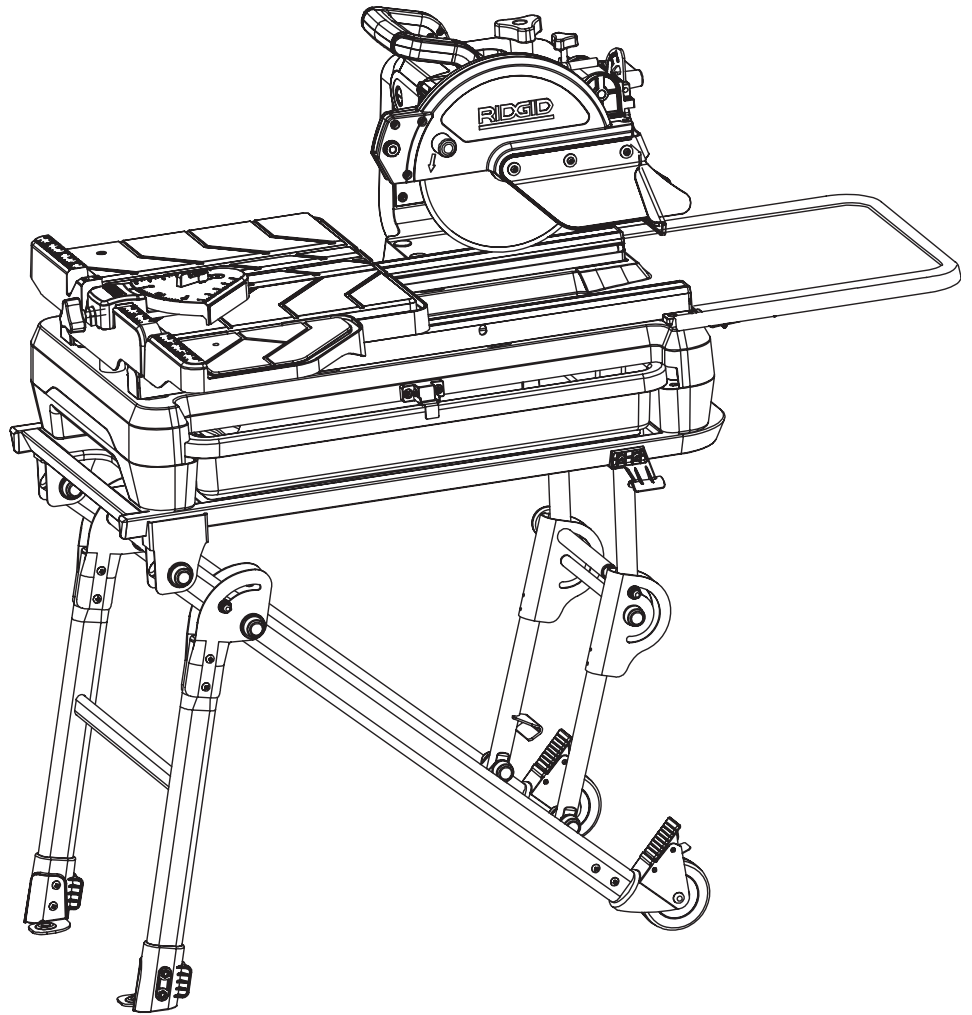


# OPERATOR'S MANUAL

10 INCH WET TILE/STONE SAW  
WITH LASER GUIDE, LED WORK LIGHT,  
AND STAND

WTS2000L



---

**WARNING:**

To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

---

Thank you for buying a RIDGID product.

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

# TABLE OF CONTENTS

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■ <b>General Safety Instructions</b> .....	3
Safety Symbols .....	3
Work-Area Safety .....	3
Electrical Safety .....	3
Personal Safety .....	4
Tool Safety .....	5
Service Safety .....	5
■ <b>Specific Safety Instructions for RIDGID Wet Tile/Stone Saw</b> .....	6
Safety Instructions for Wet Tile/Stone Saw .....	6-7
Safety Instructions for Laser .....	8
■ <b>Glossary of Terms</b> .....	9
■ <b>Motor Specification and Electrical Requirements</b> .....	9
Power Supply and Motor Specification .....	9
Motor Overload Protector .....	10
Wire Sizes .....	10
■ <b>Unpacking and Checking Contents</b> .....	11
Unpacking .....	11
List of Loose Parts .....	11
List of Main Parts .....	12
■ <b>Assembly</b> .....	13
Stand Set Up .....	13-14
Installing the Motor Assembly .....	15
Installing the Water Pump .....	15-16
Mounting Your Saw .....	17
Installing the Extension Table .....	18
Installing the Extension Water Tray .....	18
Installing the Saw Blade .....	19-20
Installing the Universal Guide .....	20
■ <b>Getting to Know Your Wet Tile/Stone Saw</b> .....	21-24
Technical Specifications .....	24
■ <b>Adjustments</b> .....	25
Depth Adjustment .....	25
Depth-Stop Adjustment .....	25
Bevel-Cut Adjustment .....	26
Work Table Stop/Go Adjustment .....	26
Universal Guide Adjustment .....	27
Laser Beam Calibration .....	28
Rail Adjustment .....	29
■ <b>Operation</b> .....	30
Safety Instructions for Basic Operations .....	30-31
Filling and Draining the Water Tray .....	31
Power Supply .....	31
Cutting Tile and Stone .....	32
Straight Cut .....	32
Flat 0°- 45° Angle Cut .....	32
Bevel Cut .....	33
Plunge Cut .....	33
Moving the Saw .....	34
■ <b>Maintaining Your Saw</b> .....	35
Maintenance .....	35
Cleaning the Water Pump .....	35
Changing Carbon Brushes .....	35
■ <b>Attachments</b> .....	36
■ <b>Troubleshooting</b> .....	36
■ <b>Exploded Drawings and Parts List</b> .....	37-40
■ <b>Warranty</b> .....	44

# GENERAL SAFETY INSTRUCTIONS

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## **⚠ WARNING:**

**Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.**

---

Safety is a combination of using common sense, staying alert, and knowing how your tile saw works. Read this manual to understand this tile saw and how to use it safely.

## Safety Symbols

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations that accompany them deserve your careful attention and understanding. The safety warnings DO NOT, by themselves, eliminate any danger. They are no substitutes for proper accident-prevention measures.

---

## **⚠ DANGER:**

**Someone will be seriously injured or killed if the safety information is not followed.**

---

## **⚠ WARNING:**

**Someone could be seriously injured or killed if the safety information is not followed.**

---

## **⚠ CAUTION:**

**Someone may be injured if the safety information is not followed.**

---

## Damage Prevention and Information Messages

These inform the user of important information and/or instructions that could lead to equipment or other property damage if they are not followed. Each message is preceded by the word "NOTE," as in the example below:

**NOTE:** Equipment and/or property damage may result if these instructions are not followed.

## Work-Area Safety

- **KEEP THE WORK AREA CLEAN AND WELL LIT.** Cluttered benches and dark areas invite accidents.
- **DON'T USE IN A DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations or expose them to rain. Don't operate power tools in potentially explosive environments, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks, which may ignite the dust or fumes.
- **OPERATE THE TOOL IN WELL-VENTILATED AREAS,** and provide proper dust removal. Dust generated from some materials can be hazardous to your health. Use dust-collection systems whenever possible.
- **KEEP CHILDREN AND BYSTANDERS AWAY.** All visitors should be kept a safe distance away from the work area.

- **USE THE RIGHT TOOL.** Don't force a tool or attachment to do a job for which it was not designed.
- **MAKE THE WORKSHOP CHILD-PROOF** with padlocks, master switches, or by removing starter keys.

## Electrical Safety

---

### **⚠ WARNING:**

**To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch the plug with wet hands.**

---

- **VOLTAGE:** Before plugging in the tool, make sure that the outlet voltage is within the voltage marked on the tool's data plate.
- **DO NOT USE "AC ONLY" RATED TOOLS WITH A DC POWER SUPPLY.**
- **DO NOT EXPOSE POWER TOOLS TO RAIN OR WET CONDITIONS.** Water entering a power tool will increase the risk of electric shock.
- If operating the power tool in damp locations is unavoidable, always use a Ground Fault Circuit Interrupter to supply power to your tool. Always wear electrician's rubber gloves and footwear in damp conditions.
- **DO NOT ABUSE THE CORD.** Never use the cord to carry the tools or to pull the plug from the outlet. Keep the cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- **USE THE PROPER EXTENSION CORD.**

## Extension Cords

Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances, store indoors while not in use."

Use only extension cords having an electrical rating equal to or greater than the rating of the product. Do not use damaged extension cords. Examine the cord before using, and replace it if it is damaged. Do not abuse extension cords, and do not yank on any cord to disconnect it. Keep the cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

- Make sure that your extension cord is in good condition.
- When using an extension cord, be sure to use one that is heavy enough to carry the current your product will draw. An Undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

# GENERAL SAFETY INSTRUCTIONS

- Table 1 shows the correct size to use depending on cord length and ampere rating. If in doubt, use the next heavier gauge: the smaller the gauge number, the heavier the cord.
- When operating a power tool outdoors, ALWAYS use an outdoor extension cord marked “W-A” or “W.” These cords are rated for outdoor use and reduce the risk of electric shock.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool’s plug.

Ampere Rating	Volts	Total Length of Cord in Feet			
		25 ft.	50 ft.	100 ft.	150 ft.
		A. W. G.			
0~6	120 V~	18	16	16	14
6~10		18	16	14	12
10~12		16	16	14	12
12~16		14	12	Not Recommended	

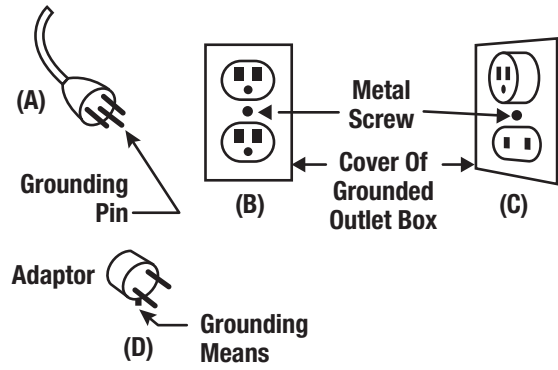
Table 1

## Ground Instruction

### All Grounded, Cord-Connected Tools:

- In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to reduce the risk of electrical shock. This tool has an electric cord with an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
  - Do not modify the plug provided with this tool. If it will not fit the outlet, have a properly grounded outlet installed by a qualified electrician.
  - Improper connection of the equipment-grounding conductor can result in electric shock. The wire covered with green insulation is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the green wire to a live terminal.
  - Check with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if there is a question as to whether the tool is properly grounded. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool’s plug.
  - Repair or replace a damaged or worn cord immediately.
- Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 Volts:
- This tool is intended for use on a circuit with a grounded outlet (B, Fig. 1). The tool has a grounding plug (A, Fig. 1).

- A temporary adapter (D, Fig. 1) may be used to connect this plug to a 2-pole receptacle (C, Fig. 1), if a properly grounded outlet is not available. The green-colored tab extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box. The temporary adapter should be used only until a qualified electrician can install a properly grounded outlet.



Adaptor Is Not Permitted In Canada

Fig. 1

## Permanently Connected Tools

This tool can be permanently connected to a grounded, metal, wiring system or to a system that has an equipment-grounding conductor.

Ground-fault circuit interrupter (GFCI) protection should be provided on the circuit or outlet to be used for the tile saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.

## Personal Safety

### ⚠ WARNING:

The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power-tool operation, always wear safety goggles or safety glasses with side shields, and a full-face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with shields. Always use eye protection, which is marked to comply with ANSI Z87.1



# GENERAL SAFETY INSTRUCTIONS

---

- **STAY ALERT, WATCH WHAT YOU ARE DOING, and USE COMMON SENSE** when operating a power tool.
- **DO NOT** use the tool while tired or under the influence of drugs, alcohol, or medication.
- **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry. Pull back and secure long hair. Non-slip footwear is recommended.
- **KEEP YOUR HAIR, CLOTHING, AND GLOVES AWAY FROM MOVING PARTS.**
- **REMOVE ADJUSTING KEYS OR WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- **ALWAYS USE SAFETY GLASSES.** Everyday glasses may have impact-resistant lenses, but they are NOT safety glasses.
- **USE A DUST OR FACE MASK,** if the operation is dusty.
- **WEAR HEARING PROTECTION** to help prevent hearing loss.
- **NEVER TOUCH THE PINS OF THE ELECTRICAL PLUG** while inserting it into or removing it from an electrical socket.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped, or if the cutting tool is unintentionally contacted.
- **DO NOT USE TOOL IF THE SWITCH DOES NOT TURN IT “ON” OR “OFF.”** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- **DISCONNECT THE TOOL** before servicing, when changing accessories (such as cutting blades), or storing the tool.
- **STORE IDLE TOOLS OUT OF THE REACH OF CHILDREN** and other untrained people.
- **NEVER LEAVE THE TOOL RUNNING UNATTENDED;** turn the power off. Don't leave the tool until it comes to a complete stop.
- **ALWAYS MAINTAIN TOOLS WITH CARE.** Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control. Follow all instructions for lubricating and changing accessories.
- **CHECK FOR DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **USE RECOMMENDED ACCESSORIES.** Consult the product manual for recommended accessories. The use of improper accessories may increase the risk of personal injury.

## Tool Safety

- **KEEP ALL GUARDS IN PLACE** and in working order.
- **AVOID ACCIDENTAL STARTING.** Be sure the switch is in the “Off” position before plugging the tool into an electrical outlet.
- **DO NOT CARRY TOOLS WITH YOUR FINGER ON THE SWITCH.**
- **DO NOT OVER REACH.** Keep proper footing and balance at all times.
- **DO NOT FORCE THE TOOL.** Use the correct tool and blade for your application. The correct tool and blade will do the job better and more safely when used at the rate for which they are designed.

## Service Safety

- If any part of this wet-tile/stone saw is missing or should break, bend, or fail in any way; or should any electrical component fail to perform properly: **ALWAYS** shut off the power switch and remove the plug from the power source, and have the missing, damaged, or failed part replaced **BEFORE** resuming operation.
- When servicing a tool, **ALWAYS** use only identical replacement parts. Follow instructions in the Maintenance Section on page 35 of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

# SPECIFIC SAFETY INSTRUCTIONS FOR RIDGID WET TILE/STONE SAW

## Safety Instructions for Wet Tile/Stone Saw

### ⚠ WARNING:

Be sure to read and understand all instructions in this manual before using this Professional Wet Tile/Stone Saw with Laser Guide, LED Work light and Stand. Failure to follow all instructions may result in electric shock, fire and/or serious personal injury

### ⚠ WARNING:

To reduce the risk of mistakes that could cause serious, permanent injury, do not plug the tile saw into an electrical receptacle until the following steps have been satisfactorily completed:

- **COMPLETELY ASSEMBLE THE SAW** (See “Assembly” section, page 13)
- **LEARN THE USE AND FUNCTION OF THE ON-OFF SWITCH**, blade guard, laser-adjustment knob, overload protector, spindle lock, depth-stop-adjustment knob, depth-adjustment knob, bevel-cut-adjustment knob, universal guide, etc. (See “Getting to Know Your Tile Saw” on page 24.)

- **REVIEW AND UNDERSTAND ALL SAFETY INSTRUCTIONS AND OPERATING PROCEDURES** in this manual.
- **REVIEW THE MAINTENANCE METHODS** for this saw (See “Maintaining Your Saw” section, page 35).
- **NEVER** put your fingers or hands in the path of the saw blade or other cutting tool.
- **NEVER REACH BEHIND** the cutting tool with either hand for any reason. Do not reach behind the blade to hold down the work piece, support the work piece, remove scraps, or for any other reason.
- **NEVER** use a hand position where a sudden slip could cause the fingers or the hand to move into a saw blade.
- **FIND AND READ ALL THE WARNING LABELS** found on the tool (shown below).

### CAUTION

iST OP/GOi knob must be in the iST OPI position before operating, moving or transporting the saw.  
For your safety, use the table lock to secure the working table before moving or transporting the saw.

### MISE EN GARDE

L'interrupteur ' marche/arrêt ' doit être en position ' arrêt ' avant d'utiliser , de déplacer ou de transporter la scie.  
Pour votre sécurité, enclenchez le verrouillage du plateau de travail avant de déplacer ou transporter la scie.

### PRECAUCIÓN

La perilla de STOP/GO debe estar en la posición de ST OP (PARADA) antes de funcionar , de mover o de transportar la sierra.  
Para su seguridad, utilice la cerradura de la mesa para asegurar la mesa de trabajo antes de mover o de transportar la sierra.

### ⚠ WARNING

FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING SAW

- WEAR EYE PROTECTION
- USE SPLASH HOOD FOR EVERY OPERATION FOR WHICH IT CAN BE USED
- DISCONNECT SAW BEFORE SERVICING, WHEN CHANGING CUTTING BLADES, AND WHEN CLEANING
- USE TOOL ONLY WITH SMOOTH-EDGE CUTTING BLADE FREE OF OPENINGS AND GROOVES
- REPLACE DAMAGED CUTTING BLADE BEFORE OPERATING
- DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS

### ⚠ AVERTISSEMENT

POUR ASSURER VOTRE SECURITE, LISEZ LE MODE D'EMPLOI AVANT D'UTILISER LE COUPEUR

- PORTEZ LES LUNETTES DE PROTECTION
- PORTEZ LA CASQUE DE PROTECTION PENDANT CHAQUE OPERATION
- DECONNECTEZ LE MEULE AVANT L'UTILISATION QUAND ON CHANGE LE MEULE DE COUPAGE OU LE NETTOIE
- UTILISEZ SEULEMENT L'OUTIL WITH LE MEULE A BORD LISSE SANS RAINURE
- REMPLACEZ LE MEULE AVEC DEGRATS AVANT L'OPERATION
- N'EXPOSEZ PAS DANS LA PLUIE OU UTILISE DANS L'ENVIRONNMENT HUMIDE

### ⚠ ADVERTENCIA

LEE ESTA INSTRUCCION MANUAL ANTES DE USA LA SIERRA PARA TU BIEN

- PONE EL PROTECTOR PARA LOS OJOS
- USA UNA CAPUCHA PARA PROTEGERSE DE LAS MANCHAS CUANDO USA LA SIERRA
- DISCONNECTA LA SIERRA CUANDO NO ESTA USADA, O VA A CAMBIAR LA RUEDA DE CORTAR, O VA A LIMPIARLA
- CUANDO SE USA, SOLO USA LA PARTE LISA DE LA RUEDA DE COETAR, Y DEJA LIBRE LA OTEA PARTE Y LA PANURA
- ANTES DE USAR LA SIERRA, TIENE QUE CAMBIAR LA ROTA RUEDA DE CORTAR
- NO LA DEJES EXPUESTA A LA LLUVIA NI LA USES EN CONDCIONES MOJADAS

### CAUTION

LASER RADIATION - DO NOT STARE INTO BEAM



630-670nm OUTPUT ≤2.5mW  
CLASS IIIa LASER PRODUCT  
COMPLIES WITH 21CFR  
PARTS 1040.10 AND 1040.11.

↓  
AVOID EXPOSURE - LASER RADIATION IS EMITTED THROUGH THIS APERTURE

### PRECAUCIÓN

RADIACION LASER - NO MIRE FIJAMENTE EL RAYO LASER



↓  
EVITE LA EXPOSICION - RADIACION LASER. EVITE EXPOSICION DIRECTA DE LOS OJOS

### PP-399

Submersible Pump  
120V 0.23A 60Hz

IMPEDANCE PROTECTED

Acceptable For Indoor And Outdoor Use

### WARNING

- To reduce the risk of electric shock, connect only to a properly grounded, grounding type receptacle.
- To reduce the risk of electric shock, install only on a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).
- Risk of electric shock - This pump has not been investigated for use in swimming pool or marine areas.

### CAUTION

This pump has been evaluated for use with water only.



# SPECIFIC SAFETY INSTRUCTIONS FOR RIDGID WET TILE/STONE SAW

The labels on your tool may include the following symbols:

- V . . . . . Volts
- A . . . . . Amperes
- Hz . . . . . Hertz
- W . . . . . Watts
- ~ . . . . . Alternating Current
- min. . . . . Minutes
- $n_o$  . . . . . No-load speed
- RPM . . . . . Revolutions or reciprocation per minute
- ▲ . . . . . Indicates danger, warning or caution.  
It means ATTENTION! Your safety is involved.

---

## ▲ WARNING:

Use of this tool can generate dust-containing 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 upon how often do this type of work. To reduce your exposure to these chemicals:

Work in a well-ventilated area.

Work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water.

Allowing dust to get into your mouth or eyes or to lie on the skin may promote absorption of harmful chemicals.

Use of accessories that are not recommended for use with this tool may create hazardous conditions.

---

- **DIRECTION OF FEED:** Always feed work into the blade against the rotational direction of the blade.
- **LET THE BLADE COME TO A COMPLETE STOP** before removing any jammed or off-cut material from around the blade area.
- **POSITION OF TILE SAW:** To avoid the possibility of the appliance plug or receptacle getting wet, position the tile saw to one side of a wall-mounted receptacle. The user should arrange a “drip loop” in the cord connecting the saw to a receptacle. (Fig. 2)

The “drip loop” is a section of the cord that hangs below the level of the receptacle or below the connector, if an extension cord is used, to keep the water that travels along the cord from coming into contact with the receptacle. (Fig. 2)

If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug the tool and examine the receptacle for water. Do not use the receptacle until it is completely dry.

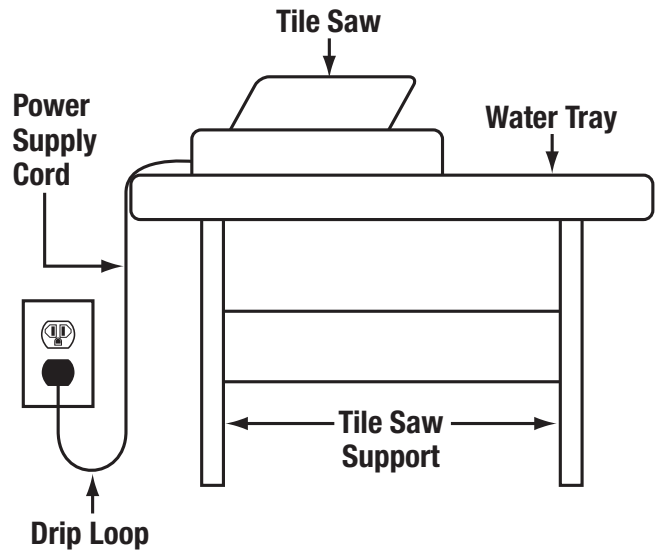


Fig. 2

# SPECIFIC SAFETY INSTRUCTIONS FOR RIDGID WET TILE/STONE SAW

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## Safety Instructions for Laser

This saw has a built-in laser light. The laser is class IIIa and emits output power of a maximum 2.5mW and 630~670nm wavelengths. The laser doesn't normally present an optical hazard.

---

### ⚠ CAUTION

The following label is on your saw. It indicates where the laser light is emitted by the saw.



### ⚠ CAUTION:

Avoid exposure. Laser radiation is emitted through this aperture.

---

---

### ⚠ CAUTION:

The use of controls or adjustments or the performance of procedures other than those directed in this manual may result in hazardous radiation exposure.

---

### ⚠ WARNING:

Laser radiation. Avoid direct eye exposure. Do not stare into the beam. Turn the laser on only when the tool is operated.

Be sure to read and understand all instructions. Always follow the following safety rules when using this saw:

**NEVER** aim the beam at any person or at any object other than the work piece.

**DO NOT** look directly into the laser-beam output aperture during operation. The laser beam can be harmful to the eyes.

**ALWAYS** keep the laser out of the reach of children. The laser on the saw is not a toy.

Using optical instruments with this product will increase eye hazard.

**DON'T ATTEMPT TO REPAIR OR DISASSEMBLE** the laser. If unqualified persons attempt to repair this product, serious injury may result. Any repair required on this laser product should be performed by authorized service-center personnel.

---



# GLOSSARY OF TERMS

---

## Arbor

The shaft on which a cutting tool is mounted.

## Bevel Cut

A cutting operation made across the width of the work piece in which the cut is not perpendicular to the surface of the work piece.

## Flat Angle Cut

An angle-cutting operation made through the face of work piece: The cut is perpendicular to the surface of the work piece and is at an angle other than 90° to the edge of the tile.

## Freehand

Performing a cut without using a rip fence (guide), fixture, hold-down, or other proper device to prevent the work piece from twisting during the cutting operation. Never cut free-hand with this tool.

## Off-Cut

The portion of the work piece that has been cut off.

## Plunge Cut

A cutting operation in which the rotating blade is lowered onto the work piece.

## Revolutions Per Minute (RPM)

The number of turns completed by a spinning object in one minute.

## Straight Cut

A cutting operation parallel to the one straight edge of the work piece.

## Work Piece

The item on which the cutting operation is being performed. The surfaces of a work piece are commonly referred to as faces, ends, and edges.

## Through-Sawing

Any cut that completely severs the work piece.

---

# MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

---

## Power Supply And Motor Specifications

### **⚠ WARNING:**

To reduce the risk of electrical hazards, fire hazards, or damage to the tool, use a ground-fault circuit interrupter. If the power cord is worn, cut, or damaged in any way, replaced it immediately to reduce the risk of shock or fire

The motor is wired for operation on 120v AC, 60 Hz service.

Rate H.P.	2-1/2
Voltage	120V
Amperes	15
Hertz (Cycles)	60
Phase	Single
RPM	4200

Table 2

## General Electrical Connections

### **⚠ WARNING:**

To reduce the risk of electrocution:

1. Use only identical replacement parts when servicing. Servicing should be performed only by a qualified, service technician.
2. Do not use in rain or where the floor is wet. This tool is intended for indoor, residential use only.

### **⚠ WARNING:**

Do not permit fingers to touch the terminals of plug when installing or removing the plug to or from the outlet.

# MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

## MOTOR OVERLOAD PROTECTOR

Your saw is equipped with a manual-reset, motor-overload protector. The overload protector is designed to stop the current to the saw when the motor current exceeds a safe level, when the motor is overloaded, or when a low-voltage condition exists.

### ⚠ WARNING:

**If the motor-overload protector stops the saw motor, immediately turn the saw switch to “OFF” and then allow the motor to cool. This will reduce the risk of the saw starting unexpectedly and causing harm or injury.**

When the motor-overload protector stops the motor:

1. After cooling to a safe operating temperature, the overload protector can be reset by pressing the overload-protector switch on the side of the motor. (See Fig. 3)
2. As soon as the overload-protector switch is reset, the saw may be started and operated normally.
3. Frequent “tripping” of the overload protector may occur under the following conditions:
  - Motor is overloaded: Overloading can occur if you feed the material to be cut too rapidly, or if saw blade is misaligned.
  - Low voltage: The saw motor is designed to operate on the voltage specified on the motor nameplate. Normal loads will be safely handled on voltages not more than 10% above or below the nameplate voltage. Heavy loads, however, require that the voltage at the motor terminals equals the voltage specified on nameplate.
4. Most motor troubles may be traced to loose or incorrect connections, overloading, reduced input voltage (such as small-size wire in the supply circuit), or to an overly long supply-circuit wire. Always check the connections, the load, and the supply circuit whenever the motor fails to perform satisfactorily.

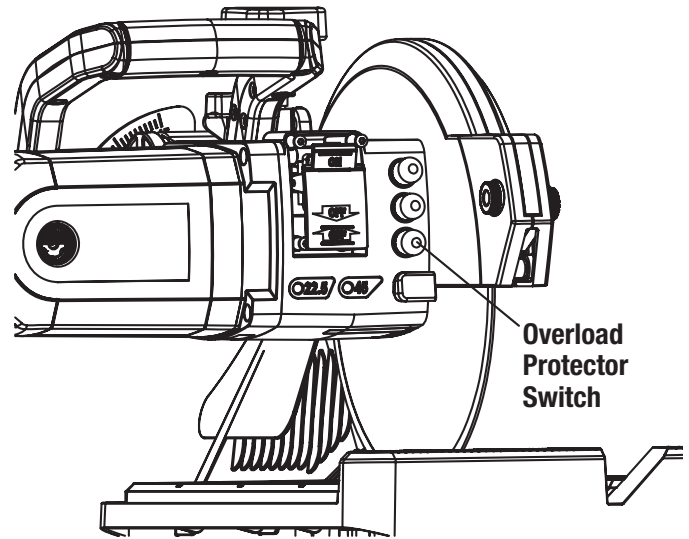


Fig. 3

## Wire Sizes

### NOTE:

Use proper extension cord. Make sure that the extension cord is in good condition and is heavy enough to carry the current your tool will draw. This tool draws 15 amps. Table 1 shows the correct size to use. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. If in doubt, use the next heavier gauge: the smaller the gauge number, the heavier the cord.

Ampere Rating	Volts	Total Length of Cord in Feet			
		25 ft.	50 ft.	100 ft.	150 ft.
		A. W. G.			
6~10	120V~	18	16	14	12
10~12		16	16	14	12
12~16		14	12	—	—

Table 3

# UNPACKING AND CHECKING CONTENTS

## Unpacking

The WTS2000L tile saw comes in one carton.

Separate all the parts from the packing materials. Refer to the “List of Loose Parts” below and “List of Main Parts” on page 12 to make certain that all the items are accounted for before discarding any packing material. Call RIDGID® Service Center if any parts are damaged or missing.

### ▲ WARNING:

**If any parts are missing, do not attempt to assemble the tile saw, plug in the power cord, or turn on the switch until the missing parts are obtained and are installed correctly.**

### NOTE: Before beginning assembly

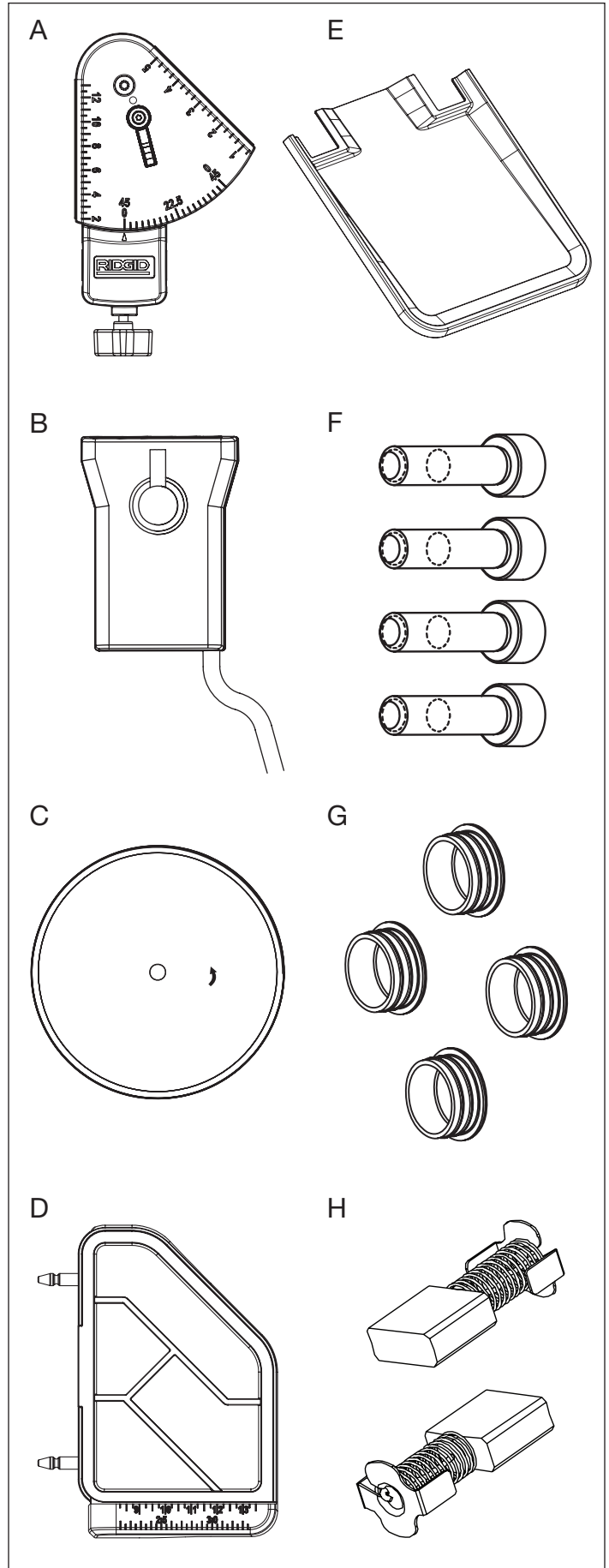
- Check the “List of Loose Parts” and “List of Main Parts” to make certain that all the items are accounted for. Check that all the parts are included. If you are missing any part, do not assemble the saw.
- Sometimes, small parts can get lost in packaging material. Do not throw away any packaging until the saw is fully assembled. Check the packaging for missing parts before contacting RIDGID.
- A complete parts list is at the end of the manual. Use this list to identify the part number of the missing part.

### ▲ WARNING:

**For your own safety, never connect a plug to a power source outlet until all assembly steps are complete and you have read and understand the safety and operating instructions.**

## List of Loose Parts

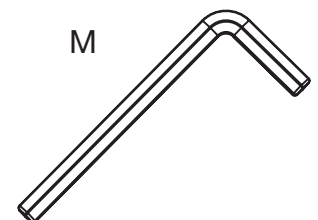
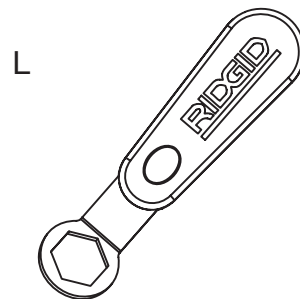
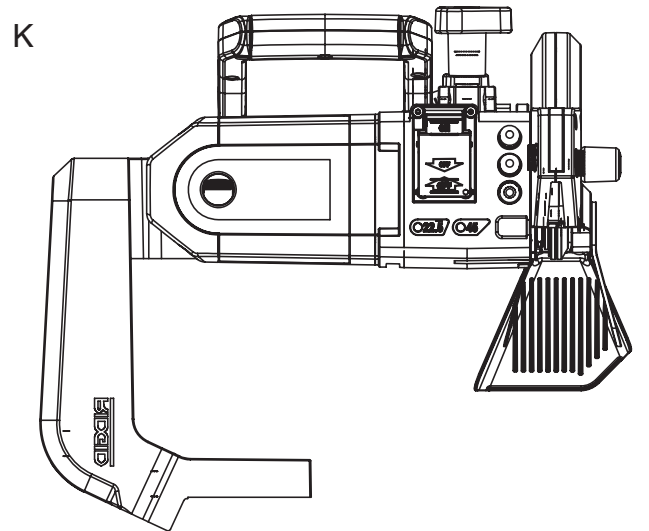
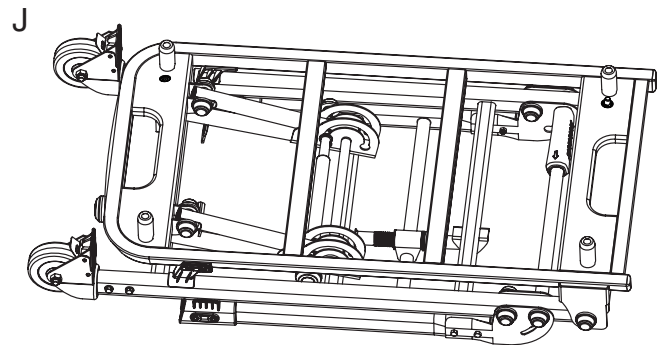
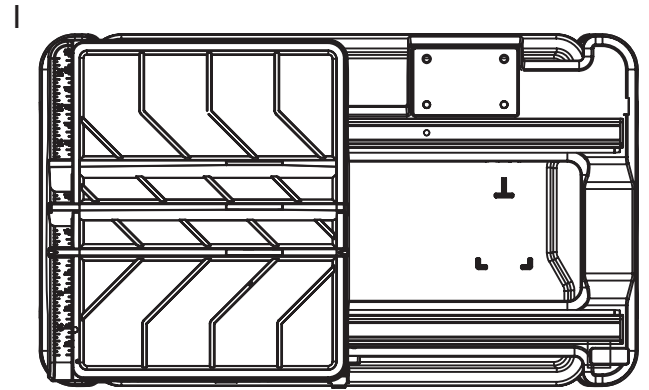
ITEM	PART NAME	QUANTITY
A	Universal Guide	1
B	Water Pump	1
C	Saw Blade	1
D	Extension Table	1
E	Extension Water Tray	1
F	Bolt	4
G	Bolt Cover	4
H	Carbon Brush	2



# UNPACKING AND CHECKING CONTENTS

## List of Main Parts

ITEM	PART NAME	QUANTITY
I	Frame Assembly & Water Tray	1
J	Stand	1
K	Motor Assembly	1
L	Nut Wrench	1
M	Hex Wrench	1



# ASSEMBLY

In addition to the nut wrench and hex wrench supplied with your saw, no tools are needed for assembly.

## Stand Set-Up

**▲ CAUTION:**  
To avoid serious injury when lifting the saw, bend your knees and lift with your legs, not with your back.

The saw can be placed on a flat surface for cutting operations without using the stand. (Fig. 4)

When using the stand, observe the following instructions:

### To Open the Stand:

1. Place the folded stand on a flat surface, as shown in Fig. 5.
2. Pull out the lock knob, then lift the handle (Fig. 5).
3. Continuing to lift the handle, pull the crossbar out until you hear the legs lock in place (Fig. 6).
4. On the opposite end of the stand, locate the handle and the orange lock sleeve on the crossbar, and note the arrow on the lock sleeve. Lift the handle and move the lock sleeve in the direction of the arrow on the sleeve. Allow the legs to fall (Fig. 7), and then release the sleeve. Hold the lift handle, and pull the lower crossbar until you hear the legs lock into place.

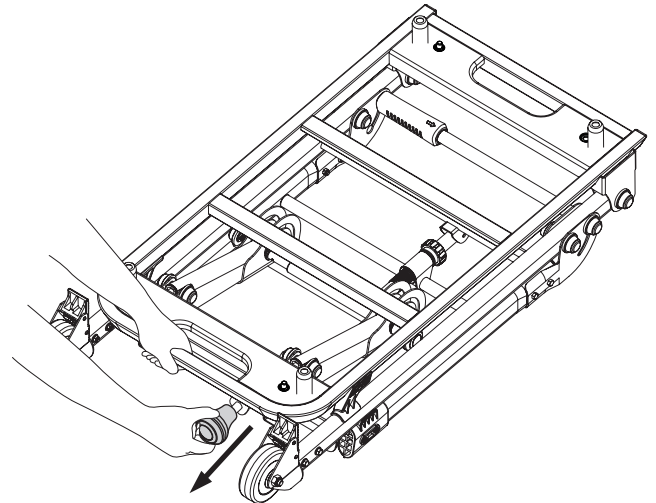


Fig. 5

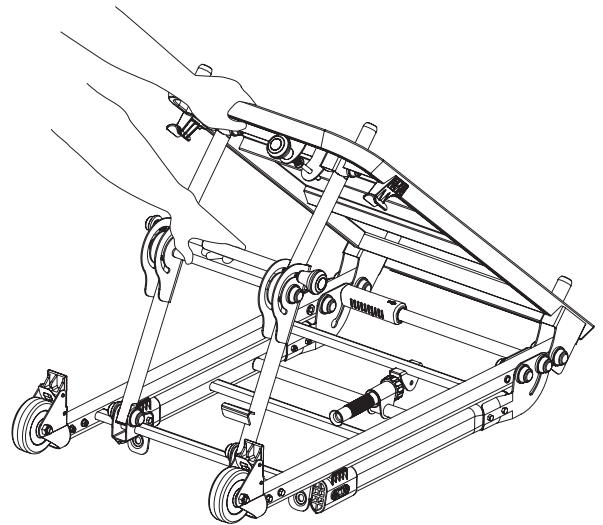


Fig. 6

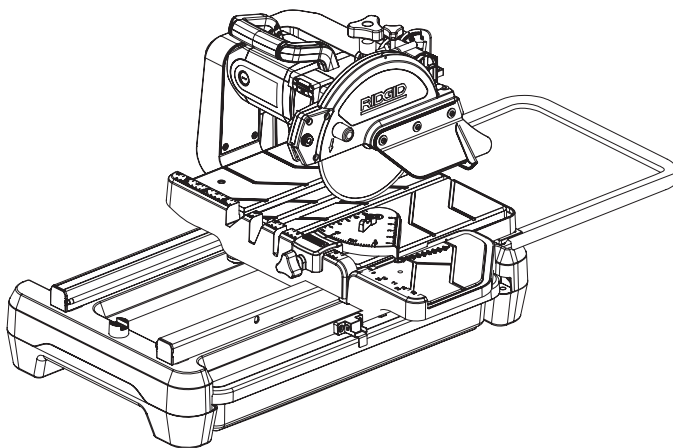


Fig. 4

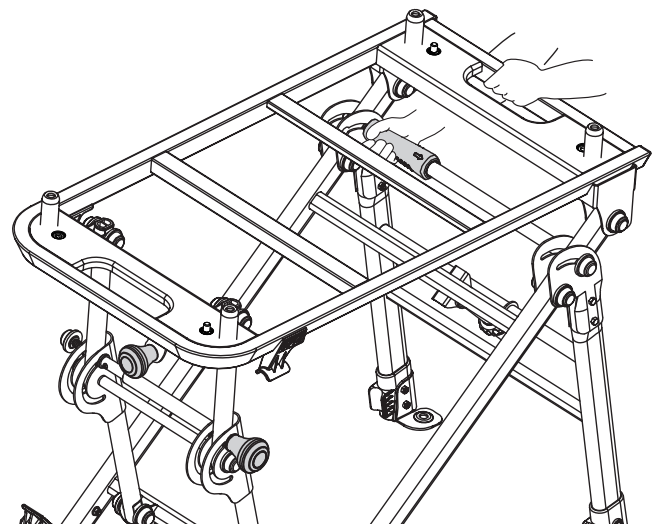


Fig. 7

# ASSEMBLY

## Stand Set-Up, continued

5. Tighten the locking nut (Fig 8). Make sure all connections are firm and the stand is steady.
6. The stand anchors located on the two shorter legs (Fig. 9) may be used to attach the stand to the floor with screws (not supplied).

## Closing the Stand

From the side of the stand with two wheels, first pull out the orange knob at the end of the crossbar, as shown in Fig. 10, then reverse the steps described in “To Open the Stand,” page 13.

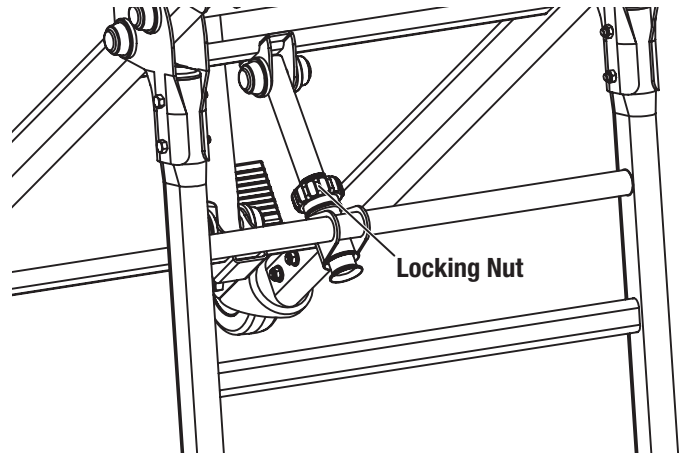


Fig. 8

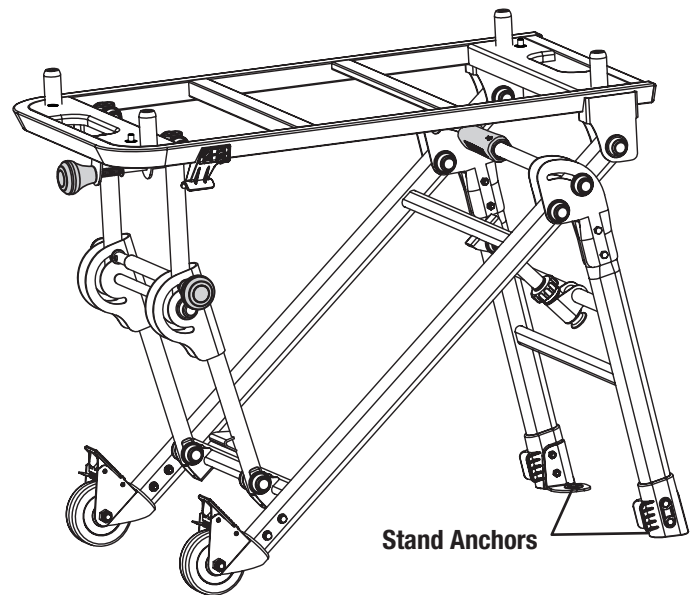


Fig. 9

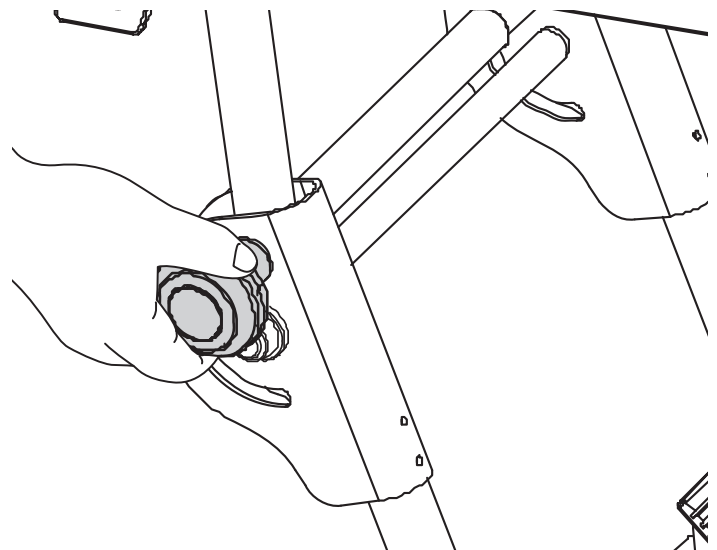


Fig. 10

# ASSEMBLY

## Installing the Motor Assembly

Position the motor assembly onto the frame assembly. Using the hex wrench supplied, first install and tighten the four bolts, then place the four bolt covers on the bolts (Fig. 11).

## Installing the Water Pump

1. Connect the end of the water hose to the water outlet on the water pump.
2. Locate the water-pump-positioning tabs in the water tray. With the water tray in place beneath the saw, position the water pump as shown in Fig. 12. Press the water pump in place to secure it to the water tray with the attached suction cups.
3. Connect the water-pump power cord to the receptacle on the saw, as shown in Fig. 13.

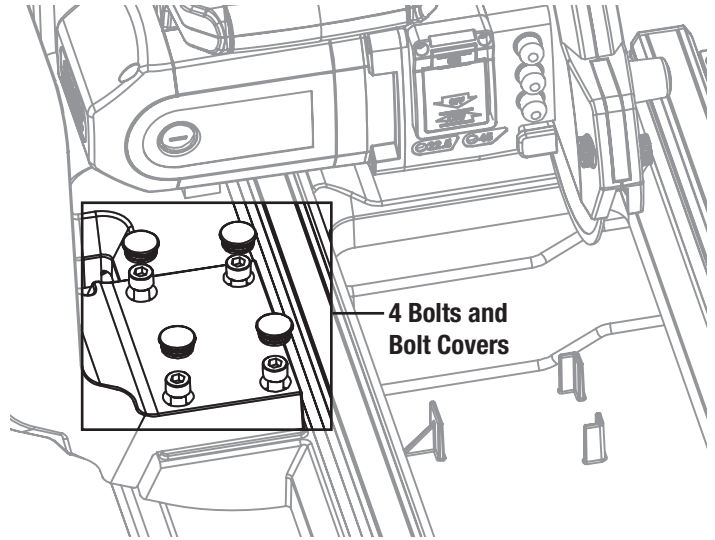


Fig. 11

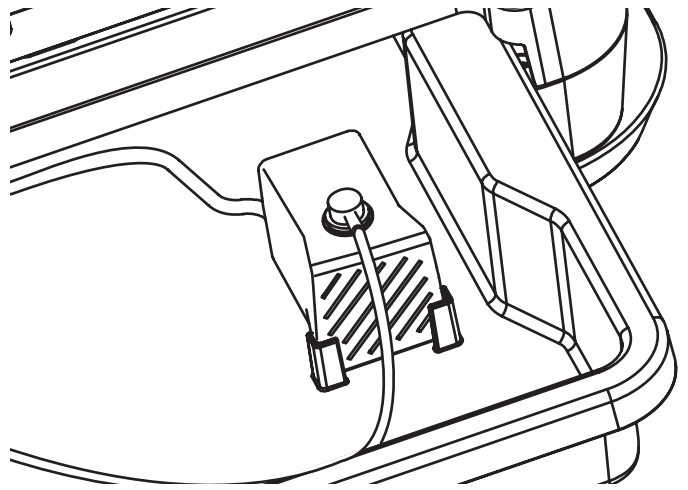


Fig. 12

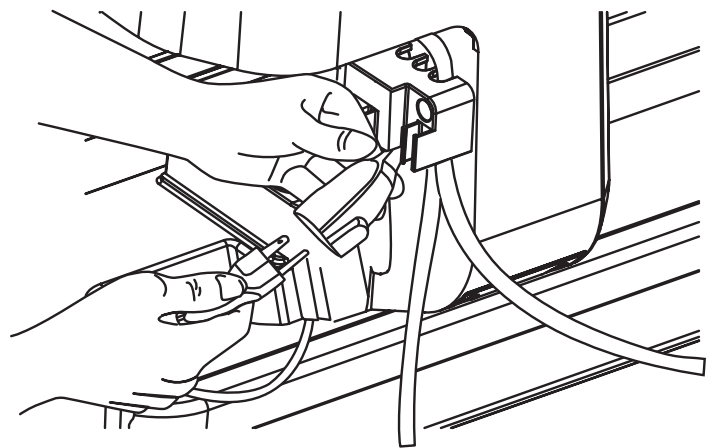


Fig. 13

# ASSEMBLY

## Installing the Water Pump, continued

4. Locate the 4 clips in the 2 grooves beneath the work table, close to the motor-mounting arm (Fig. 14). Use 2 clips to lock the water hose into one groove and 2 clips to lock the power cable into the other groove, as shown in Fig. 14.
5. Please refer to Fig. 15 for the “OFF” and “ON” positions of the water-hose valve.

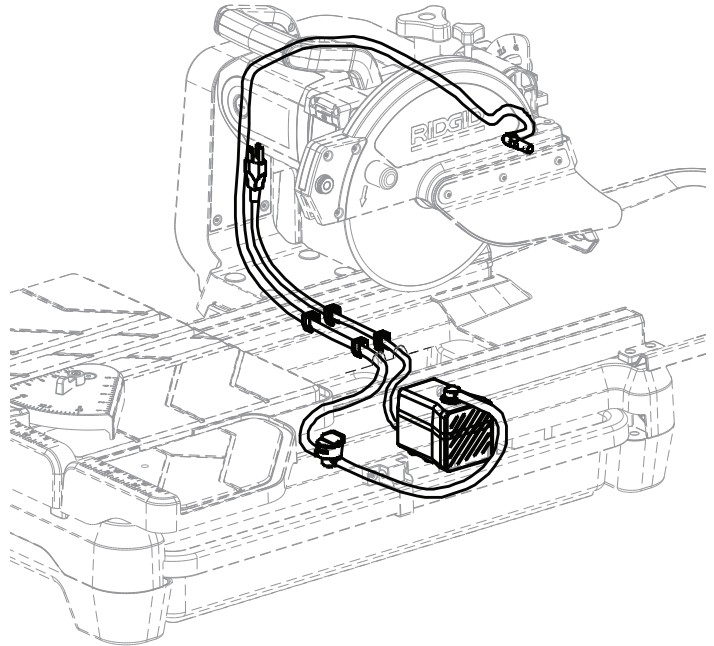


Fig. 14

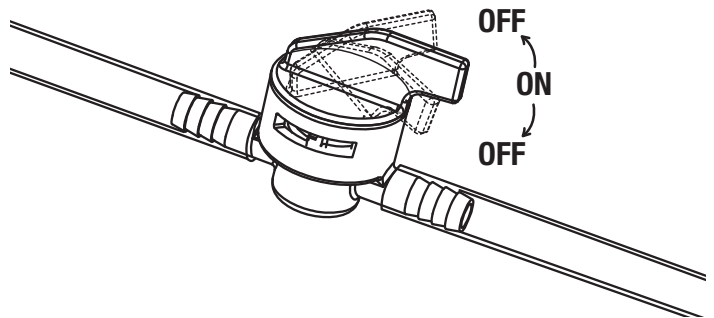


Fig. 15



# ASSEMBLY

## Mounting Your Saw

Before mounting the saw on the stand, make sure that both wheels on the stand are locked (Fig. 16).

Place the saw on the stand. Make sure that the motor housing is positioned above the wheels and that the four mounting holes of the saw-frame assembly are seated securely on the four pins on the top of the stand (Fig. 17).

Locate the two fastening screws on the saw frame. Tighten the two knobs attached to the stand on opposite corners to securely fasten the saw to the stand (Fig. 18).

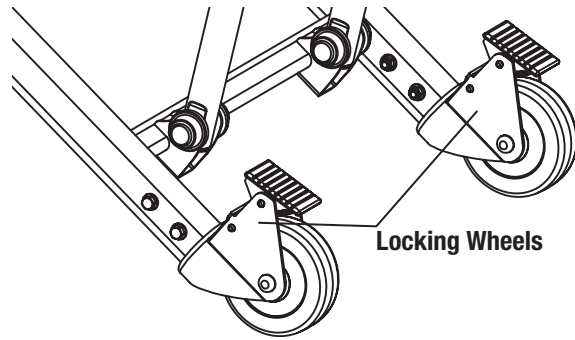


Fig. 16

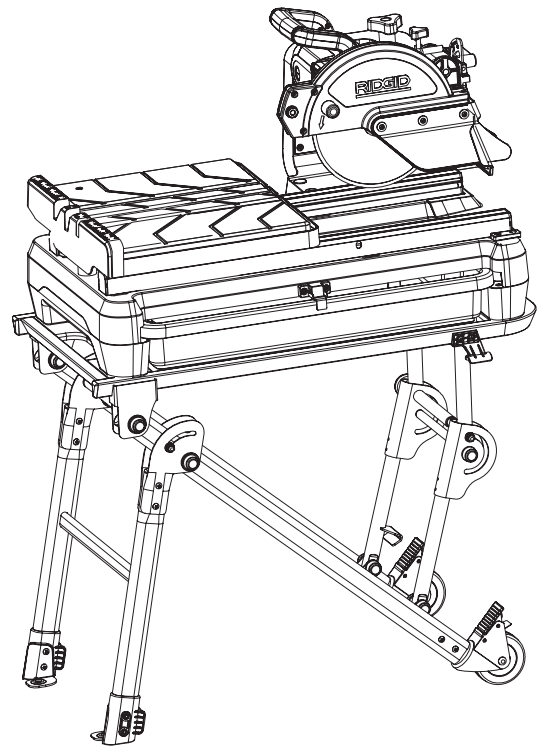


Fig. 17

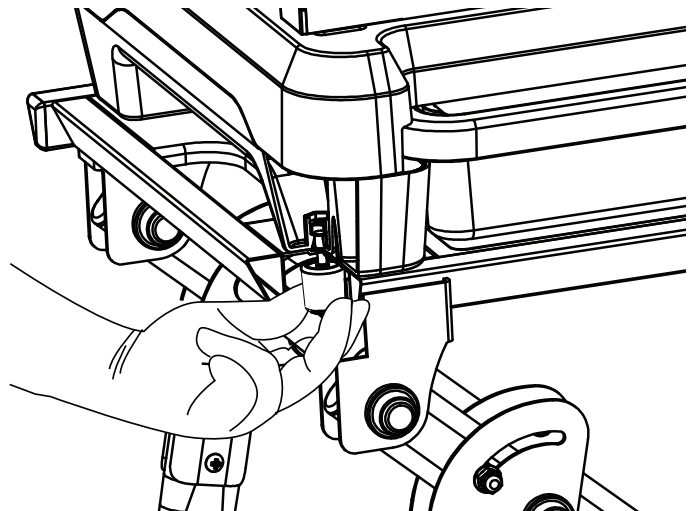


Fig. 18

# ASSEMBLY

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## Installing the Extension Table

Insert the pins of the extension table into the holes of the work table as shown in Fig. 19. Make sure that the extension table is securely in place.

## Installing the Extension Water Tray

Insert the extension water tray into the two latches at the end of the rails until it locks into place (Fig. 20).

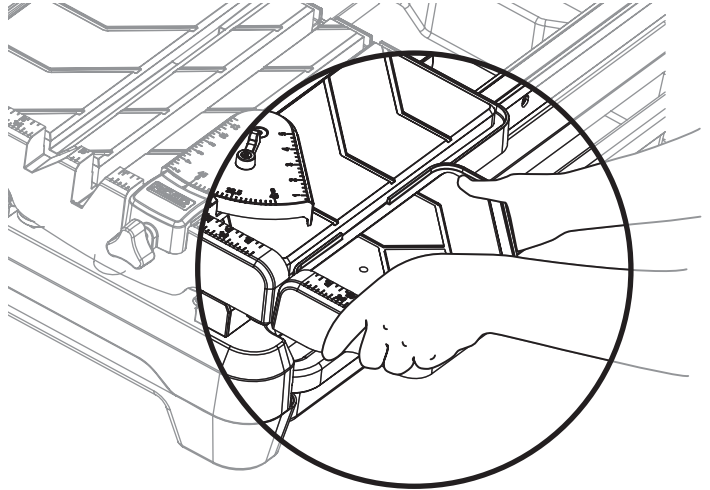


Fig. 19

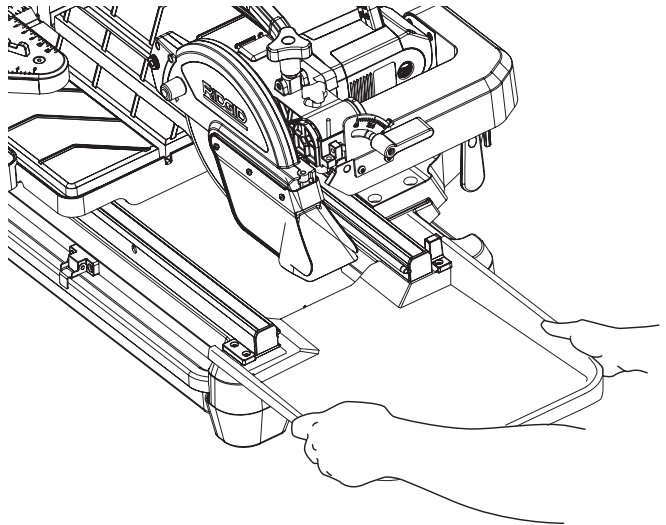


Fig. 20

# ASSEMBLY

## Installing the Saw Blade

1. Loosen the blade guard release knob (Fig. 21).
2. To open the blade guard, press the spindle lock with one hand, and, with the other hand, use the nut wrench (supplied) to turn the shaft nut counterclockwise (Fig. 22).
3. Remove the motor-shaft nut and the outer flange. Leave the inner flange on the blade shaft (Fig. 23).

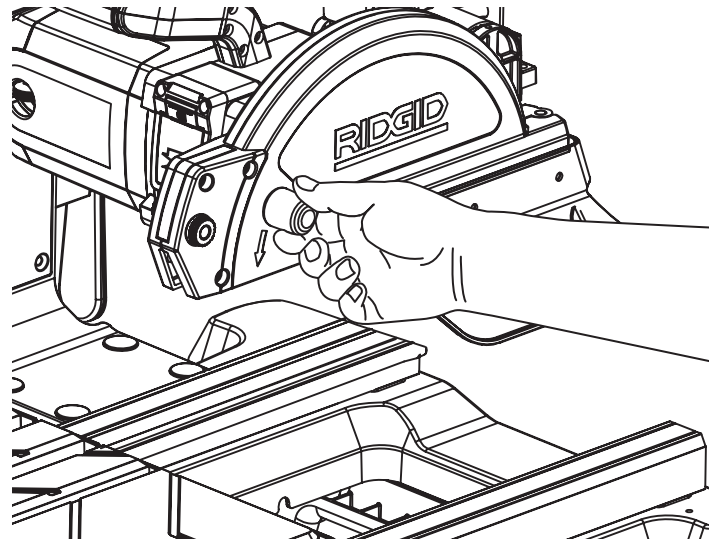
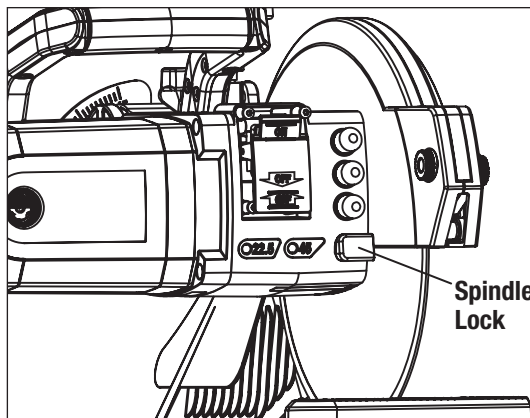


Fig. 21



Spindle Lock

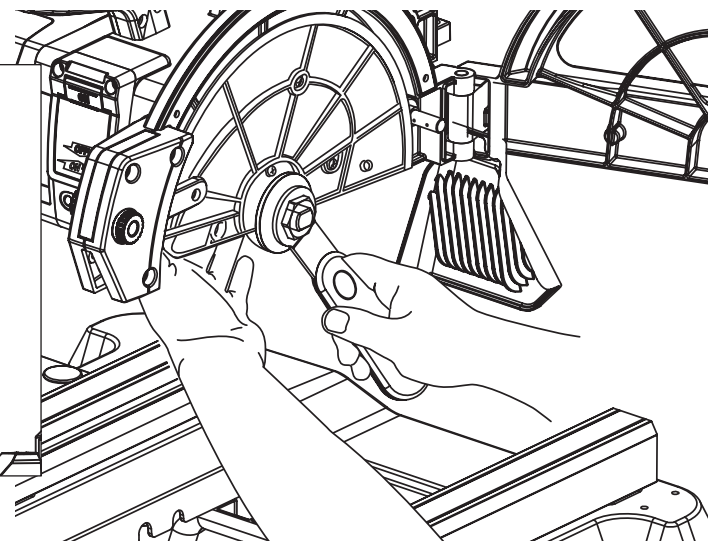


Fig. 22

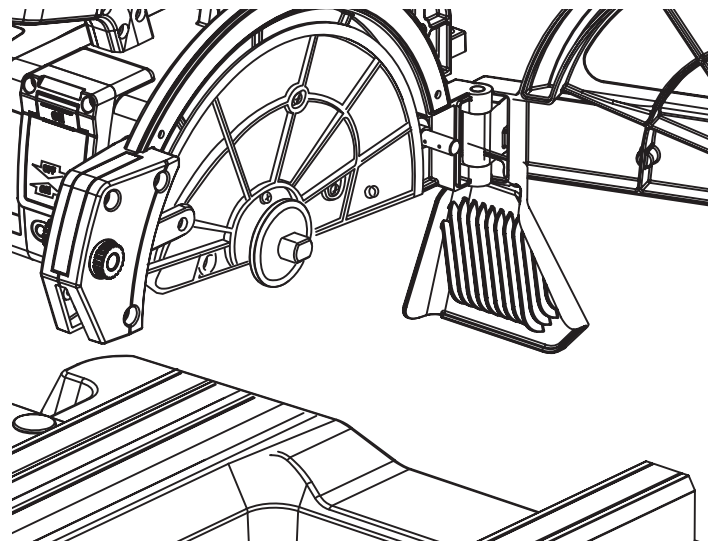


Fig. 23

# ASSEMBLY

## Installing the Saw Blade, continued

4. Fit the blade onto the motor shaft. Replace the outer flange and the motor-shaft nut.

**⚠ CAUTION:**  
Make sure that the arrow on the blade points in the same direction as the arrow marked on the blade guard.

5. Press the spindle lock, while securely tightening the motor-shaft nut on the motor shaft with the wrench supplied (Fig. 24).
6. Close the blade guard, and tighten the blade guard release knob (Fig. 25).

**⚠ CAUTION:**  
To avoid damaging the blade guard when opening the guard, do not open the blade guard beyond 90°.

## Installing the Universal Guide

Slide the universal guide onto the worktable fence. Tighten the universal-guide screw to secure it. (Fig. 26)

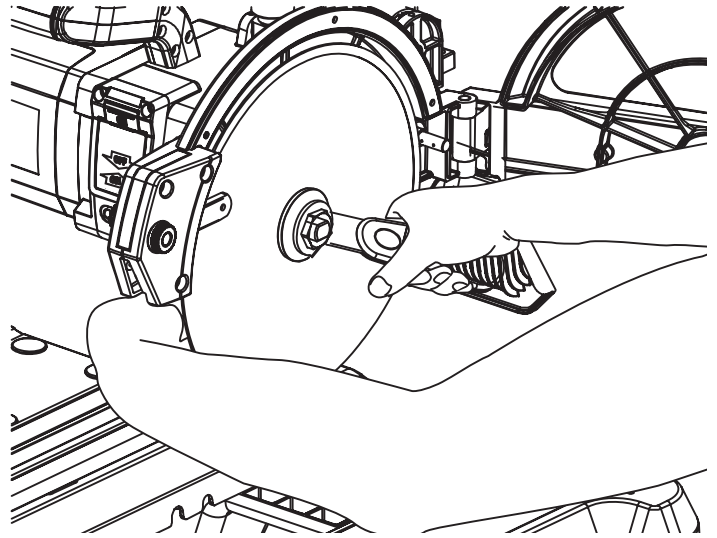


Fig. 24

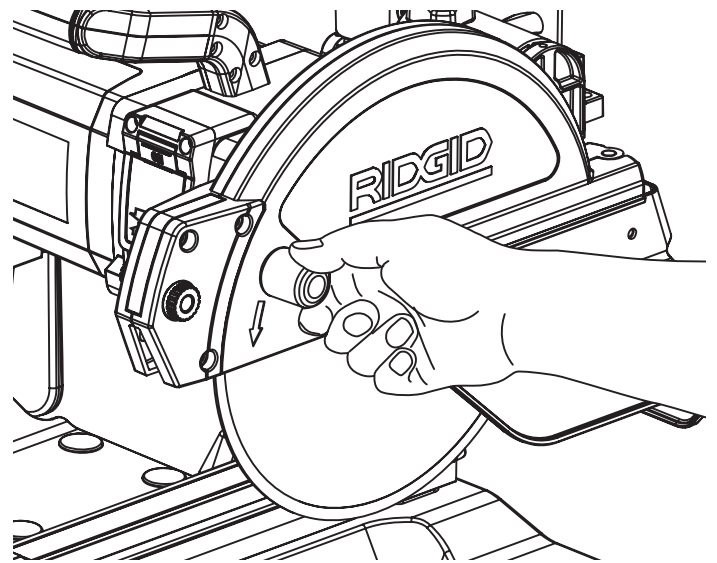


Fig. 25

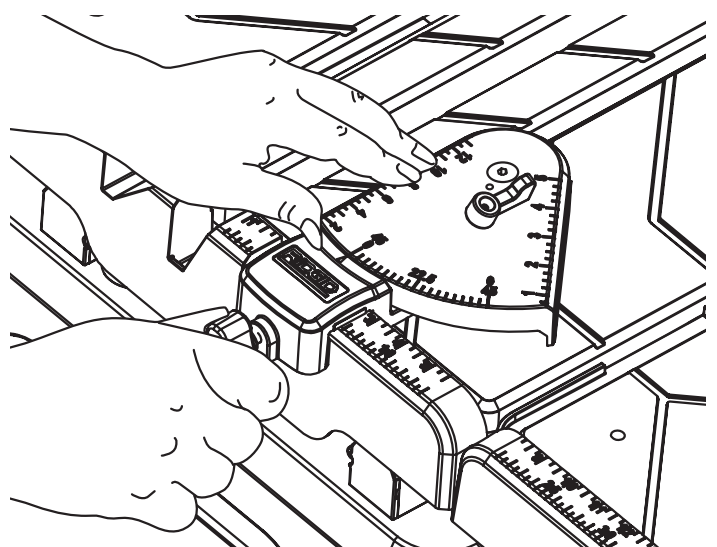
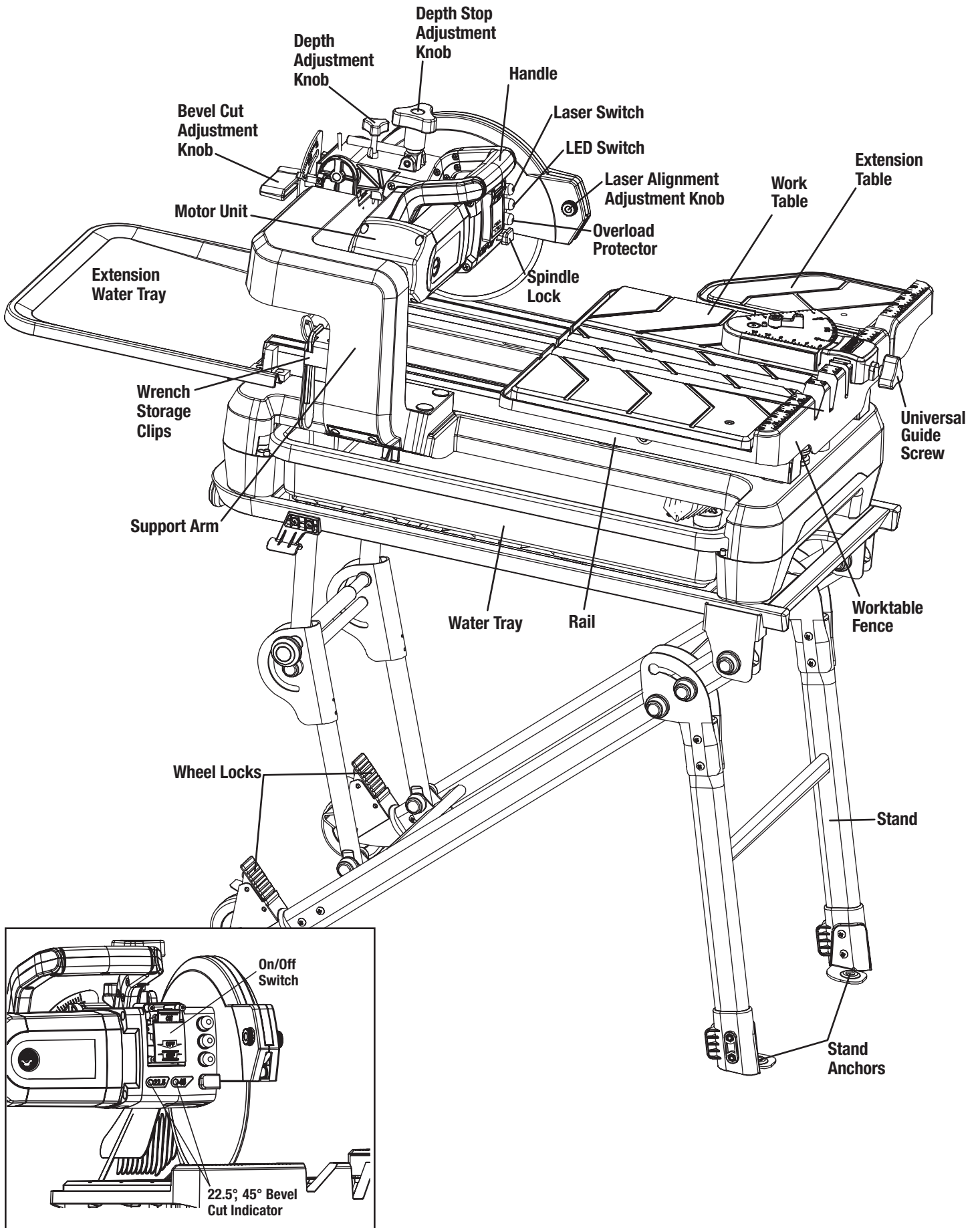


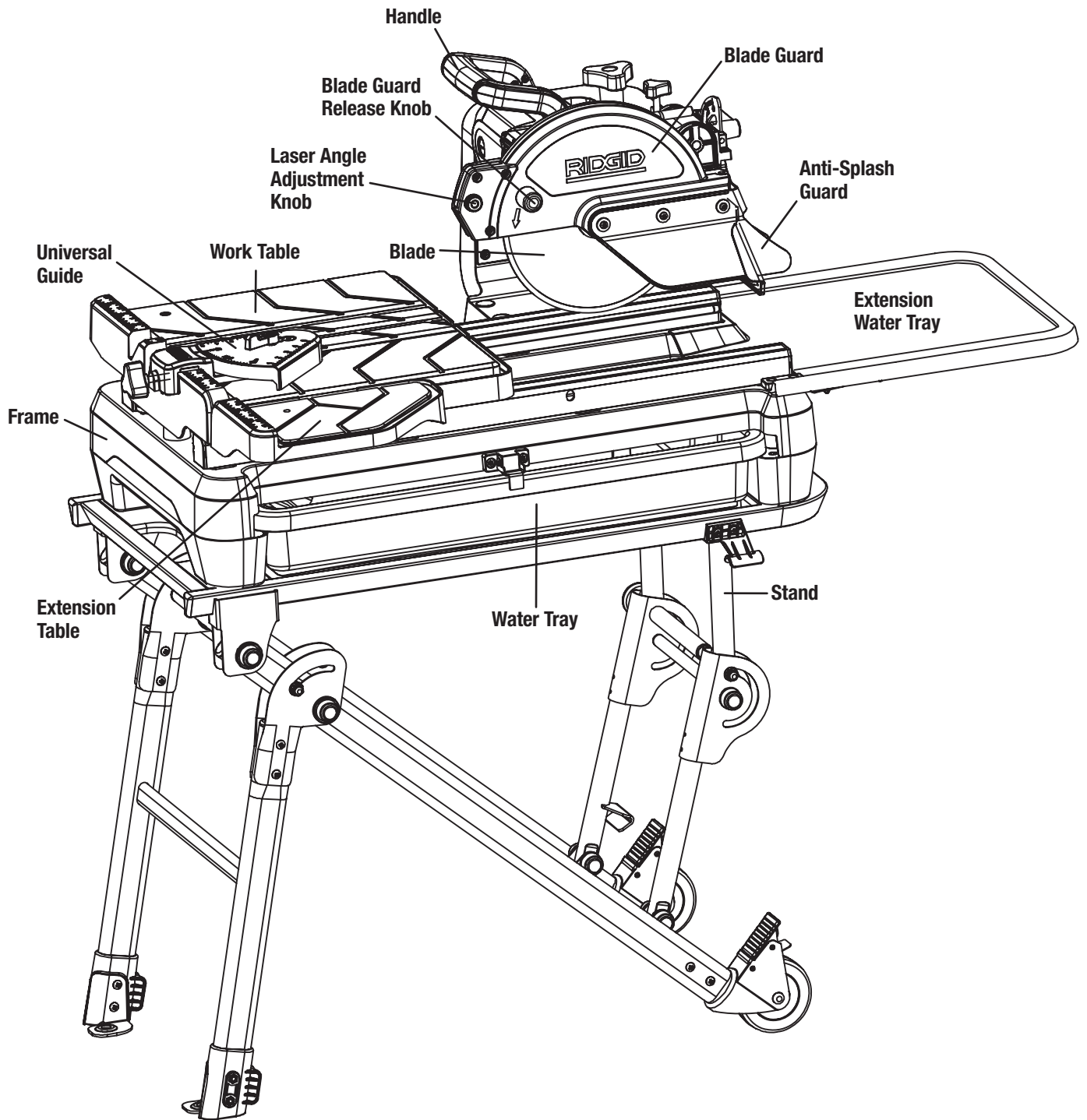
Fig. 26

# GETTING TO KNOW YOUR WET TILE/STONE SAW



# GETTING TO KNOW YOUR WET TILE/STONE SAW

---



# GETTING TO KNOW YOUR WET TILE/STONE SAW

## ON/OFF Switch (Fig. 27)

### ▲ WARNING:

Before turning the switch “ON,” make sure that the blade is correctly installed and operating properly.

- a) Lift the switch to turn the saw on. After turning the switch ON, always allow the blade to come up to full speed before cutting. Do not rapidly cycle the motor switch on and off, as this may cause the saw blade to loosen. If this occurs, allow the saw blade to come to a complete stop, and retighten the shaft nut, taking care to not over-tighten the nut. Never leave the saw while the power is “ON.”

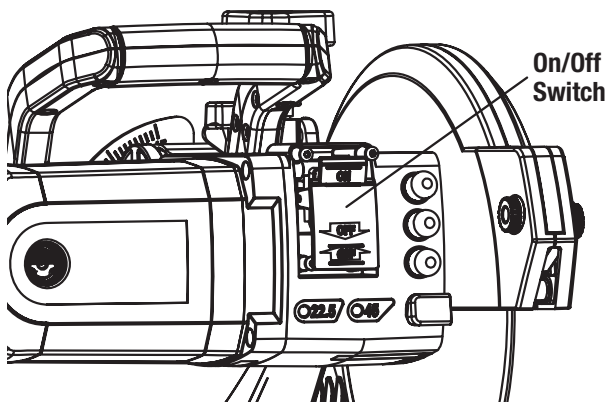


Fig. 27

- b) To turn saw OFF, press the switch down. Never leave the saw until the cutting blade has come to a complete stop.

## Blade Guard

The blade guard is a safety device. It can be opened or closed by turning the knob on the blade guard. Make sure that the blade guard is locked before cutting.

## Laser Switch

To turn on the laser beam, press the laser switch; to turn off the laser, press the switch again. Always turn off the laser beam when you finish cutting.

## LED Switch

To turn on the LED lights, press the LED switch; to turn off the LED lights, press the switch again. The LED lights help to illuminate your work.

## Overload Protector Switch

Please read “Motor Overload Protector” in the “Motor Specification and Electrical Requirements” section.

## Laser-Beam Adjustment Knob

Align the laser beam with the cutting line by adjusting one or both adjustment knobs on the sides of the blade guide. Please see the Laser Beam Calibration in the Adjustments section of this manual.

## Spindle Lock

Press the spindle lock to keep the shaft from rotating while changing the saw blade.

## Blade

To install and change the blade, see “Installing Saw Blade” on page 19 of this manual.

## Extension Table

Attaches to the work table to support large work pieces.

## Universal Guide

Read “Universal Guide Adjustment” on page 27 of this manual.

## Table Lock

Lock the work table in one of two positions with the table lock. Press the table lock, and the work table can move freely along the rails. Move the work table to one of the two locking positions, and pull out the table lock to insert the locking pin into one of the holes: the work table is locked in position on the rails. (Fig. 28)

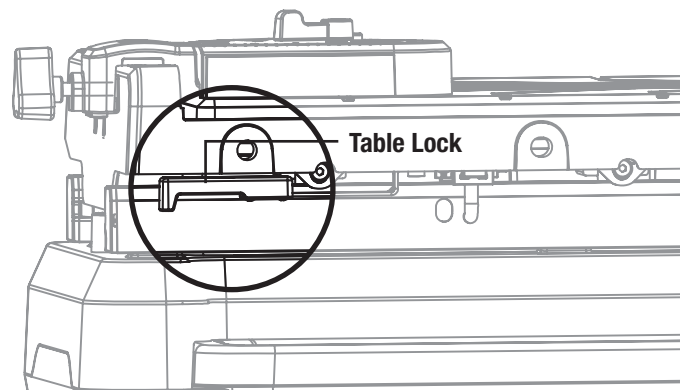


Fig. 28

## Work Table

The work platform can be moved along the rails.

## Rails

The work table is moved along the two rails when cutting a work piece.

## Frame

The base of the tile saw.

## Water Tray

Holds the water needed to cool the blade. Read “Filling The Water Tray” in the “Operation” section of this manual.

## Stand

May be used to support the tile saw. The stand can be fixed in place with the two mounting holes and two screws (not supplied). The two wheels aid in moving the stand; please see “Moving the Saw” on page 34 of this manual.

# GETTING TO KNOW YOUR WET TILE/STONE SAW

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## **22.5°/45° Bevel-Cut Indicator**

Lights that indicate that the saw is positioned for a 22.5° or 45° bevel cut.

## **Anti-Splash Guard**

Minimizes the over-spray and mist when cutting a work piece.

## **Wrench Storage Clips**

Conveniently holds the nut wrench and hex wrench when they are not in use.

## **Extension Water Tray**

Catches over-spray from large tile and redirects water into the water tray.

## **Support Arm**

Supports the motor unit on the frame.

## **Motor Unit**

Powers the tile saw.

## **Bevel-Cut Adjustment Knob**

To adjust the angle of the saw blade for a bevel cut, please read "Bevel Cut Adjustment" on page 26.

## **Handle**

For raising or lowering the saw unit.

## **Depth-Adjustment Knob**

Please read "Depth Adjustment" on page 25.

## **Depth-Stop-Adjustment Knob**

Please read "Depth Stop Adjustment" on page 25.

## **Work-Table Fence**

Includes scale rules.

## **Wheel Locks**

Used to stop the stand from rolling.

## **Stand Anchors**

May be used to fix the stand to the floor.

## **Laser Adjustment Knob**

Align the laser beam with the cutting line by adjusting one or both adjustment knobs on the sides of the blade guide. Please see Laser Beam Calibration on page 28.

## **Blade-Guard Release Knob**

Please see Installing the Saw Blade on page 19.

---

## **⚠ WARNING!**

**The use of any accessory or attachment or the performance of any operation with this tool other than those recommend in this instruction manual may present a risk of personal injury.**

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## **Technical Specifications**

Power Supply	120V~, 60Hz
Motor Capacity	15A
No-Load Speed	4200 RPM
Diamond Blade Size	10" x 5/64" x 5/8"
Maximum Tile Depth of Cut at 0°	3-3/4"
Tilting Range	0°, 22.5°, 45°
Maximum Rip Cut	24" Square
Maximum Diagonal Cut	18" Square Tile



# ADJUSTMENTS

## ⚠ WARNING:

For your own safety, turn the switch to "OFF" and remove the plug from the power-source outlet before making any adjustment.

### Depth Adjustment (Fig. 29)

Use the depth-adjustment knob to adjust the lowest position of the blade:

1. Loosen the depth-stop-adjustment knob and the locking nut (located under the depth-adjustment knob).
2. Use the handle to lower the cutting head to its lowest position.
3. Turn the depth-adjustment knob to raise or lower the lowest position of the blade.
4. Tighten the locking nut.
5. Tighten the depth-stop-adjustment knob.

To cut all the way through the work piece, make sure that the lowest position of the blade is  $3/16"$  (5 mm) below the surface of the work table (Fig. 30).

### Depth-Stop Adjustment (Fig. 31)

The depth-stop-adjustment knob is used to lock the cutting head in position.

1. Loosen the depth-stop adjustment knob.
2. Hold the handle to raise or lower the saw blade to the desired position.
3. Turn the knob to lock the cutting head in place.

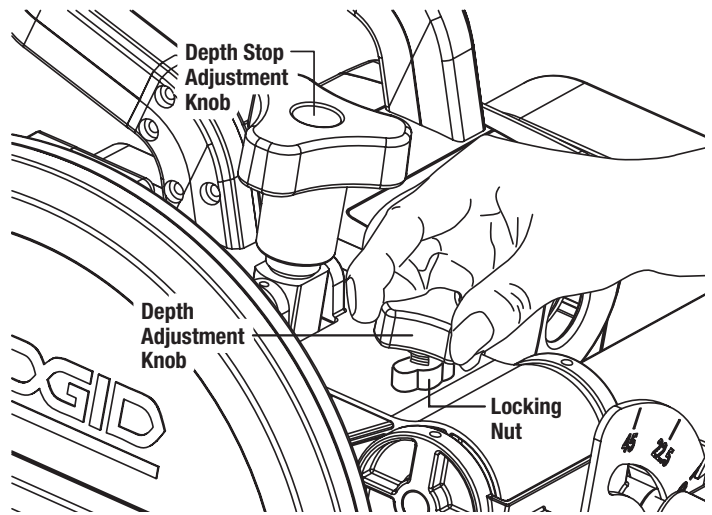


Fig. 29

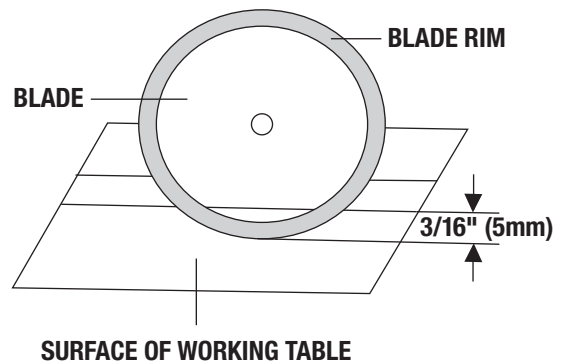


Fig. 30

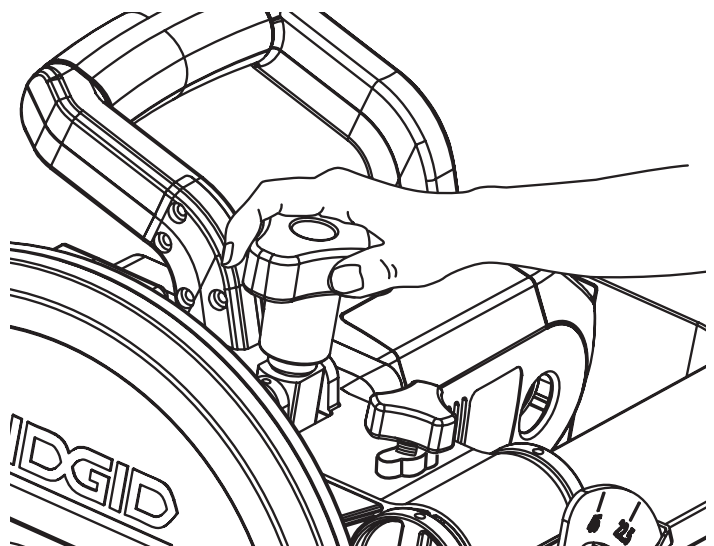


Fig. 31

# ADJUSTMENTS

## Bevel Cut Adjustment (Fig. 32)

The saw is adjustable to three bevel angles: 0°, 22.5°, and 45°. The three grooves in the work table accommodate the three bevel-cut positions. When tilting the saw to 22.5° or 45°, the 22.5°/45° bevel indicator will be turned on.

1. Loosen the bevel-cut-adjustment knob in the rear of the saw.
2. Tilt the saw to the desired angle (0°, 22.5° or 45°). Tighten the bevel-cut-adjustment knob.

## Work Table Stop/Go Adjustment (Fig. 33)

**CAUTION:**  
Make sure the “Stop/Go” knob is in the “STOP” position before operating, moving, or transporting the saw.

Turn the knob to the “GO” position, and the work table can be slid off the rails for transport or storage. Turn the knob to the “STOP” position, and the work table cannot be moved off of the rails.

**WARNING:**  
To avoid injury, take care when removing the work table from the rails.

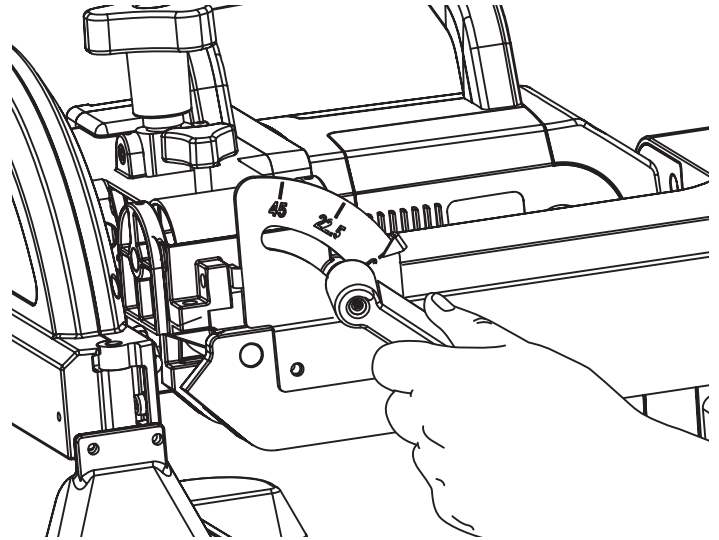
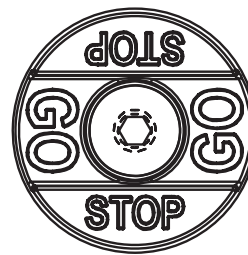
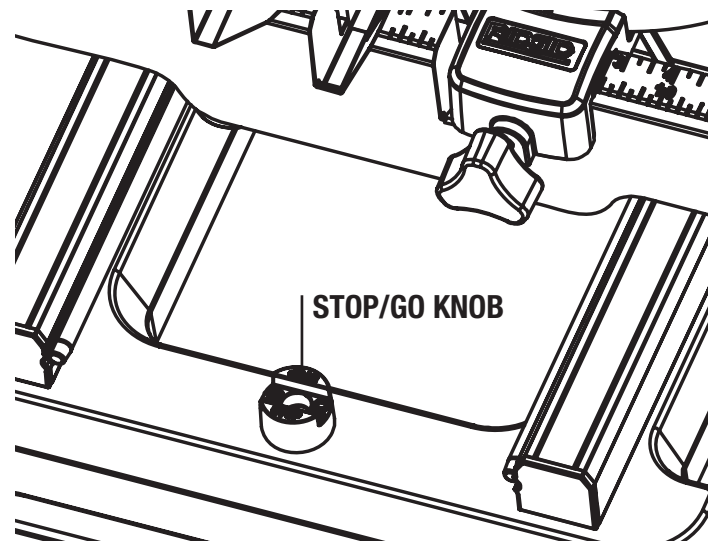
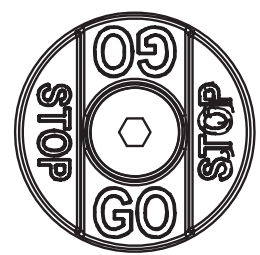


Fig. 32



Stop Position



Go Position

Fig. 33

# ADJUSTMENTS

## Universal Guide Adjustment

The universal guide can be used as a rip fence or an angle guide. The universal guide has three positive stops: 0°, 22.5° and 45°.

To adjust the universal guide:

1. Loosen the lever on the universal guide.
2. Adjust the universal guide so that the desired angle (0° - 45°) aligns with the indicator arrow (Fig. 34). Tighten the lever to lock the universal guide at the desired angle.

For straight cutting, the universal guide is used as rip fence (Fig. 35).

1. Set the angle to 45°.
2. Loosen the universal-guide screw and position the guide to the desired distance from the saw blade.

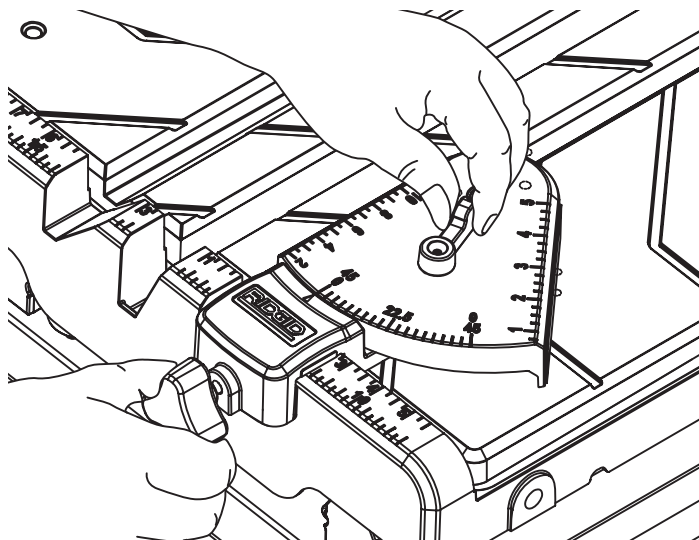


Fig. 34

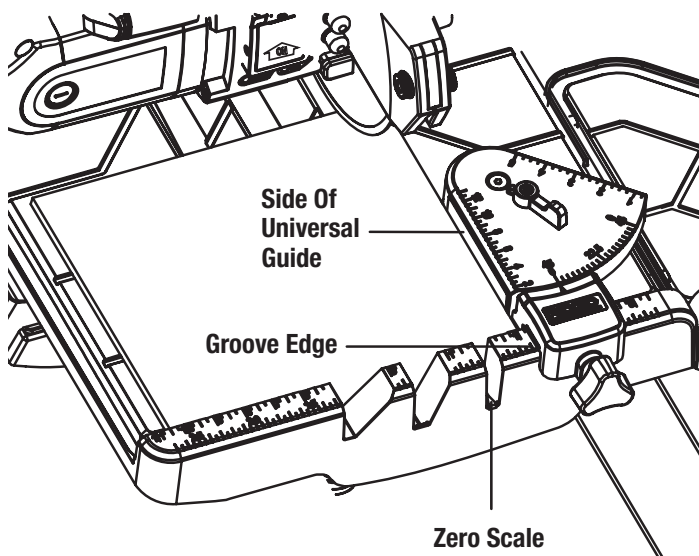


Fig. 35

# ADJUSTMENTS

## Laser Beam Calibration

Press the laser switch to turn on the laser (Fig. 36).

To adjust the alignment and angle of the laser beam, turn the right knob (Laser ANGLE Adjustment) and the left knob (Laser ALIGNMENT Adjustment) alternately until the laser beam goes across the two ▲ marks engraved in the slot of the work table (Fig. 37, Fig. 38).

**⚠ WARNING:**  
**DO NOT stare directly at the laser beam. Never aim the light at any person or at any object other than the work piece.**

**NOTE:** If you want to use laser as a cutting guide, make sure that the laser beam is aligned with the cutting line.

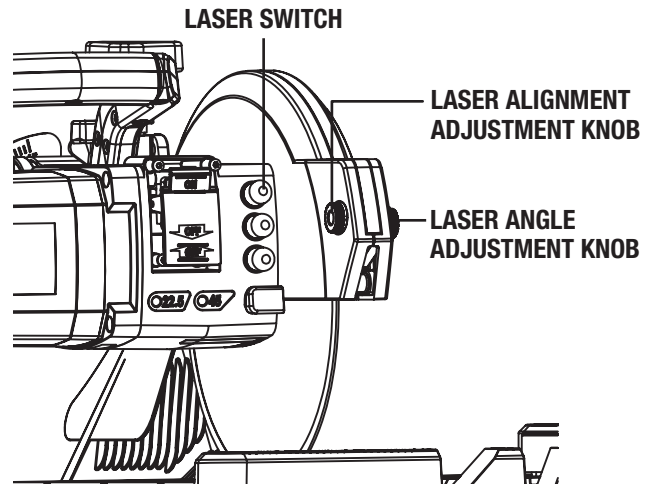


Fig. 36

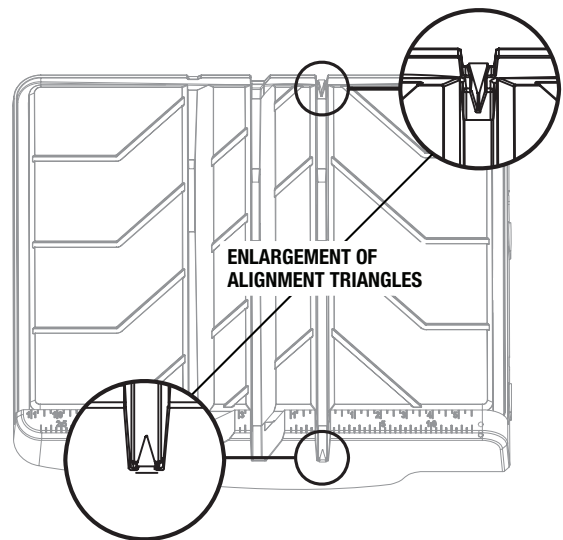


Fig. 37

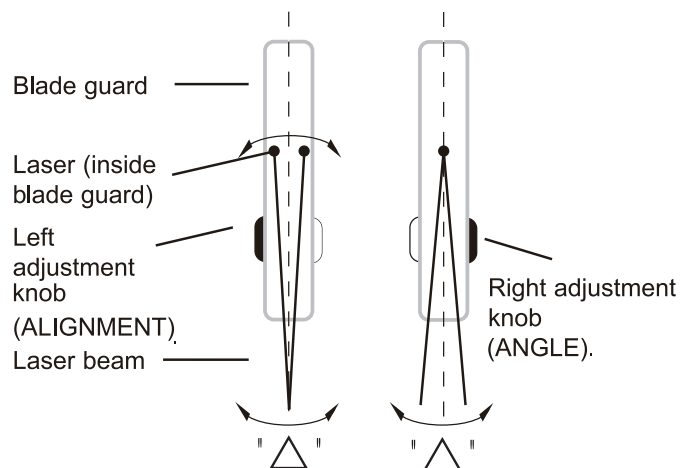


Fig. 38

# ADJUSTMENTS

## Rail Adjustment

**NOTE:** The saw has been calibrated by the manufacturer. The following adjustment steps are to be used only when necessary.

1. Turn off the saw. Remove the two end covers (1) at the ends of the rails from the end of the rails. Remove the two top covers (2) of the rails by sliding them out from the top of the rails (Fig. 39).
2. Loosen the four screws (3) inside each rail so that the rails may be adjusted.
3. Use a slide caliper or straight ruler to measure the distance between the two rails at one end of the rails. Make sure that the distance is 320mm, and then slightly tighten the screw at that end of each rail. Follow the same procedure at the other ends of the rails to adjust the distance between the rails to 320mm, and slightly tighten the screw at that end of each rail (Fig. 40).
4. Place a 90° framing square on the working table against working-table fence (Fig. 41).
5. Push the working table with the square along the saw blade to determine if the gap between the framing square and blade is consistent along the length of the stroke.
6. If the gap is consistent, firmly secure all eight fixing screws (3). If not, repeat the adjustment steps above until the gap is consistent.

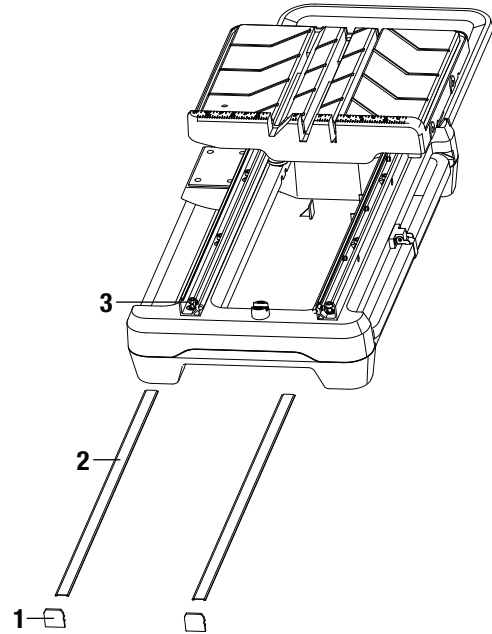


Fig. 39

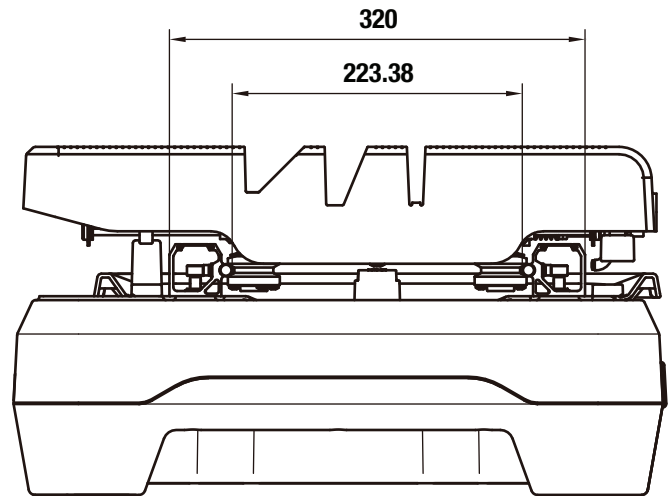


Fig. 40

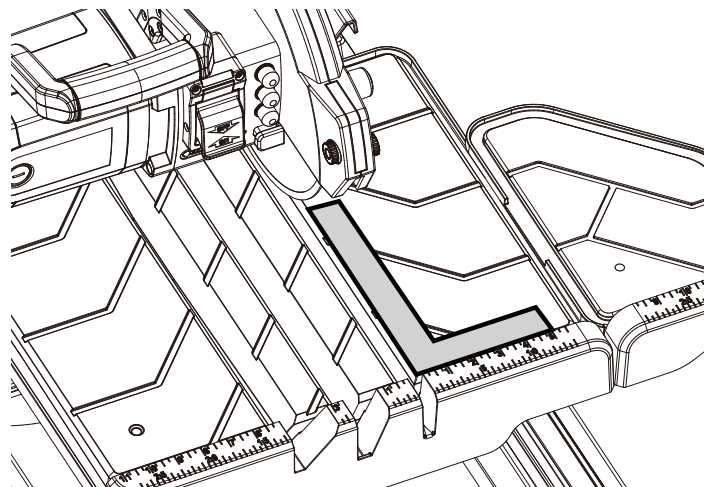


Fig. 41

# OPERATION

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## **⚠ WARNING:**

**For your own safety, read and always observe all safety precautions listed in operator's manual and on saw.**

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## **Safety Instructions for Basic Operations**

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### **⚠ WARNING:**

**Don't allow familiarity (gained from frequent use of your tile saw) to cause a careless mistake. Always remember that a careless fraction of a second is enough to cause a severe injury.**

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- Never put your fingers or hands in the path of the saw blade or other cutting tool.
- Never reach behind the cutting tool with either hand for any reason. Do not reach behind the blade to hold down the work piece, support the work piece, remove scraps, or for any other reason.
- Never use a hand position where a sudden slip could cause the fingers or the hand to move into a saw blade.

### **Before Each Use Inspect Your Saw**

- With the machine disconnected from the power supply, rotate the blade by hand to make sure that it moves freely.
- Make sure that the switch is in the OFF position before plugging the saw into an electrical receptacle.
- If any part is missing, bent, or broken in any way, or any electrical part does not work properly, turn the saw off and unplug the saw.
- If the cutting blade is damaged, replace it before operating the saw.
- Always check for and remove all keys, adjusting wrenches, and other tools from the work table before turning on the saw.
- Make sure that all clamps, fasteners, and locks are tight and that no parts have excessive play.
- Keep guards in place and in working order.
- Check for damaged parts. Before further use of the tool, any part that is damaged should be carefully checked to make sure that it would operate properly and perform its intended function. Check for proper alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect the tool's operation. A guard or other part that is damaged should be properly repaired or replaced.
- Always keep the blade-securing arbor and collars clean.
- Make sure that the blade-securing bolt is securely tightened with the wrench provided.

- Use the anti-splash rubber guard for every operation for which it can be used.
- Check that the directional arrow marked on the blade corresponds with the rotational direction of the motor as marked on the blade guard.
- Disconnect power to the saw before servicing, when changing cutting blade, and cleaning.

### **Whenever the Saw Blade Is Spinning**

- Let the saw blade run freely for a few seconds before cutting a tile piece. If the saw blade makes an unfamiliar noise or vibrates excessively, switch the saw off immediately and disconnect it from the power supply. Investigate the cause or consult the customer service department for advice. Do not restart the saw until finding and correcting the problem.
- Always feed work into the blade against the direction of rotation of the blade.
- Keep children away. All visitors should be kept safe distance from the work area.

### **Don't Force the Tool**

- Let the blade reach full speed before starting to cut.
- The saw will do a better job and be safer when it is used at the rate for which it was designed.

### **Before Leaving the Saw**

- Turn the saw off.
- Wait for blade to stop spinning.
- Unplug the saw.
- Always make the workshop childproof. Disconnect master switches.

### **To Reduce the Risk of Injury From Jams, Slips or Thrown Pieces**

#### **Inspect Your Blade**

- Choose the right blade for the material and the type of cutting you plan to do.
- Choose and inspect your blade with care.
- To reduce the risk of cutting-tool failure and thrown pieces of broken blade, use only 10" or 8" wet blades that are marked for speeds of 5000 rpm or higher.
- Always use unbroken, balanced blades that are designed to fit this saw's 5/8-inch arbor.
- Do not over-tighten the arbor nut. Use the arbor wrench to tighten it securely.
- Use the tool only with smooth-edge cutting blades free of teeth and grooves.

# OPERATION

## Inspect Your Workplace

- Inspect your work area, and keep it clean and safe. Cluttered areas and benches invite accidents.
- Avoid slippery floors, whether from floor waxes or spills.
- Never use the saw near flammable liquids, vapors or gases.
- Do not do layout, assembly, or setup work on the table while the blade is spinning

## Plan the Way You Will Push the Work Piece Through.

- Set the cutting tool as low as possible for the cut you're planning
- Push the work piece against the rotation of the blade. Never feed material into the cutting tool from the rear of the saw.
- Make sure that the off-cut (piece of tile that will be cut off) has enough room to move sideways. Failure to do so may result in the off-cut binding against the blade.
- When cutting irregularly shaped work pieces, plan your work so it will not slip.
- Don't overreach. Keep proper footing and balance at all times.
- Always push the work piece all the way past the saw blade.

## Plan Your Cut

- Never cut freehand. Always use either a rip fence or a fixture to position and guide the work so that it won't twist or bind on the blade.
- Keep the table and surrounding area clear, except for the tile to be cut.
- Use extra caution with large, very small, or awkward work pieces.
- Never cut more than one tile at a time.
- Never turn your tile saw "ON" before clearing everything except the work piece and related support devices off of the table.
- Never cut pieces too small to be held securely against the rip fence while leaving enough space for the hands to be a safe distance from the blade.
- Never allow the blade to run dry. Failure to keep the water tray topped off will result in possible over-heating of the diamond blade.

## Filling and Draining the Water Tray

### ▲ CAUTION!

Having too little cooling water in the water tray may damage the saw blade. Never turn on the machine or plug in the water pump unless the water level reaches the lowest scale marked on the water tray.

1. Insert the water plug into the hole of the water tray.
2. Pour five gallons water into the water tray.
3. Secure the water tray lock (Fig. 42).
4. To insure proper operation, make sure that the water level in the water tray is at least as high as the lowest scale marked on the water tray.
5. Do not add chemicals or detergents to the water.

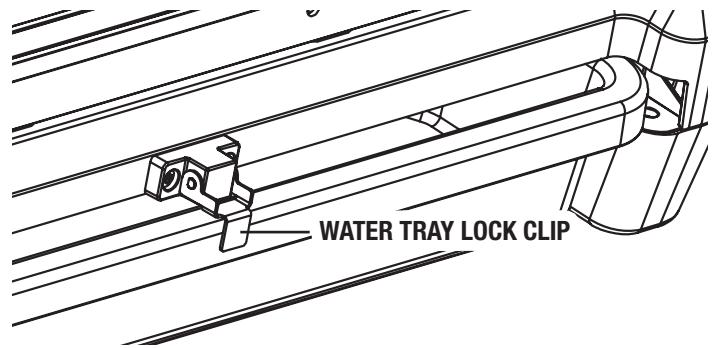


Fig. 42

To drain the water:

1. Loosen the lock clip.
2. Pull out the water tray approximately 5 inches.
3. Place a five-gallon bucket beneath the water plug.
4. Remove the water plug
5. Allow the water to flow into the bucket.

Or, you can remove the water pump from the water tray, loosen the lock clip, remove the water tray, and pour the water out.

## Power Supply

Power tool plugs must match the outlet.

### ▲ WARNING:

Test before each use.

1. Plug ground-fault-circuit-interruptor (GFCI) into a power outlet: the indicator should turn on (Fig. 43).
2. Press the test button: the indicator should turn off.
3. Press the reset button again for use. Do not use if the above test fails.

This device does not protect against electrical shock due to contact with short circuits or faulty wiring in the power supply.

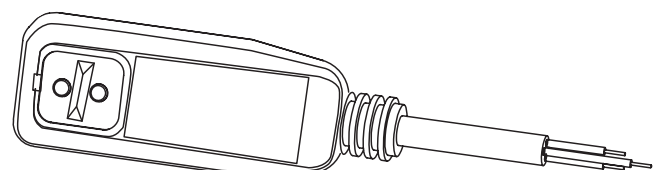


Fig. 43

# OPERATION

## Cutting Tile and Stone

### ▲ WARNING:

Do not attempt to cut pieces too small to allow for safe handling. Avoid awkward hand positions where a sudden slip could cause your hand or finger to come in contact with the blade. When cutting any material, make sure that it is fully supported and that the work piece is held firmly.

### ▲ CAUTION:

Make sure that the knob on the blade guard and the bevel-cut adjustment knob are tightened before operating the saw.

### ▲ CAUTION:

Make sure the “Stop/Go” knob is in “STOP” position before operation.

### ▲ CAUTION:

To avoid cutting into the work table, make sure that the lowest position of the blade is less than 9/16” (15mm) below the surface of work table.

### Straight Cut

1. Position the tile on the work table, pressed against the work-table fence.
2. To use the laser, first calibrate the laser beam as described in “Laser Beam Calibration” on page 28, and make sure that the laser beam is aligned with the cutting line.
3. Adjust the universal guide to the desired distance from the blade. Use the scale rules on the work-table fence for reference.
4. Lift the ON/OFF switch to turn the saw on.
5. Wait until the blade has come up to speed and is thoroughly wet.
6. Ease the work table towards the blade to slowly feed the tile into the blade. Continue pushing until the blade cuts completely through the tile (Fig. 44).
7. Turn off the saw, pull the work table back, and remove the cut pieces and any debris.

### Flat 0°- 45° Angle Cut

1. Position the tile on the work table, pressed against the work-table fence.
2. To use the laser, first calibrate the laser beam as described in “Laser Beam Calibration” on page 28 and make sure that the laser beam is aligned with the cutting line.
3. Adjust the universal guide to the desired angle as described in the “Universal Guide Adjustment” on page 27. Make sure that the tile rests against the universal guide.
4. Adjust the universal guide to the desired distance from the blade. Use the scale rules on the work-table fence for reference.
5. Lift the ON/OFF switch to turn the saw on.
6. Wait until the blade has come up to speed and is thoroughly wet.
7. Ease the work table towards the blade to slowly feed the tile into the blade. Continue pushing until the blade cuts completely through the tile (Fig. 45).
8. Turn off the saw, pull the work table back, and remove the cut pieces and any debris.

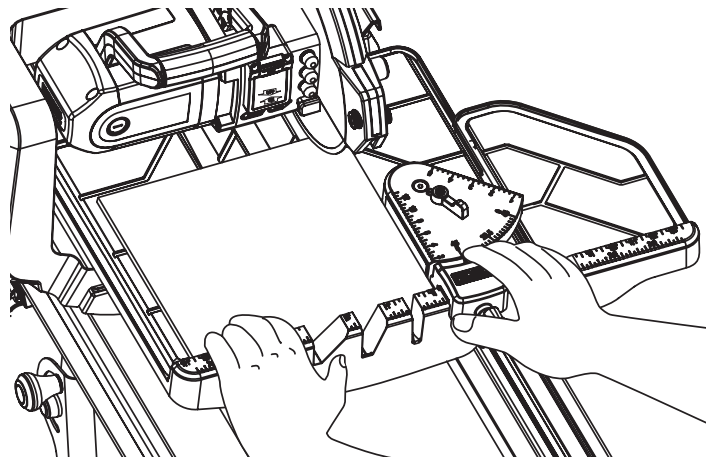


Fig. 44

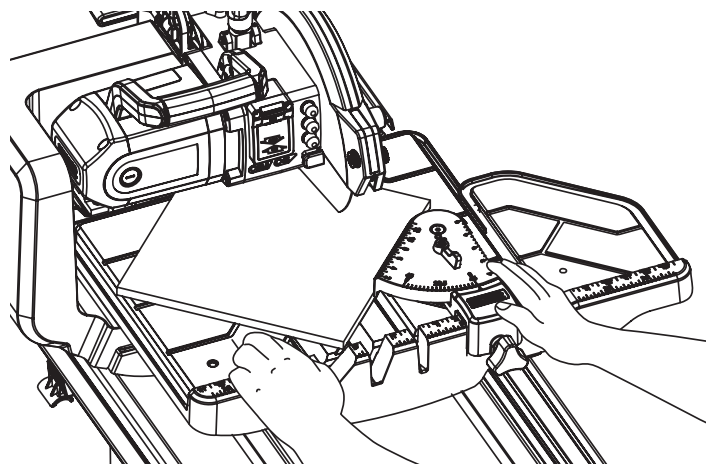


Fig. 45



# OPERATION

## Bevel Cut (Fig. 41)

### **▲ WARNING:**

The saw is adjustable to only three positions (0°, 22.5° or 45°). Any other bevel cut will cut into the work table.

1. Adjust bevel cut as described in the “Bevel Cut Adjustment” on page 26.
2. Position the tile on the work table, pressed against the work-table fence.
3. To use the laser, first calibrate the laser beam as described in “Laser Beam Calibration” on page 28, and make sure that the laser beam is aligned with the cutting line.
4. Adjust the universal guide to the desired distance from the blade. Use the scale rules on the work-table fence for reference.
5. Lift the ON/OFF switch to turn the saw on.
6. Wait until the blade has come up to speed and is thoroughly wet.
7. Ease the work table towards the blade to slowly feed the tile into the blade. Continue pushing until the blade cuts completely through the tile (Fig. 46).
8. Turn off the saw, pull the work table back, and remove the cut pieces and any debris.

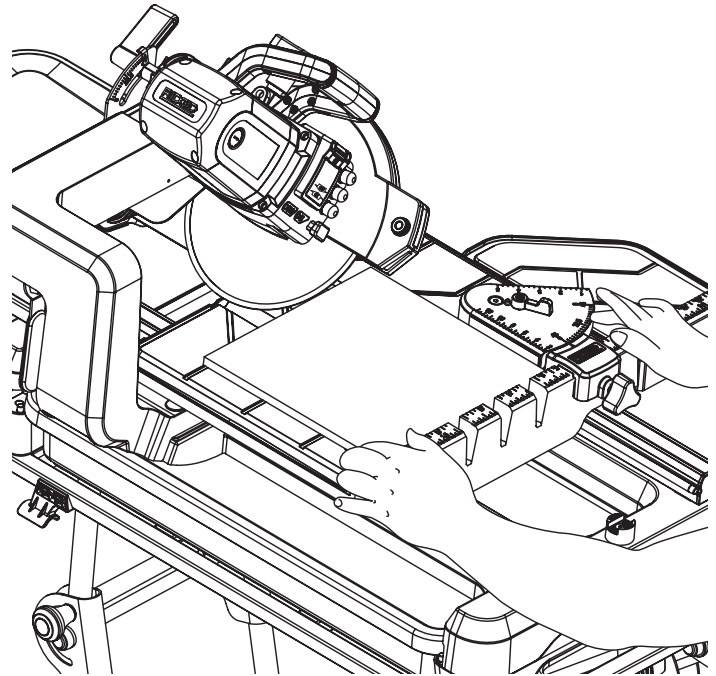


Fig. 46

## Plunge Cut

### **▲ WARNING:**

Wear safety glasses for laser and do not look directly into the laser-beam output aperture during plunge cut operation. The laser beam can be harmful to the eyes.

1. Loosen the depth-adjustment knob and the depth-stop-adjustment knob. Raise the saw. Set the desired lowest point of blade using the depth-adjustment knob. (See Depth Adjustment on page 25 of this manual.)
2. Position the tile on the work table, face down, pressed against the work table fence.
3. To use the laser, first calibrate the laser beam as described in “Laser Beam Calibration” and make sure that the laser beam is aligned with the cutting line.
4. Align the tile under the saw blade by moving the work table to the desired position.
5. Lift the ON/OFF switch to turn the saw on, and wait until the blade has come up to speed and is thoroughly wet.
6. Plunge the blade into the tile. Do not force the saw or move the blade too quickly into the tile (Fig. 47).
7. When the cut is complete, lift the saw from the tile.
8. Turn off the saw, pull the work table back, and remove the cutting pieces and any debris.

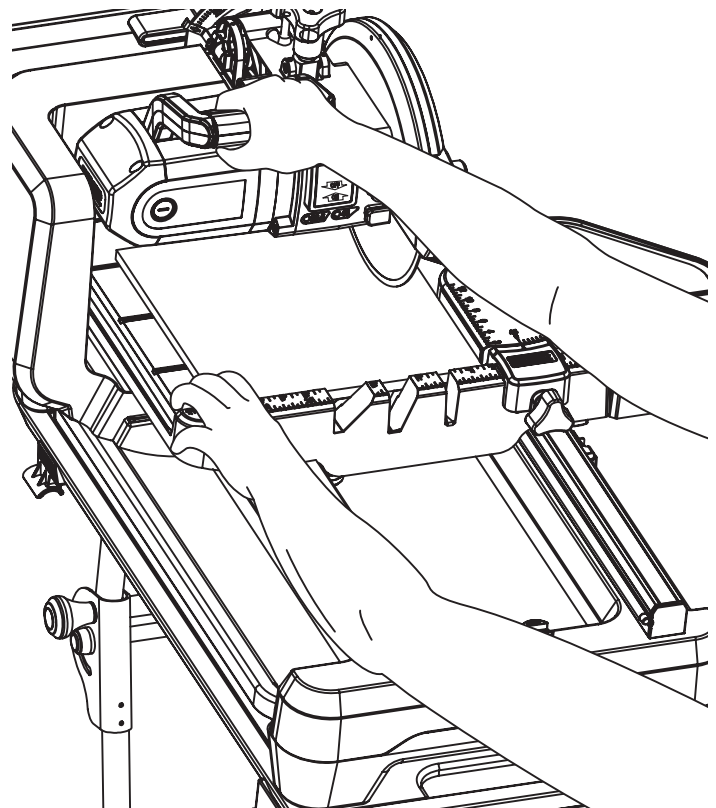


Fig. 47

# OPERATION

## Moving the Saw

**▲ WARNING:**

Before moving the saw with the stand or folding the stand, make sure that the work table is locked with the table lock and that the saw is securely fastened to the stand with the two screws. Please see “Mounting Your Saw” on page 17 of this manual. Failure to do so may result in serious personal injury.

1. Remove the extension table and invert it on the work table. Align the hole in the extension table with the hole in work table, pull out the pin attached to the extension table, and lock the extension table on the work table by inserting the pin into the holes (Fig. 48).
2. Unlock the wheels on the stand.
3. Hold the handle of the stand firmly, lift the stand, and make sure that the two legs without wheels are about 1/2 inch above the ground (Fig. 49).
4. The stand may also be fully or partially folded, as shown in Fig. 50 and Fig. 51. To fold the stand, please see “Closing the Stand” on page 14.
5. Move the stand carefully to the desired location (if the legs are folded, unfold the legs), and put it down gently until the two legs without wheels contact the ground.
6. Lock the two wheels of the stand.

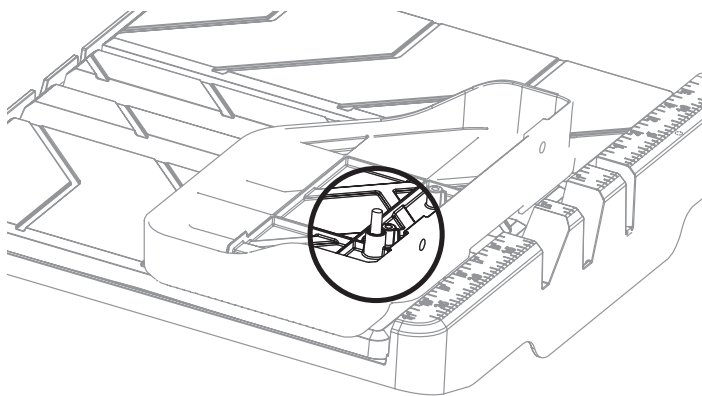


Fig. 48

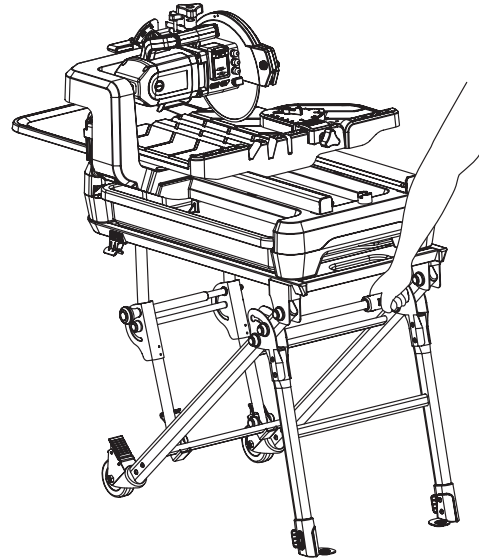


Fig. 49

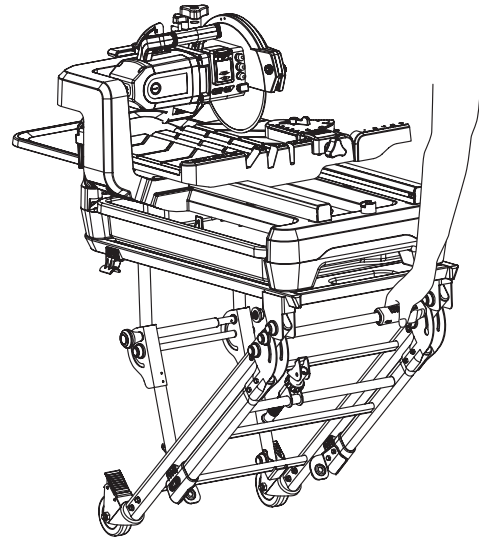


Fig. 50

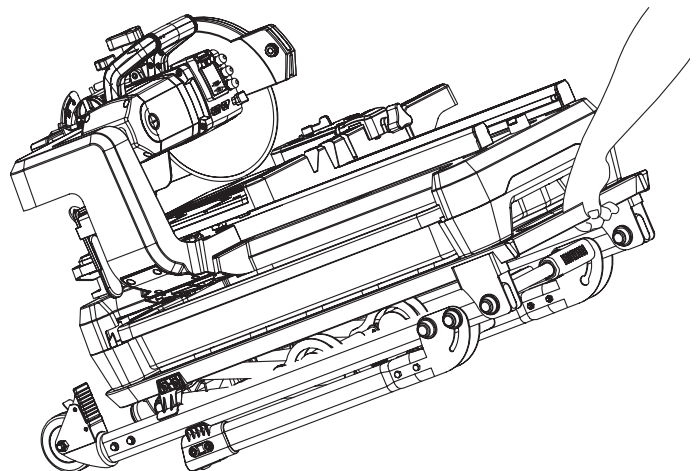


Fig. 51

# MAINTAINING YOUR SAW

## Maintenance

### ⚠ CAUTION!

For your safety, turn off the power switch and unplug the saw from the power source before performing any maintenance or cleaning. If the power cord becomes damaged in any way, replace it immediately with an approved cord. When cleaning the saw, **DO NOT SERVICE** the electric motor's internal components yourself. Contact an authorized service center.

Periodic maintenance of your tile saw allows for long life and trouble-free operation. The saw can generate considerable quantities of cutting residue. A cleaning, lubrication, and maintenance schedule should be maintained.

As a common-sense and preventative maintenance practice, follow these recommended steps:

- Clean the entire saw, except electrical parts, with fresh water after each use.
- Pump clean, fresh water for 1 minute through the water pump and blade-guard assembly to safeguard against slurry build-up and clogging.
- Inspect the diamond blade for its overall integrity. Check the rim for wear or damage.
- Use a soft cloth to clean the water and dust on the machine.
- Keep the ventilation slots of the motor clean to prevent overheating of the motor.

### ⚠ CAUTION:

**Never use water or any other chemical liquids for cleaning the electrical parts of the machine.**

## Cleaning the Water Pump

Remove the front-plate accessory and remove the sponge. Turn the impeller lid counterclockwise until the raised rib of the impeller lid disengages from the groove. Remove the impeller lid and impeller, and use a small brush or stream of water to clean any debris.

Re-assemble the pump, referring to Fig. 52.

**NOTE:** The pump shaft cannot be removed.

**NOTE:** If the volume of water pumped by the water pump is reduced or none after cleaning the water pump, replace the water pump or have it repaired by a qualified service professional.

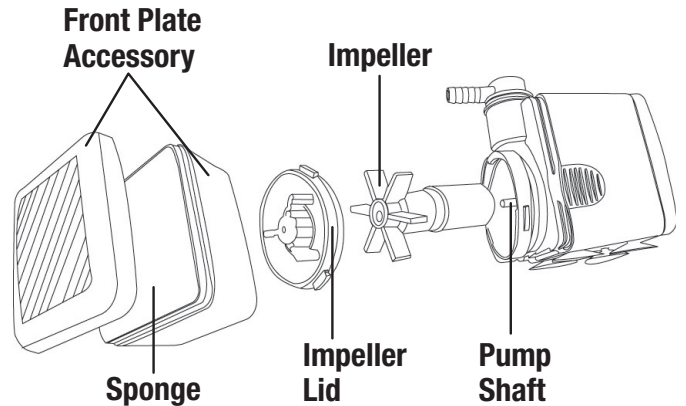


Fig. 52

## Changing Carbon Brushes (Fig. 53)

Replace the carbon brush on both sides of the motor when the motor stops running, or the carbon brush is worn out (only approximate 9/32" or 5/16" (7 or 8mm) in length).

1. Loosen the plastic cap with a screwdriver, and pull out the worn carbon brushes.
2. Insert new carbon brushes, replace the plastic caps, and tighten.

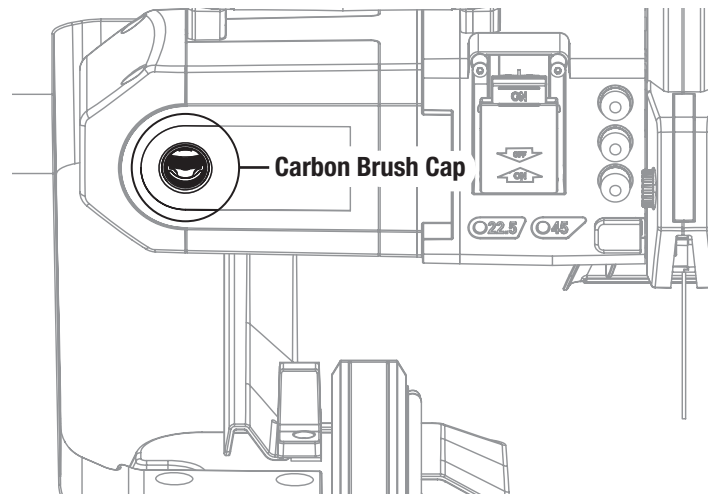
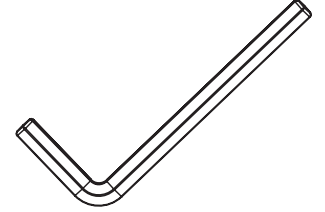
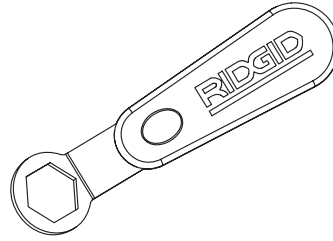


Fig. 53

# ATTACHMENTS

ITEM	PART NAME	QUANTITY
1	Nut Wrench	1
2	Hex Wrench	1



# TROUBLESHOOTING

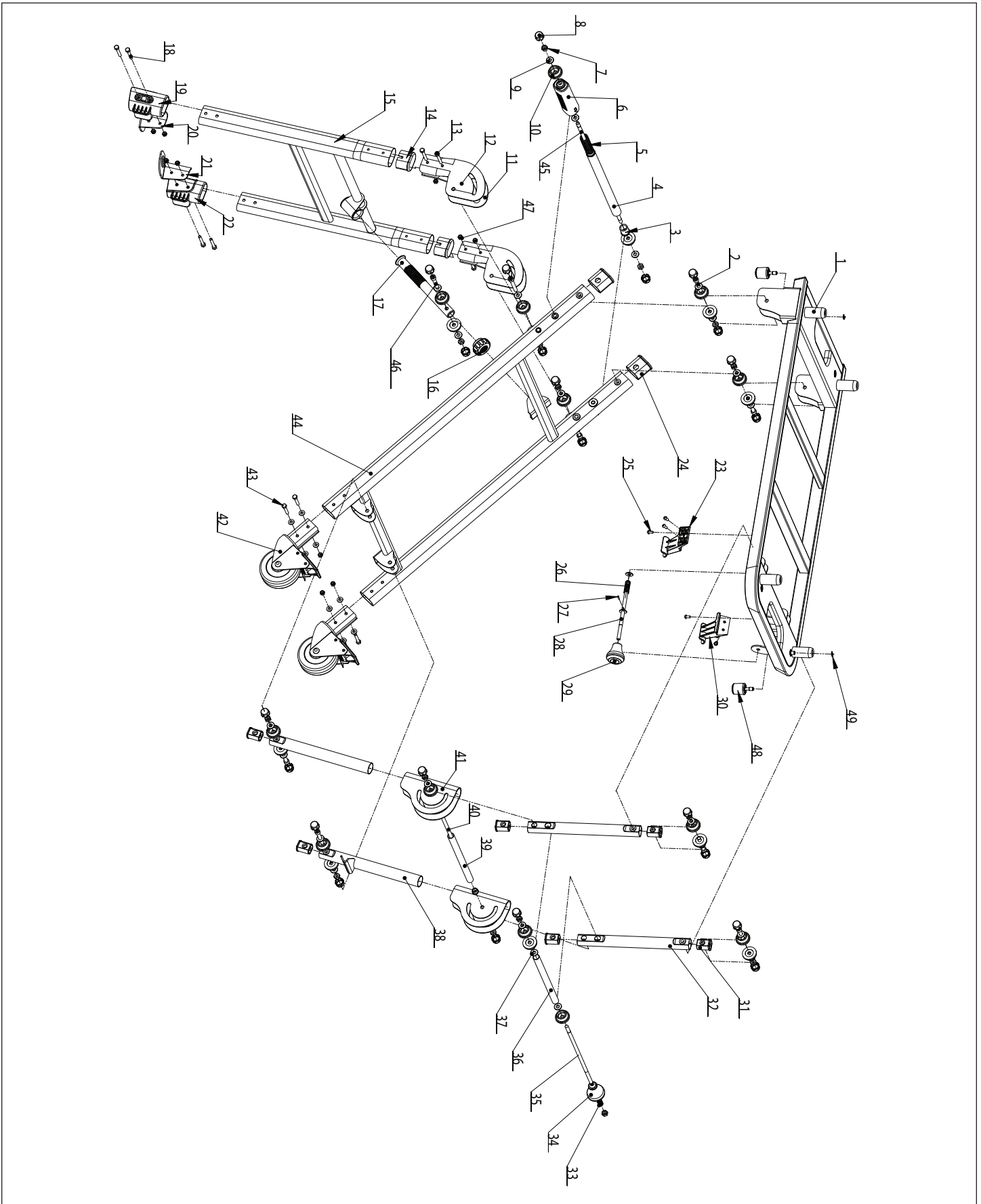
**WARNING:**

For your own protection, turn the ON/OFF switch to “OFF,” and always remove the plug from power-source outlet before troubleshooting.

TROUBLE	PROBABLE CAUSE	SOLUTION
Motor stops running	There is no power to the electrical outlet.	Make sure that the outlet has power.
	Low voltage.	Check that the power source voltage is 120V.
	Plugs aren't fully connected to the power source.	Verify that the plugs are securely connected.
	Switch isn't "ON."	Lift the ON/OFF switch to turn the saw on.
	The carbon brushes have worn out completely.	Replace the carbon brushes.
	GFCI is tripped.	Press the ON/OFF switch down to turn the saw off; reset the button on the GFCI.
	Overload protector tripped.	Press the overload-protector switch to restart the saw.
The water pump cannot inject water	The water-pump plug is not firmly connected to the saw receptacle.	Connect the water-pump plug to the saw receptacle.
	There is not enough water in the water tray.	Make sure that the water-pump intake is fully immersed in water.
	The water hose is loose or off.	Reconnect the water hose to the pump.
	The water valve is in "OFF" position.	Turn the valve to the "ON" position.
	The water hose or water nozzle is jammed.	Clean the water hose or water nozzle, or replace them.
	The water pump filter is too dirty.	Clean the water-pump filter.
	The water pump is damaged.	Replace the water pump.
LED Lights/Laser Beam projection is hard to see	Light in work area is too bright.	Move the machine to a work area where the light isn't as bright.
	Dust or water is on the laser-aperture cover or on the surface of LED lights.	Wipe the dust or water off with a clean, soft cloth.
LED Lights/Laser beam projection doesn't work	The LED Lights /LASER switch isn't turned on.	Turn on the LED/LASER switch.
Frequent tripping of overload protector	Rapid feeding of material into the cutting blade	Feed the material more slowly into the cutting blade
	Low voltage and heavy load	When cutting extremely dense materials, make sure that power supply voltage is exactly 120 V

# EXPLODED DRAWINGS AND PARTS LISTS

## WTS2000L Tile Saw Stand



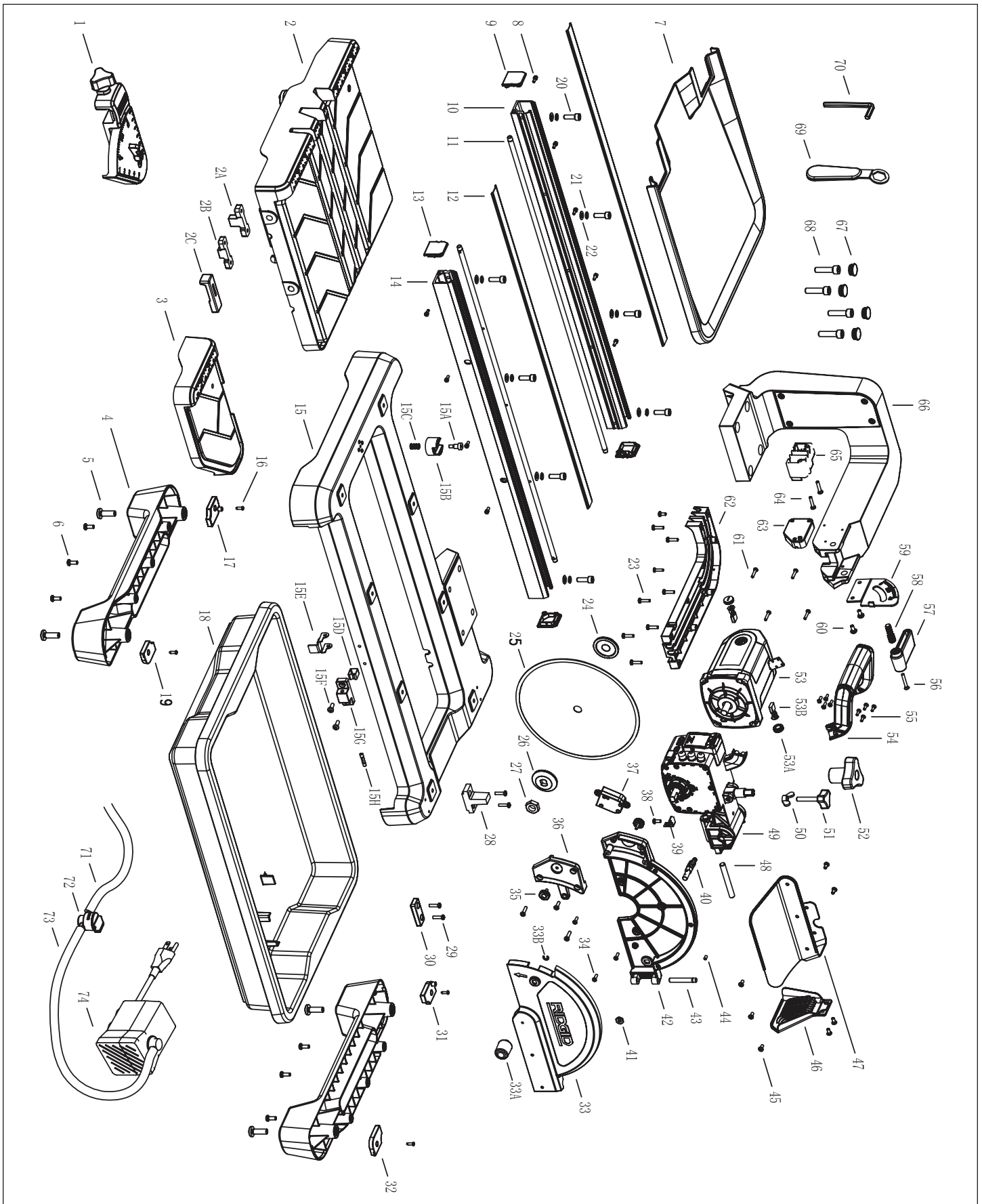
# EXPLODED DRAWINGS AND PARTS LISTS

## WTS2000L Tile Saw Stand Parts List

Key No.	Part No.	Description	QTY.	Key No.	Part No.	Description	QTY.
1	6106501	Table Frame	1	25	6106525	M5X10 mm Bolt	6
2	6106502	M8X5 mm Hex Head Bolt	8	26	6106526	Compression Spring	1
3	6106503	Plug for Spring Bushing	2	27	6106527	Rivet	1
4	6106504	Spring Bushing	1	28	6106528	Stop Rod	1
5	6106505	Crossbar Spring	1	29	6106529	Lock Knob	1
6	6106506	Lock Sleeve	1	30	6106530	Right Foot Cushion	1
7	6106507	Nut	14	31	6106531	Upper Support Tube End Cap	6
8	6106508	Nut Cover	23	32	6106532	Upper Support of Leg	2
9	6106509	M8 Washer	30	33	6106533	Spring	1
10	6106510	Nut Bushing	23	34	6106534	Knob	1
11	6106511	Left Connection Bracket	1	35	6106535	Position Rod	1
12	6106512	Right Connection Bracket	1	36	6106536	Plastic Bushing	1
13	6106513	M6X4 mm Bolt	4	37	6106537	Washer	2
14	6106514	Support Tube End Cap	2	38	6106538	Lower Support of Leg	2
15	6106515	Tilted Support Tube Assembly	2	39	6106539	Pull Rod Bushing	1
16	6106516	Tightening Nut	1	40	6106540	Pull Rod	1
17	6106517	Stop Bolt of Tilted Support (M24X3 mm)	1	41	6106541	Double Joint	2
18	6106518	M6X40 mm Bolt	4	42	6106542	Wheel Assembly	2
19	6106519	Left Foot	1	43	6106543	M6X35 mm Bolt	4
20	6106520	Left Mounting Foot	1	44	6106544	Lower Support Assembly	2
21	6106521	Right Mounting Foot	1	45	6106545	Pull Rod of Crossbar	1
22	6106522	Right Foot	1	46	6106546	M8X45 mm Hex Head Bolt	1
23	6106523	Left Foot Cushion	1	47	6106547	M6 Nut	12
24	6106524	Lower Support Tube End Cap	2	48	6106548	Knob	2
				49	6106549	Circlip	2

# EXPLODED DRAWINGS AND PARTS LISTS

## WTS2000L Tile Saw



# EXPLODED DRAWINGS AND PARTS LISTS

## WTS2000L Tile Saw Parts List

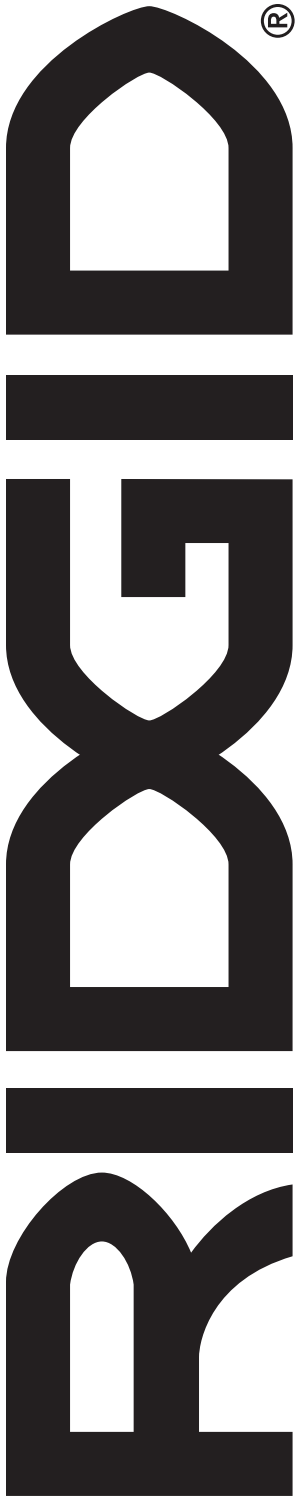
Key No.	Part No.	Description	QTY.	Key No.	Part No.	Description	QTY.
1	6106001	Universal Guide	1	33B	6106046	Check Ring	1
2	6106002	Work Table	1	34	6106047	Bolt	6
2A	6106003	Stop Block 1 of Work Table	1	35	6106048	Laser Beam Adjustment Knob	2
2B	6106004	Stop Block 2 of Work Table	1	36	6106049	Laser Beam Guard	1
2C	6106005	Table Lock	1	37	6106050	Laser Assembly	1
3	6106006	Extension Table	1	38	6106051	Bolt	1
4	6106007	Frame Support	2	39	6106052	Connection of LED Control Box	1
5	6106008	M10X30 mm Bolt	4	40	6106053	Water Nozzle	1
6	6106009	M6X16 mm Bolt	6	41	6106054	Flat Nut	1
7	6106010	Extension Water Tray	1	42	6106055	Inner Blade Guard	1
8	6106011	Bolt	10	43	6106056	Rotary Spindle of Blade Guard	1
9	6106012	End Cover 1 of Rail	2	44	6106057	Tightening Bolt	1
10	6106013	Left Rail	1	45	6106058	Bolt	7
11	6106014	Rail Shaft	2	46	6106059	Anti-Splash Guard 2	1
12	6106015	Top Cover of Rail	2	47	6106060	Anti-Splash Guard 1	1
13	6106016	End Cover 2 of Rail	2	48	6106061	Rotary Spindle of 57	1
14	6106017	Right Rail	1	49	6106062	Gear Box	1
15	6106018	Frame	1	50	6106063	Wing Nut	1
15A	6106019	Stop Pin	1	51	6106064	Depth Adjustment Knob	1
15B	6106020	Stop/Go Knob of Work Table	1	52	6106065	Depth Stop Adjustment Knob	1
15C	6106021	Stop Spring	1	53	6106066	Motor Unit	1
15D	6106022	Stop Spring Plate of Water Tray	1	53A	6106067	Carbon Brush Cap	2
15E	6106023	Lock Clip of Water Tray	1	53B	6106068	Carbon Brush	2
15F	6106024	Bolt	2	54	6106069	Handle	1
15G	6106025	Stop Block of Water Tray	1	55	6106070	Bolt	8
15H	6106026	Stop Pin of Watery Tray	1	56	6106071	Bolt	1
16	6106027	Self-Tapping Screw	4	57	6106072	Bevel Cut Adjustment Knob	1
17	6106028	Cover Board 1 of Frame Support	1	58	6106073	Tightening Bolt	1
18	6106029	Water Tray	1	59	6106074	Dial of Bevel Cut Adjustment	1
19	6106030	Cover Board 2 of Frame Support	1	60	6106075	Bolt	2
20	6106031	M8X25 mm Bolt	8	61	6106076	Bolt Assembly	4
21	6106032	Spring Washer	8	62	6106077	Cover 2 of Supporting Arm	1
22	6106033	Flat Washer	8	63	6106078	LED Control Box	1
23	6106034	Self-Tapping Screw	9	64	6106079	Bolt	2
24	6106035	Inner Flange	1	65	6106080	Wrench Storage Clip	1
25	6106036	Blade	1	66	6106081	Supporting Arm	1
26	6106037	Outer Flange	1	67	6106082	Bolt Cover	4
27	6106038	Shaft Nut	1	68	6106083	Bolt	4
28	6106039	Latch 1 of Extension Water Tray	1	69	6106084	Nut Wrench	1
29	6106040	Bolt	4	70	6106085	Allen Wrench	1
30	6106041	Latch 2 of Extension Water Tray	1	71	6106086	Water Hose 1	1
31	6106042	Cover Board 3 of Frame Support	1	72	6106087	Penstock	1
32	6106043	Cover Board 3 of Frame Support	1	73	6106088	Water Hose 2	1
33	6106044	Outer Blade Guard	1	74	6106089	Water Pump	1
33A	6106045	Knob of Blade Guard	1				











## RIDGID® TILE CUTTER AND TILE SAW LIMITED THREE YEAR WARRANTY AND 90 DAY SATISFACTION GUARANTEE POLICY

This product is manufactured under license from Ridgid, Inc. by Chervon North America, Inc. All warranty communications should be directed to Chervon North America, Inc. at: (toll free) 1-866-9-RIDGID (1-866-974-3443) or 1-800-4-RIDGID (1-800-474-3443).

### 90-Day Satisfaction Guarantee Policy

During the first 90 days after the date of purchase, if you are dissatisfied with the performance of this RIDGID® tool for any reason, you may return the tool to the dealer from which it was purchased for a full refund or exchange. To receive a replacement tool you must present proof of purchase and return all original equipment packaged with the original product. The replacement tool will be covered by the limited warranty for the balance of the three year warranty.

### What is covered under the Limited Three Year Warranty

This warranty covers all defects in workmanship or materials in this RIDGID® tool for the three year period from the date of purchase. This warranty is specific to this tool. Warranties for other RIDGID® products may vary.

### How to obtain service

For service or parts for this RIDGID® tool, please call (toll free) 1-866-9-RIDGID or 1-800-4-RIDGID or log onto the RIDGID® website at [www.ridgid.com](http://www.ridgid.com). When requesting warranty service or parts, you must present proof-of-purchase documentation that includes the date of purchase. An authorized service center will repair any faulty workmanship and either repair or replace any defective part, at our option and at no charge to you.

### Important:

*To speed up the warranty process, log onto the RIDGID® website at [www.ridgid.com](http://www.ridgid.com) or call 1-866-9-RIDGID or 1-800-4-RIDGID within 30 days of purchase to register your RIDGID® tool and validate your warranty. Please keep a copy of your receipt for your records and to make a claim on your warranty.*

### What is not covered

This warranty applies only to the original purchaser at retail and may not be transferred. This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defect resulting from misuse, abuse, neglect, alteration, modification or repair by other than authorized RIDGID® service center for tile cutters and tile saws. Chervon North America, Inc. makes no warranties, representations or promises as to the quality or performance of its power tools other than those specifically stated in this warranty.

### Additional Limitations

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, that cannot be disclaimed under state law are limited to three years from the date of purchase. Chervon North America, Inc. is not responsible for direct, indirect, incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

#### Model No. WTS2000L

Serial No. \_\_\_\_\_

The model and serial numbers may be found on a plate attached to the saw at the rear of the tile saw base. You should record both model and serial number in a safe place for future use.

### Questions or comments? Call:

**1-866-9-RIDGID (1-866-974-3443) or 1-800-4-RIDGID (1-800-474-3443)**  
or go on-line at [www.ridgid.com](http://www.ridgid.com).

**Please have your Model Number and Serial Number on hand when calling.**