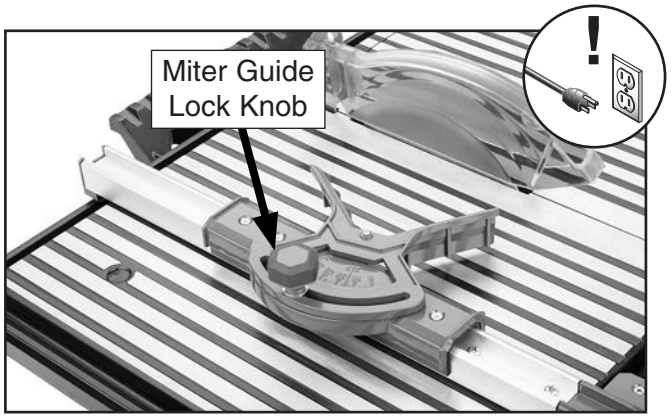


Figure 23. Miter guide lock knob location.

3. Unlock rip fence by lifting rip fence lock lever, adjust to desired cut width on scale, and push lock lever down to secure (see **Figure 24**).

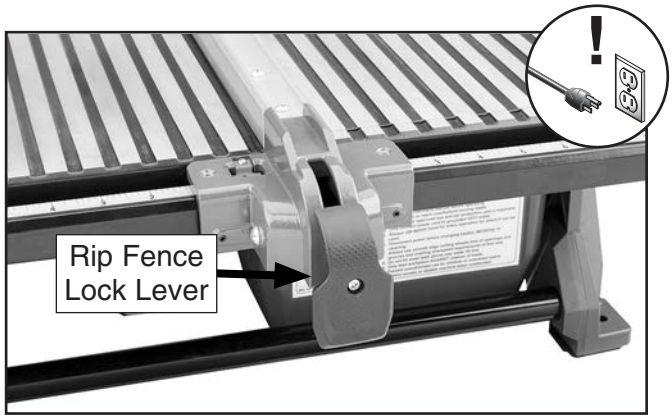


Figure 24. Rip fence lock lever location.

4. Position tile flush against miter guide at front of saw.

5. Loosen splash hood lock knob and adjust hood to height of tile (see **Figure 25**). Hood should be as close to tile as possible without touching.

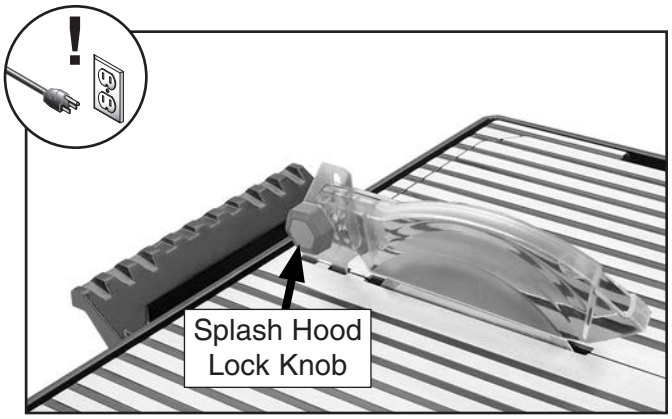


Figure 25. Splash hood lock knob location.

6. Connect machine to power and turn ***ON***.

7. Ensure blade is wet, then push tile through cut (see **Figure 26**).

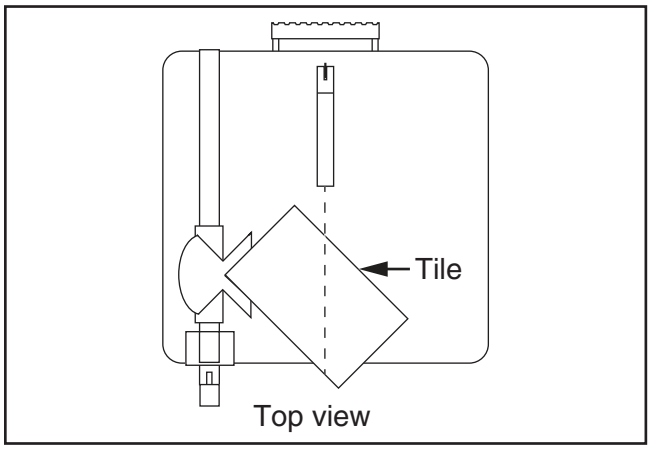


Figure 26. Tile ready for miter cut.

Making Bevel Cuts

The bevel table allows for bevel cuts when adjusted up at a tilt. The two support legs have stops at 22.5˚ and 45˚ for easy adjustment to common bevel cuts.

To make a bevel cut:

1. DISCONNECT MACHINE FROM POWER!

2. Unlock and remove rip fence and attached miter guide from saw table.

3. Tilt bevel table up and adjust insert table legs to desired angle stop (see **Figure 27**).

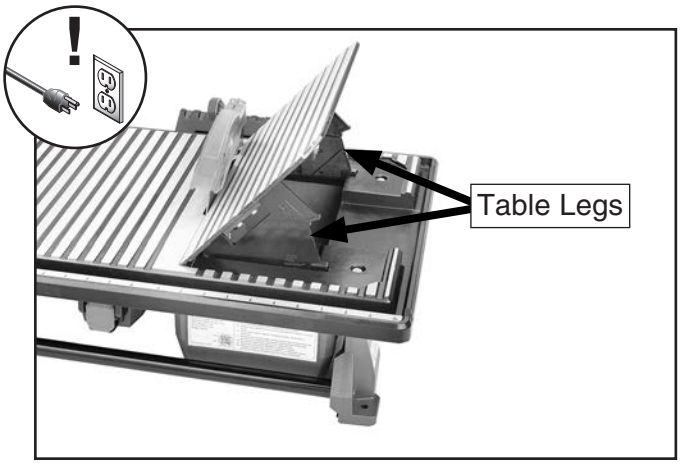


Figure 27. Bevel table set to 45˚.

4. Position tile against tilted table at front of saw.

5. Loosen splash hood lock knob and adjust hood to height of tile (see **Figure 28**). Hood should be as close to tile as possible without touching.

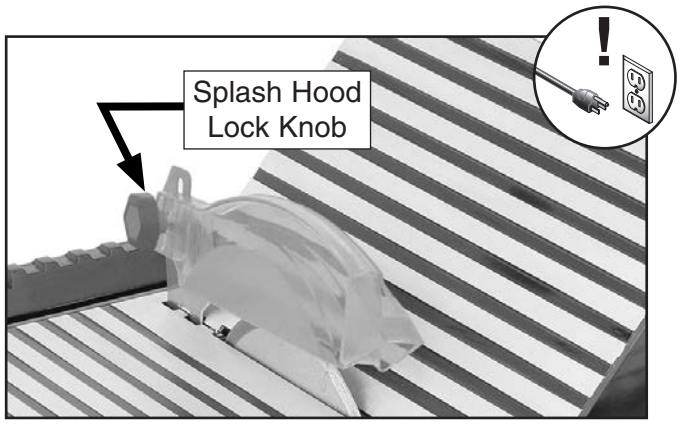


Figure 28. Splash hood lock knob location.

6. Connect machine to power and turn ***ON***.

7. Ensure blade is wet, then push tile through cut with a push stick or some other type of workpiece support (see **Figure 29**).

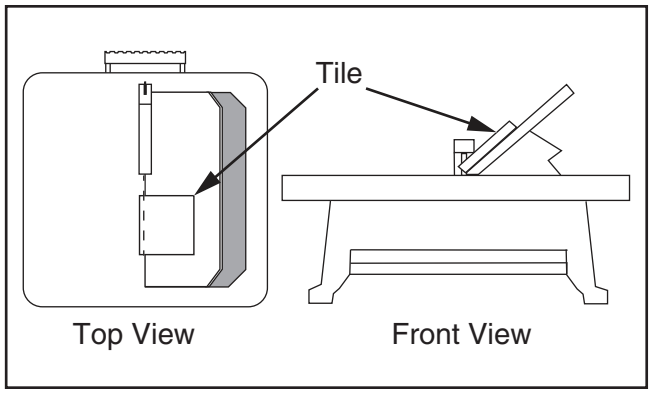


Figure 29. Tile ready for bevel cut.

Making L-Cuts

For corners and other tough-to-fit places, you may need to make an L-cut, or make two separate cuts that do not extend the full length of the tile, as shown in **Figure 30**.

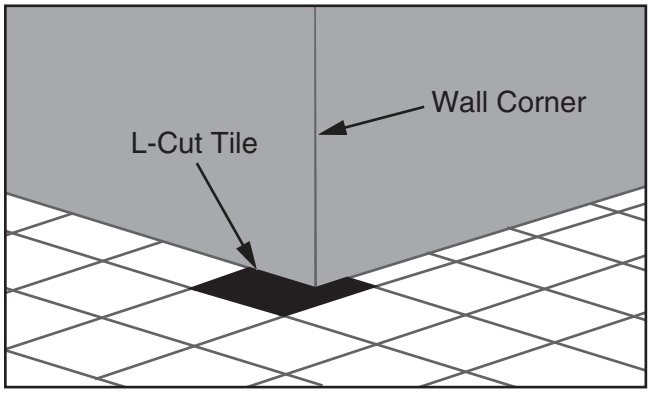


Figure 30. Example of an L-cut.

To make an L-cut:

1. DISCONNECT MACHINE FROM POWER!

2. Mark bottom of tile with area to be cut.

3. If making an angled cut, loosen miter guide lock knob, adjust to desired miter angle, and tighten to secure (see **Figure 31**). If rip cutting, remove miter guide.

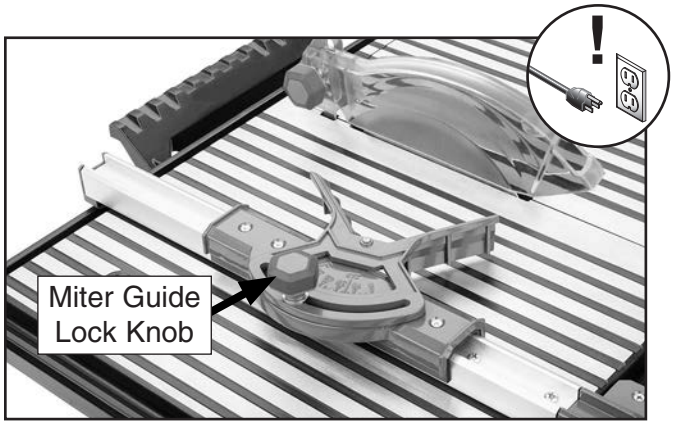


Figure 31. Miter guide lock knob location.

4. Unlock rip fence by lifting rip fence lock lever, adjust to first cut width on scale, and push lock lever down to secure (see **Figure 32**).

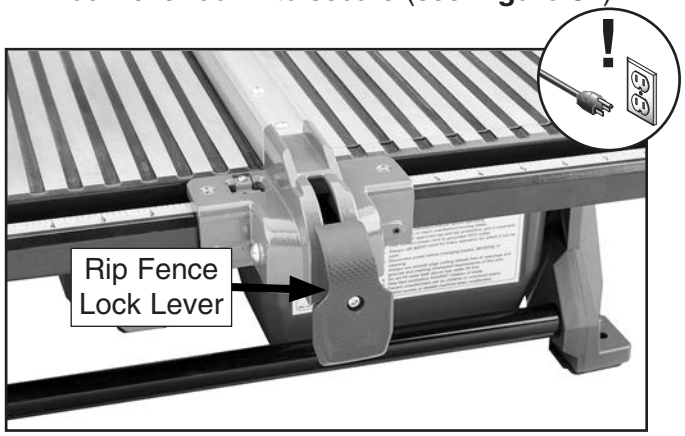


Figure 32. Rip fence locked for first cut.

5. Position tile against rip fence at front of saw.

6. Loosen splash hood lock knob and adjust hood to height of tile (see **Figure 33**). Hood should be as close to tile as possible without touching.

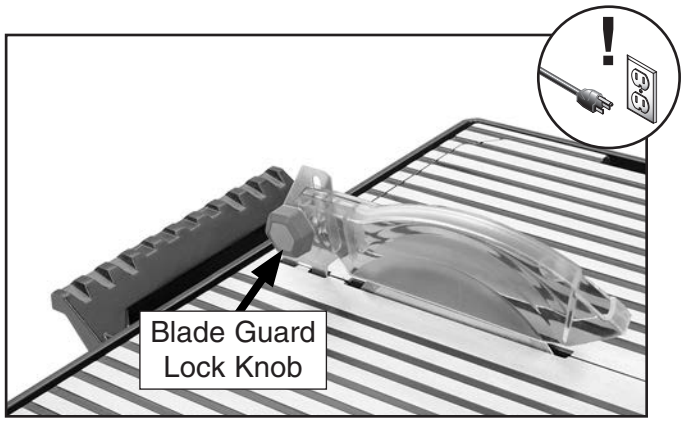


Figure 33. Splash hood lock knob location.

7. Connect machine to power and turn ***ON***.

8. Ensure blade is wet, then push tile through cut until you contact second line drawn in **Step 2** (see **Figure 34**).

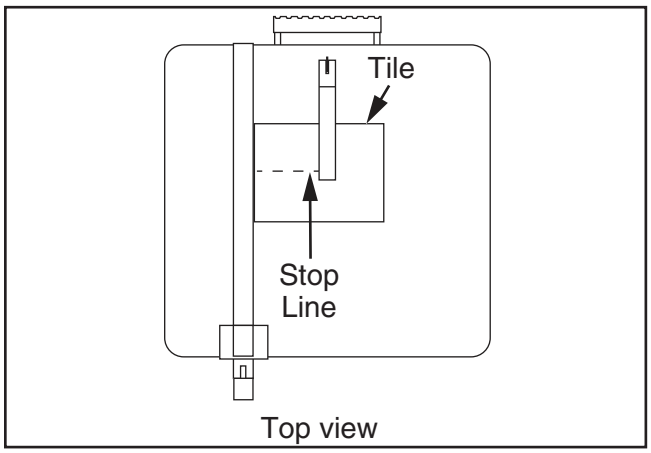


Figure 34. First cut complete.

9. Without removing tile, turn saw ***OFF***.

10. Wait for blade to stop spinning, then remove tile.

11. Adjust rip fence for width of second cut and lock to secure.

12. Turn saw ***ON*** and make second cut, cutting until contacting first cut (see **Figure 35**). When contacted, cut-off piece should separate.

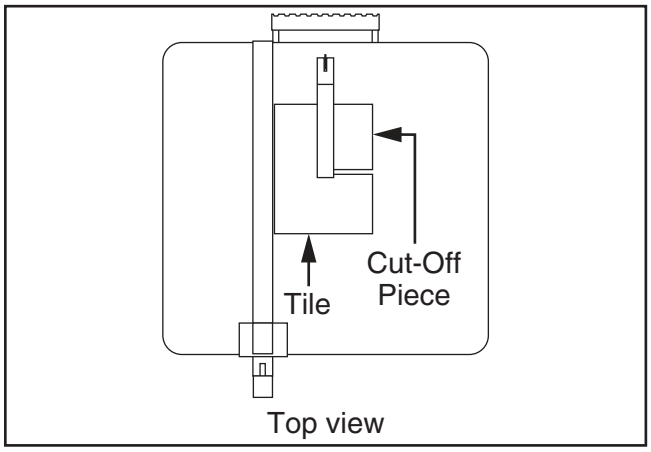


Figure 35. Second cut complete.

13. Without removing tile, turn saw ***OFF***.

14. Wait for blade to stop spinning, then remove tile.

Removing & Installing Blade

The Model T30945 uses abrasive continuous-rim blades. This type of blade does not cut and wear like typical "toothed" blades, instead they cut and grind simultaneously, making them perfect for ceramics. To maintain the optimal cutting capability of your tile saw, the blade should be changed when the abrasive portion of it has worn away or becomes glazed over and dressing is not an option.

Items Needed	Qty
Replacement Blade (**#PT30945084**)	1
Bucket 1-Gallon	1
Open-End Wrench 19mm	1
Arbor Wrench 8mm	1

Removing Blade

1. DISCONNECT MACHINE FROM POWER!

2. Position saw over bucket to catch water as it drains.

3. Remove bevel table and drain water from tray by pulling overflow drain plug.

4. Loosen splash hood lock knob, lift hood fully, and tighten lock knob to secure (see **Figure 36**).

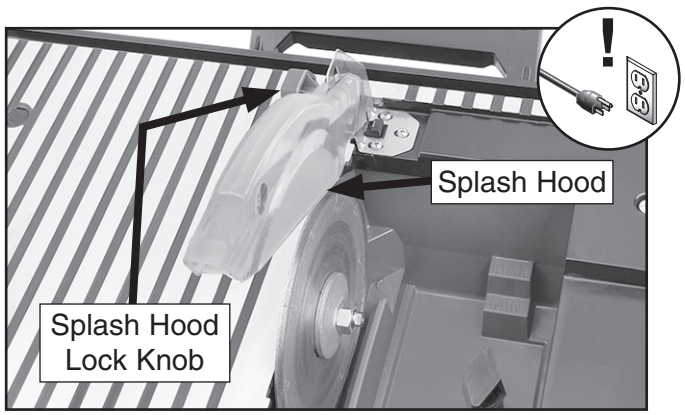


Figure 36. Splash hood in up position.

5. Use arbor wrench to secure arbor then remove nut with open-end wrench (see **Figure 37**).

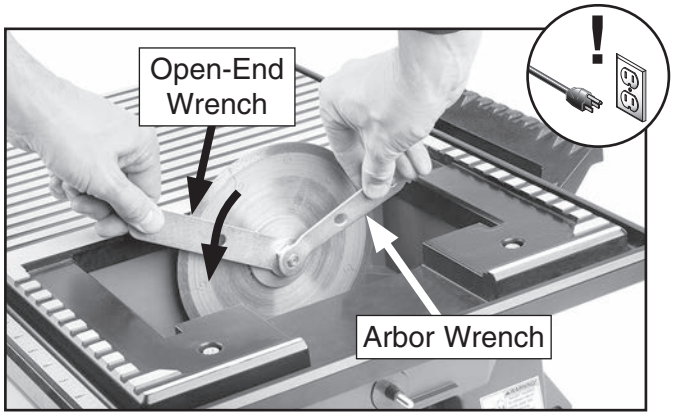


Figure 37. Loosening arbor nut.

6. Remove outer flange and blade from arbor (see **Figure 38**).

Installing Blade

1. Place blade on arbor flush against inner flange, being sure blade arrows point toward front of saw (see **Figure 38**).

2. Place outer flange on arbor and turn it until it rests flush against blade (see **Figure 38**). Blade should spin freely without side-to-side movement on arbor.

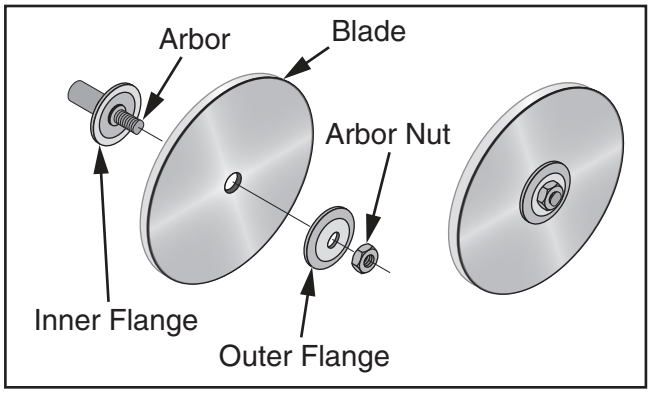


Figure 38. Correct order of blade installation.

3. Secure inner flange, blade, and outer flange on arbor with arbor nut.

4. Replace overflow drain plug and bevel table.

5. Fill bath with water before resuming operations.

SECTION 5: ACCESSORIES

⚠WARNING

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.

G5726—4-Pc. Combination Square 12"
This four-piece Combination Square has cast iron square, center heads, and 12" blade with graduations down to 64ths. Square head features spirit level and hardened scriber. Includes a direct reading double protractor head. Comes in a protective plastic case.

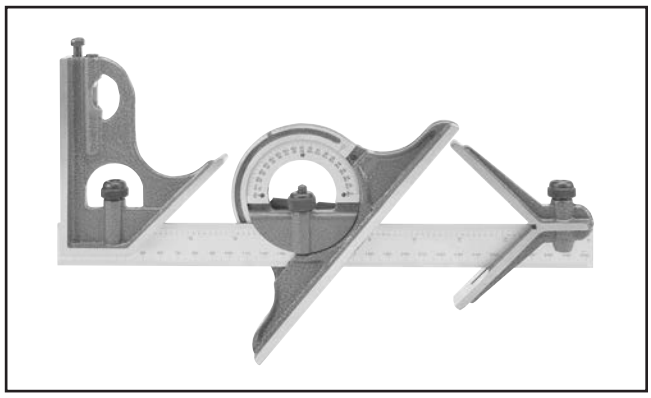


Figure 39. G5726 4-Pc. Combination Square 12".

T10456—Heavy-Duty Anti-Fatigue Mat 3' x 5'
This Heavy-Duty Anti-Fatigue Mat features beveled edges and no-slip tread for safety and comfort. Open-hole design allows liquid to drain through, so it's perfect for wet or oily conditions. Measures 3' wide x 5' long x ⅜" thick.

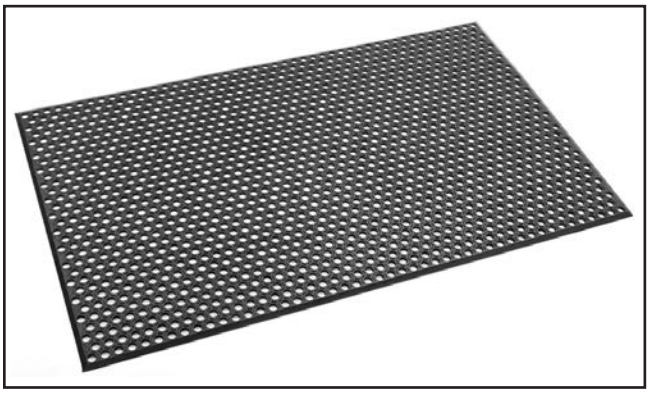


Figure 40. T10456 Anti-Fatigue Mat.

G8184—12-Pc. Plumbing/Threading Kit
A dozen industrial quality plumbing and pipe threading tools ensure that your next plumbing job will go without a hitch. In addition to a pair of rugged adjustable wrenches and a heavy-duty pipe and tubing cutter, this complete kit includes a reversible ratcheting die handle and dies for ¼", ⅜", ½", ¾", 1" and 1¼" pipe. All are housed in a high-impact plastic carrying case.

Figure 41. G8184 12-Pc. Plumbing/Threading Kit.

H4978—Deluxe Earmuffs - 27dB
H4979—Twin Cup Hearing Protector - 29dB
T20446—Ear Plugs 200 Pair - 31dB
Protect your hearing before it's too late. Especially important if you or employees operate for hours at a time.

Figure 42. Hearing protection assortment.

Basic Eye Protection

T20501—Face Shield Crown Protector 4"
T20502—Face Shield Crown Protector 7"
T20503—Face Shield Window
T20451—"Kirova" Clear Safety Glasses
T20452—"Kirova" Anti-Reflective S. Glasses
T20456—DAKURA Safety Glasses

Figure 43. Assortment of basic eye protection.

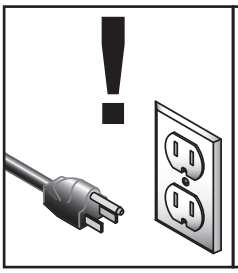
G5562—SLIPIT® 1 Qt. Gel
G5563—SLIPIT® 12 Oz. Spray
G2871—Boeshield® T-9 12 Oz. Spray
G2870—Boeshield® T-9 4 Oz. Spray
H3788—G96® Gun Treatment 12 Oz. Spray
H3789—G96® Gun Treatment 4.5 Oz. Spray

Figure 44. Recommended products for protecting unpainted cast-iron and steel.

T30955—Stand for Model T30945

Figure 45. Optional stand for Model T30945.

SECTION 6: MAINTENANCE



⚠WARNING

To reduce risk of shock or accidental startup, always disconnect machine from power before adjustments, maintenance, or service.

Schedule

For optimum performance from this machine, this maintenance schedule must be strictly followed.

Ongoing

To maintain a low risk of injury and proper machine operation, if you ever observe any of the items below, shut down the machine immediately and fix the problem before continuing operations:

- Loose mounting bolts.
- Damaged blade.
- Worn or damaged wires.
- Any other unsafe condition.

Weekly Maintenance

- Replace bath with fresh water.
- Clean table, rip fence, and miter guide.
- Check wear on blade and dress or replace as necessary.

Monthly Check

- Thoroughly clean water bath.

Cleaning & Protecting

Cleaning the Model T30945 is relatively easy. Wipe off tile dust with a wet cloth. If dust has built up in the bath or splash hood, use a mild soap and warm water to remove it.

Protect the unpainted portions of the table by wiping it clean after every use—this ensures moisture from operations does not remain on bare metal surfaces.

Lubrication

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

Dressing Blade

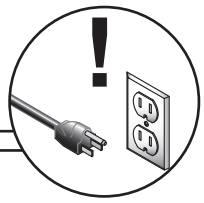
The abrasive blade can dull over time but cannot be sharpened like a normal saw blade. The abrasive material of the blade can become covered by adhesive material, dulling the blade prematurely. Dressing the blade can re-expose the abrasive and effectively "sharpens" the blade.

To dress the blade, slowly cut into a dressing stone, as you would a tile, until the entire band of abrasive passes through the stone. Repeat as necessary.

SECTION 7: 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



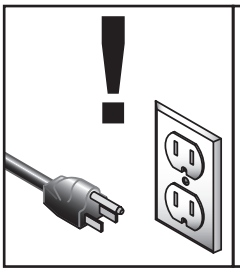
Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does not start, or power supply breaker immediately trips after startup.	1. GFCI tripped. 2. Incorrect power supply voltage or circuit size. 3. Power supply circuit breaker tripped or fuse blown. 4. Motor overheated. 5. Blade seized in workpiece. 6. ON/OFF paddle switch at fault. 7. Wiring broken, disconnected, or corroded. 8. Motor at fault.	1. Unplug and reset GFCI. 2. Ensure correct power supply voltage and circuit size. 3. Ensure circuit is sized correctly and free of shorts. Reset circuit breaker or replace fuse. 4. Clean motor, let cool, and reduce workload. 5. Unplug machine and free blade from workpiece. 6. Replace switch. 7. Fix broken wires or disconnected/corroded connections. 8. Test/repair/replace.
Machine stalls or is underpowered.	1. Excessive feed rate/pressure. 2. Blade dull or installed backwards. 3. Insufficient water level in bath. 4. Improper size extension cord used. 5. Run capacitor at fault. 6. Motor overheated. 7. Motor or motor bearings at fault.	1. Reduce feed rate/pressure against workpiece. 2. Dress blade (**Page 27**) or remove and install correctly (**Page 24**). 3. Fill water bath to maximum fill line. 4. Use larger gauge or shorter extension cord. 5. Test/repair/replace. 6. Clean motor, let cool, and reduce workload. 7. Test/repair/replace.
Machine has vibration or noisy operation.	1. Blade damaged or warped. 2. Blade, motor, or other part loose. 3. Incorrectly mounted to workbench or stand feet not adjusted properly. 4. Motor bearings at fault.	1. Replace blade (**Page 24**). 2. Tighten loose hardware or replace if missing. 3. Adjust feet, shim, or tighten mounting hardware. 4. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.

Operations

Symptom	Possible Cause	Possible Solution
Kickback occurs.	1. Rip fence not parallel with blade. Feeding tile without fence/guide. 2. Splash hood mounting bracket not correctly aligned with blade. 3. Blade warped/damaged/dull. 4. Letting go of tile before it is past blade. Tile not held firmly against table and fence/guide.	1. Adjust fence parallel with blade (**Page 30**). Install and use fence/guide. 2. Adjust bracket into alignment with blade (**Page 30**). 3. Sharpen/dress blade with dressing stone (**Page 27**), or replace blade (**Page 24**). 4. Move tile completely past blade before releasing. Hold tile firmly against table and fence; use push stick if necessary.
Machine makes inaccurate cuts.	1. Build-up on blade. 2. Fence not parallel with blade.	1. Sharpen/dress blade with dressing stone (**Page 27**), or replace blade (**Page 24**). 2. Adjust fence parallel with blade (**Page 30**).
Tile chipping along entire edge of cut.	1. Excessive feed pressure or cutting speed. 2. Overly dirty water or lack of water for blade. 3. Type/quality of tile used is highly prone to chipping. 4. Dull blade. 5. Blade warped or has excessive wobble. 6. Blade type not suitable for type of tile being cut.	1. Reduce feed pressure and cut slower. 2. Ensure water is clean and tank is full. 3. Cut tile upside down. Apply waterproof tape over cutting path when cuts cannot be made upside down. Add a few drops of dish soap to water to increase lubricity at cuts. 4. Sharpen/dress blade with dressing stone (**Page 27**), or replace blade (**Page 24**). 5. Replace blade (**Page 24**). 6. Use a different blade more suited for workpiece material. Use a blade stiffener.
Tile chipping only at one end of cut.	1. Tile not fed parallel with blade.	1. Ensure fence is parallel with blade, or ensure miter guide pressure is consistently to one side or the other on fence.
Rip fence does not securely lock to table.	1. Rip fence cam is loose.	1. Tighten cam (**Page 31**).
Rip fence does not move smoothly.	1. Rip fence mounted incorrectly. 2. Rip fence set screws need adjustment. 3. Rail dirty or sticky.	1. Remount rip fence. 2. Adjust set screws (**Page 31**). 3. Clean and wax rail.
Tile moves away from fence when ripping.	1. Improper feeding technique. 2. Fence not parallel with blade.	1. Learn/use proper feeding technique. 2. Adjust fence parallel with blade (**Page 30**).

Squaring Fence to Blade



⚠WARNING

To reduce risk of shock or accidental startup, always disconnect machine from power before adjustments, maintenance, or service.

The following procedure aligns the rip fence parallel to the blade. Once the fence is adjusted, the bracket holding the blade to the table must also be aligned.

Items Needed	**Qty**
Phillips Screwdriver #2	1

To square fence to blade:

1. DISCONNECT MACHINE FROM POWER!

2. Loosen splash hood lock knob, lift hood fully, and tighten lock knob to secure (see **Figure 46**).

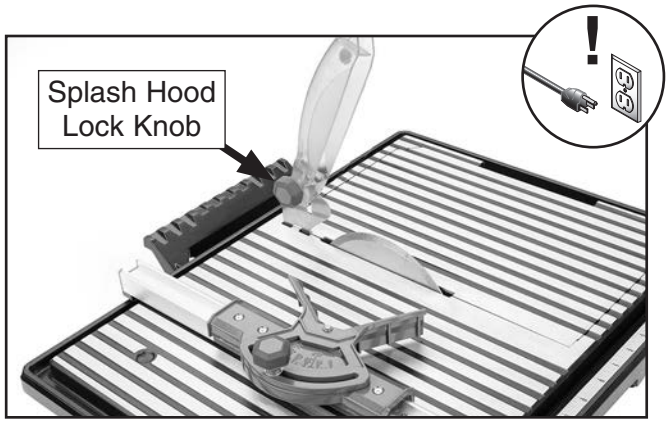


Figure 46. Splash hood lifted for fence adjustment.

3. Remove miter guide.

4. Position rip fence so indicator reads 0" (see **Figure 47**) and lock in place.

5. Loosen both screws shown in **Figure 47**.

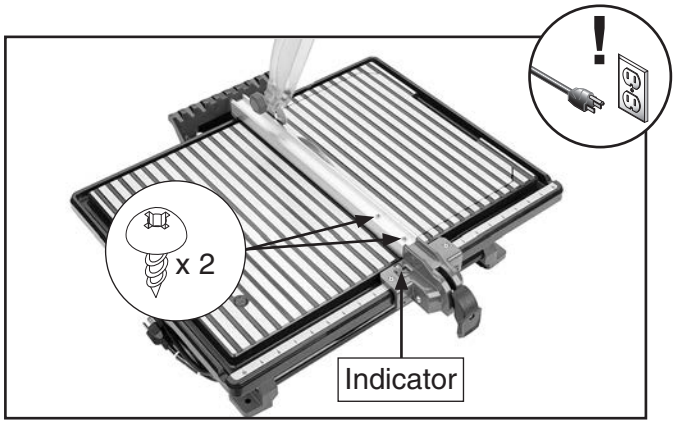


Figure 47. Rip fence adjustment screw locations.

6. Adjust rip fence until it barely contacts blade. There should be no gaps between blade and fence.

7. Tighten screws loosened in **Step 5.**

8. Remove bevel table.

9. Loosen (3) screws shown in **Figure 48**.

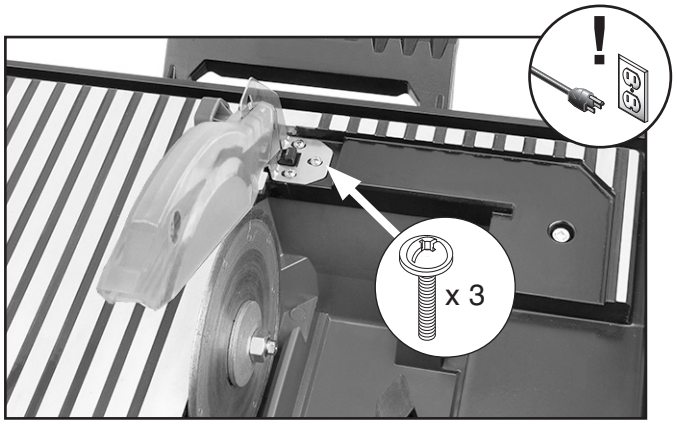


Figure 48. Splash hood mounting screw locations.

10. Use rip fence to align splash hood mounting bracket to blade (see **Figure 49**).

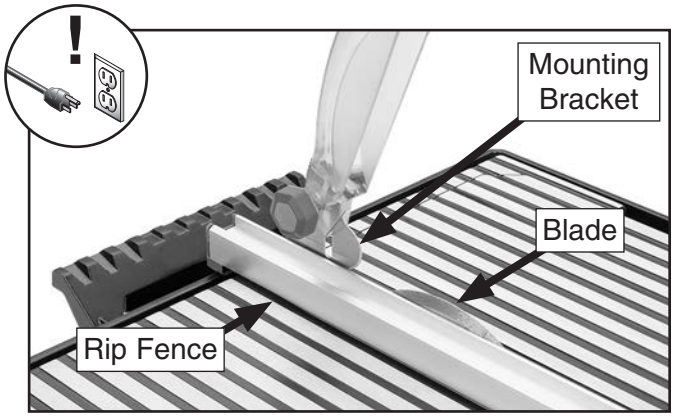


Figure 49. Bracket aligned with rip fence and blade.

11. Tighten screws loosened in **Step 9**.

Adjusting Fence

The factory has made all the necessary adjustments on your machine, but the rip fence may get knocked loose during shipping or eventually loosen over time.

If the rip fence will not securely lock to the table, the cam in the locking mechanism may need to be tightened. If you experience difficulty sliding the fence across the width of the table, the fence set screws may need to be adjusted.

Items Needed	**Qty**
Hex Wrenches 2, 3mm	1 Ea.

Tightening Cam

1. DISCONNECT MACHINE FROM POWER!

2. Remove miter guide from rip fence and unlock and remove rip fence from table.

3. Loosen cam screw shown in **Figure 50**.

4. Tighten cam by turning it towards lock lever (see **Figure 50**).

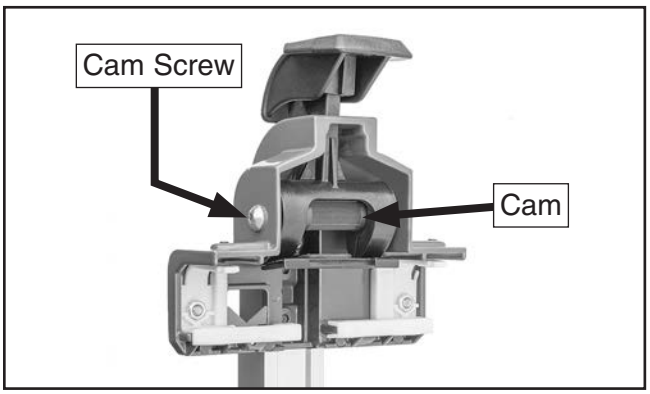


Figure 50. Cam and cam screw location.

5. Test cam by locking rip fence to table. Tighten cam screw to secure when satisfied.

Adjusting Fence Set Screws

1. DISCONNECT MACHINE FROM POWER!

2. Adjust set screws shown in **Figure 51** to adjust rip fence movement.

— Loosen set screws to allow rip fence to glide more easily across table.

— Tighten set screws to cause rip fence to glide less easily across table.

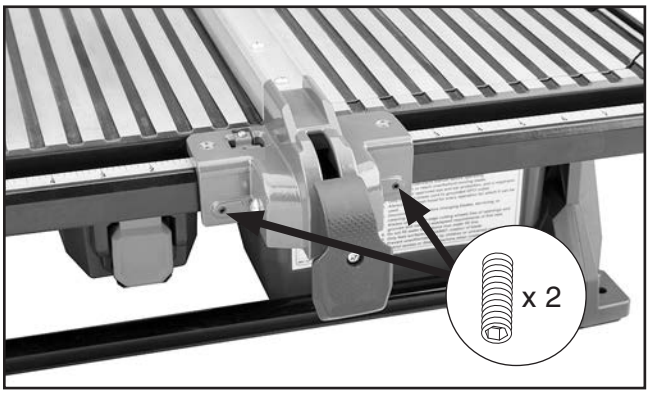


Figure 51. Rip fence adjustment set screws.

3. Test adjustment by unlocking rip fence and sliding it along table width. Adjust set screws until satisfied.

SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. 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.

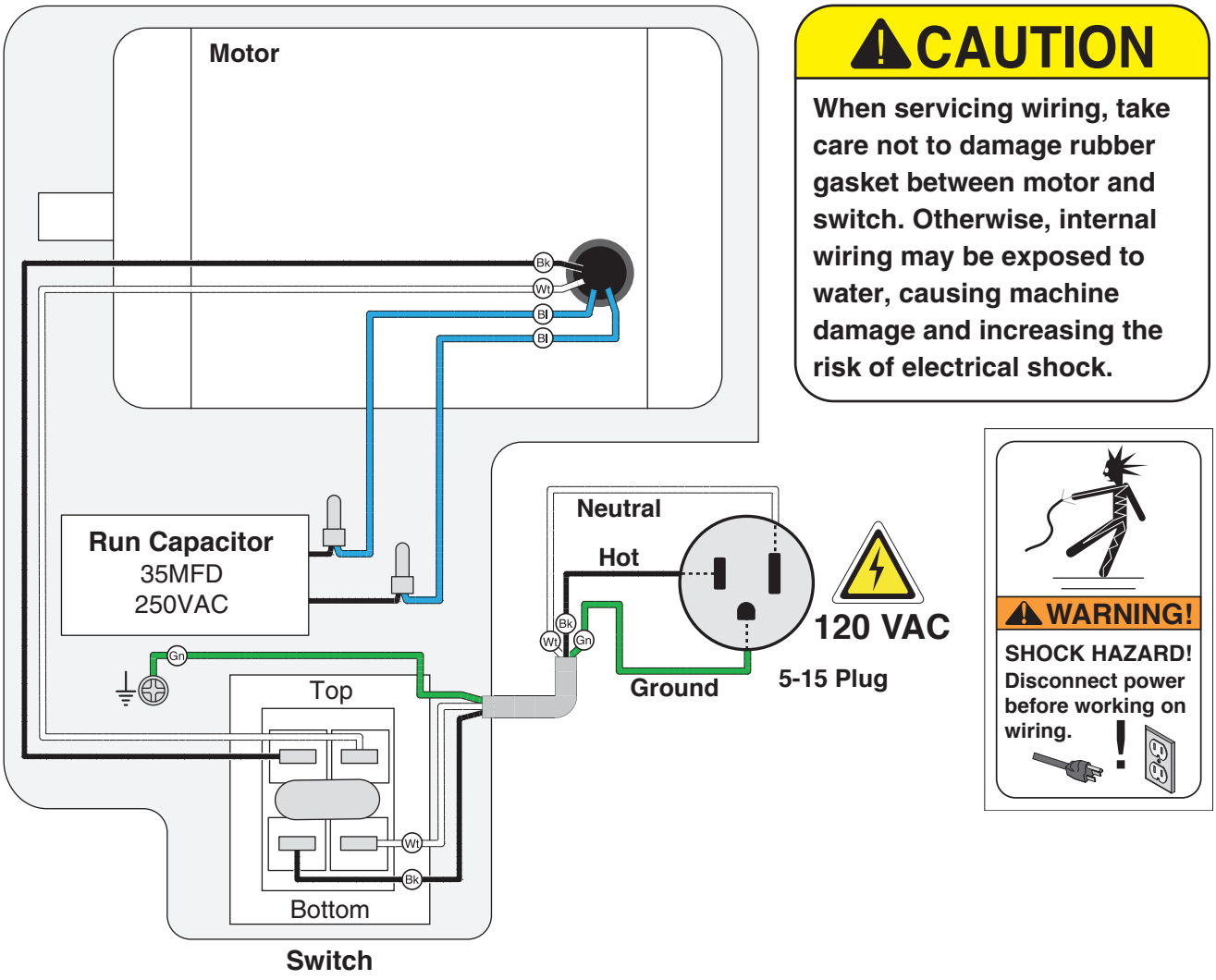
NOTICE

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

COLOR KEY

BLACK	Bk	BLUE	Bl	YELLOW	Yl	LIGHT BLUE	Lb
WHITE	Wt	BROWN	Br	YELLOW GREEN	Yg	BLUE WHITE	Bw
GREEN	Gn	GRAY	Gy	PURPLE	Pu	TURQUOISE	Tu
RED	Rd	ORANGE	Or	PINK	Pk		

Wiring Diagram



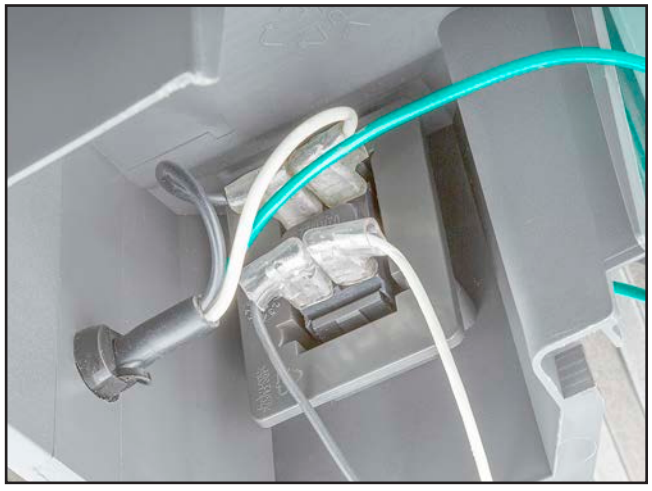


Figure 52. ON/OFF switch.

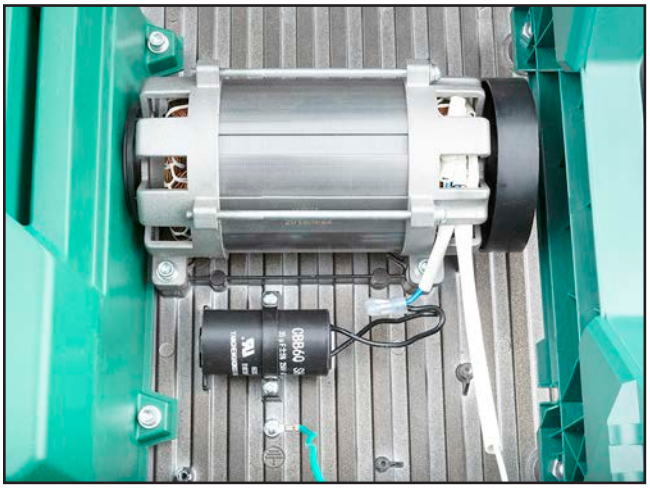
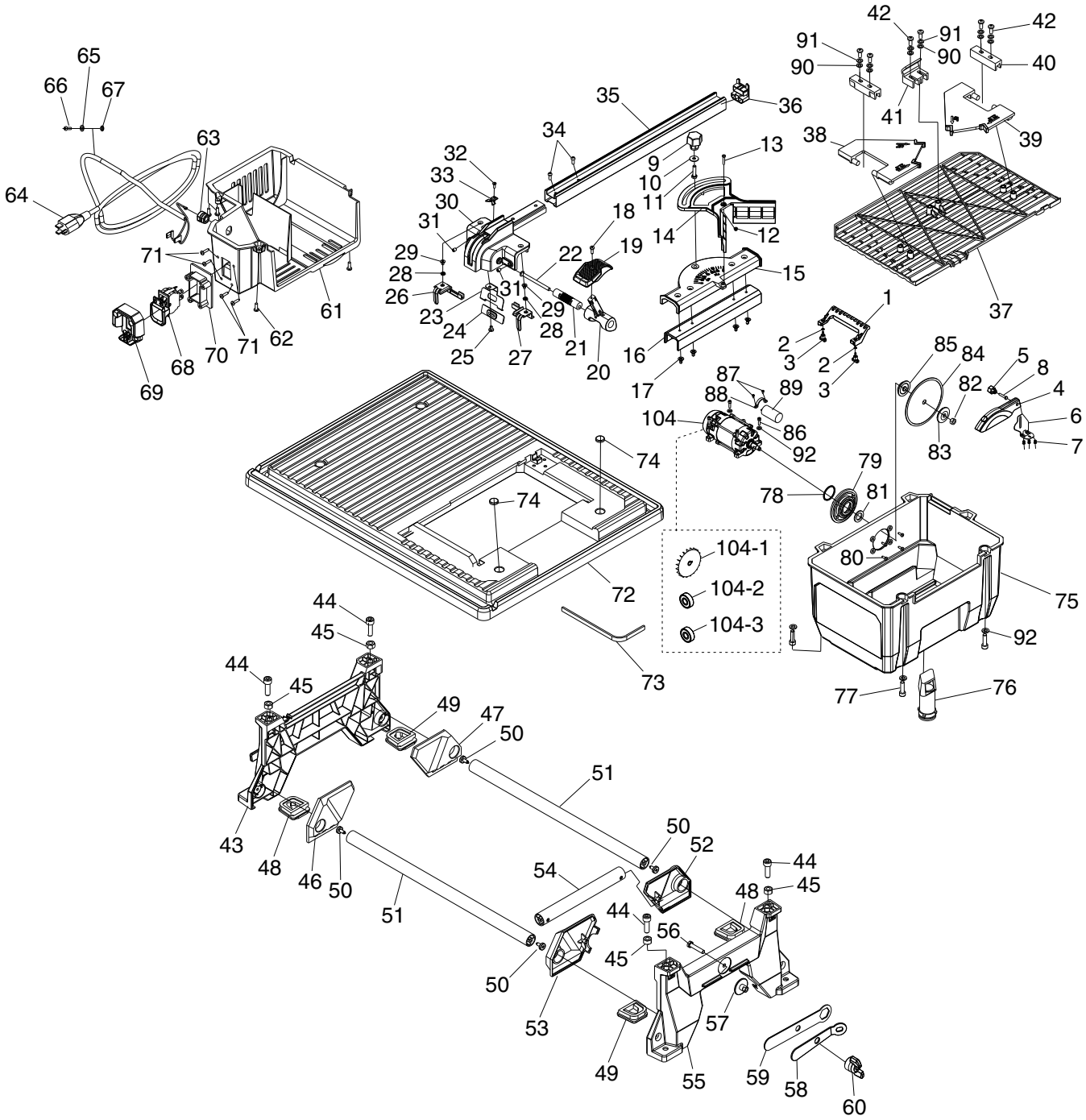


Figure 53. Run capacitor.

SECTION 9: 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.

Main

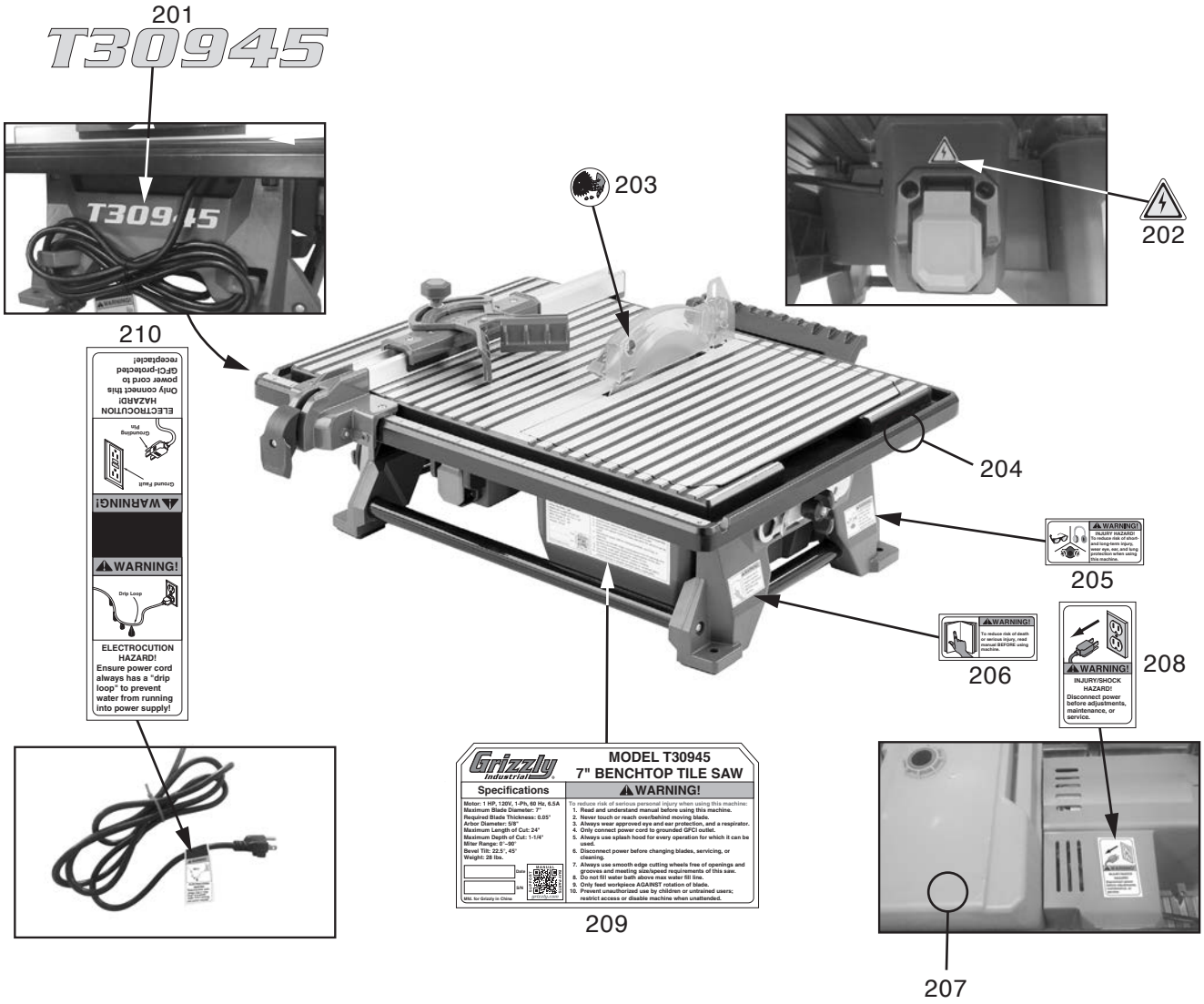


Main Parts List

REF	PART #	DESCRIPTION
1	PT30945001	REAR SUPPORT
2	PT30945002	INT TOOTH WASHER 5MM
3	PT30945003	KNOB BOLT M6-1 X 18, D32, WING
4	PT30945004	SPLASH HOOD
5	PT30945005	KNOB M6-1, 6-LOBE, D32
6	PT30945006	SPLASH HOOD MOUNTING BRACKET
7	PT30945007	FLANGE SCREW M4-.7 X 6
8	PT30945008	HEX BOLT M6-1 X 30
9	PT30945009	KNOB M5-.8, 6-LOBE, D32
10	PT30945010	FLAT WASHER 5MM
11	PT30945011	HEX BOLT M5-.8 X 20
12	PT30945012	LOCK NUT M3-.5
13	PT30945013	PHLP HD SCR M3-.5 X 20
14	PT30945014	MITER GUIDE
15	PT30945015	MITER GUIDE FIXED SEAT
16	PT30945016	MITER GUIDE SLIDING SEAT
17	PT30945017	TAP SCREW M4.2 X 9
18	PT30945018	TAP SCREW M4.2 X 16
19	PT30945019	FENCE LOCK HANDLE
20	PT30945020	FENCE LOCK CAM
21	PT30945021	ECCENTRIC SHAFT
22	PT30945022	BUTTON HD CAP SCR M5-.8 X 65
23	PT30945023	FENCE LOCK CAM BRACKET
24	PT30945024	RUBBER PLATE
25	PT30945025	PHLP HD SCR M4-.7 X 6
26	PT30945026	SLIDING PLATE (LH)
27	PT30945027	SLIDING PLATE (RH)
28	PT30945028	HEX NUT M4-.7
29	PT30945029	FLAT HD SCR M4-.7 X 6
30	PT30945030	FENCE FIXED SEAT
31	PT30945031	SET SCREW M4-.7 X 6
32	PT30945032	PHLP HD SCR M3-.5 X 8
33	PT30945033	POINTER
34	PT30945034	PHLP HD SCR M4-.7 X 10
35	PT30945035	RIP FENCE
36	PT30945036	RIP FENCE COVER
37	PT30945037	BEVEL TABLE
38	PT30945038	BEVEL STOP BRACKET (LH)
39	PT30945039	BEVEL STOP BRACKET (RH)
40	PT30945040	BEVEL BRACKET SEAT
41	PT30945041	BEVEL LOCK PLATE
42	PT30945042	PHLP HD SCR M5-.8 X 12
43	PT30945043	BASE (LH)
44	PT30945044	CAP SCREW M8-1.25 X 25
45	PT30945045	HEX NUT M8-1.25
46	PT30945046	FOOT COVER (FR-LH)
47	PT30945047	FOOT COVER (RR-LH)
48	PT30945048	FOOT (LH)

REF	PART #	DESCRIPTION
49	PT30945049	FOOT (RH)
50	PT30945050	TAP SCREW M4.8 X 16
51	PT30945051	BASE TUBE
52	PT30945052	FOOT COVER (RR-RH)
53	PT30945053	FOOT COVER (FR-RH)
54	PT30945054	FOOT TUBE
55	PT30945055	BASE (RH)
56	PT30945056	HEX BOLT M6-1 X 30
57	PT30945057	WRENCH SEAT
58	PT30945058	ARBOR WRENCH 8MM
59	PT30945059	WRENCH 19MM CLOSED-END
60	PT30945060	KNOB M6-1, D46, WING
61	PT30945061	MOTOR COVER
62	PT30945062	PHLP HD SCR M4-.7 X 12
63	PT30945063	STRAIN RELIEF TYPE-1 9/16
64	PT30945064	POWER CORD 18G 3W 86" 5-15P
65	PT30945065	LOCK WASHER 4MM
66	PT30945066	PHLP HD SCR M4-.7 X 8
67	PT30945067	FLAT WASHER 4MM
68	PT30945068	ON/OFF SWITCH KEDU HY18 20A 125/250V
69	PT30945069	SWITCH FRONT PANEL
70	PT30945070	SWITCH REAR PANEL
71	PT30945071	TAP SCREW M3.5 X 13
72	PT30945072	TABLE
73	PT30945073	GASKET 320 X 20 X 8
74	PT30945074	SCREW COVER
75	PT30945075	WATER TRAY
76	PT30945076	OVERFLOW DRAIN PLUG
77	PT30945077	CAP SCREW M6-1 X 16
78	PT30945078	O-RING 54.5 X 3.55
79	PT30945079	WATER TRAY SEALING COVER
80	PT30945080	TAP SCREW M2.9 X 8
81	PT30945081	SEALING WASHER 27 X 17.5 X 2.5MM
82	PT30945082	HEX NUT M12-1.5
83	PT30945083	OUTER BLADE FLANGE 56 X 8MM
84	PT30945084	BLADE 7"
85	PT30945085	INNER BLADE FLANGE 56 X 14.6MM
86	PT30945086	CAP SCREW M6-1 X 25
87	PT30945087	PHLP HD SCR M4-.7 X 8
88	PT30945088	CAPACITOR BRACKET
89	PT30945089	R CAPACITOR 35M 250V 1-3/8 X 2-5/8
90	PT30945090	FLAT WASHER 5MM
91	PT30945091	LOCK WASHER 5MM
92	PT30945092	FLAT WASHER 6MM
104	PT30945104	MOTOR 1HP 120V 1-PH
104-1	PT30945104-1	MOTOR FAN
104-2	PT30945104-2	BALL BEARING 6201-2RS (FRONT)
104-3	PT30945104-3	BALL BEARING 6003-2RS (BACK)

Labels & Cosmetics



REF	PART #	DESCRIPTION
201	PT30945201	MODEL NUMBER LABEL
202	PT30945202	ELECTRICITY LABEL
203	PT30945203	SPLASH HOOD LABEL
204	PT30945204	TOUCH-UP PAINT, GRIZZLY BLACK
205	PT30945205	EYE/EAR/LUNG INJURY LABEL

REF	PART #	DESCRIPTION
206	PT30945206	READ MANUAL LABEL
207	PT30945207	TOUCH-UP PAINT, GRIZZLY GREEN
208	PT30945208	DISCONNECT POWER LABEL
209	PT30945209	MACHINE ID LABEL
210	PT30945210	DRIP LOOP/GFCI LABEL

⚠WARNING

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

WARRANTY & 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.

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.

In the event you need to use 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.

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.

To take advantage of this warranty, you must register it at **https://www.grizzly.com/secureforms/warranty-card**, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.