BENCHMARK™ MC

7” WET TILE SAW

1346-800

LIMITED 5 YEAR* WARRANTY

5 Year Limited Warranty

C ETL US LISTED
Intertek
ETL3092372
TS65H

READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK

BENCHMARK

PRODUCT SPECIFICATIONS

7” WET TILE SAW	
Rating	120V~ 60 Hz, 6.5 Amp Induction motor
Wheel Diameter	7” (18cm)
No Load Speed	3450 RPM
Wheel Arbor	5/8”
Maximum Depth of Cut	1-3/8” @ 90° & 11/16” @ 45°
Rip Capacity (tile size)	24” (61cm) (with rear support table)
Maximum Cutting Angle	45°
Table Dimensions	23” (58.4 cm) x 17” (43.2 cm) 25” (64 cm) x 17” (43.2 cm) Maximun extension
Replacement Blade	1252-006
Blade options (sold separately)	1252-007 Glass/Mosaic Tile & 1252-014 Porcelain/Granite
Weight	30 lbs. (13.6kg)

NEED ASSISTANCE?

Call us on our toll- free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

TABLE OF CONTENTS

GENERAL SAFETY WARNINGS

⚠ WARNING:

Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

SYMBOL	MEANING
	**ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1** FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. **Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.**
	Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.
	**WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.** Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include: • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber the level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.

READ ALL INSTRUCTIONS

- **KNOW YOUR POWER TOOL.** Read the operator's manual carefully. Learn the saw's applications and limitations as well as the specific potential hazards related to this tool.
- **GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES.** For example, pipes, radiators, ranges, refrigerator enclosures.
- **KEEP GUARDS IN PLACE** and in good working order.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that key and adjusting wrenches are removed from tool before turning it on.
- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents. **DO NOT** leave tools or pieces of tile on the saw while it is in operation.
- **DO NOT USE IN DANGEROUS ENVIRONMENTS.** Do not use power tools in damp or wet locations or expose to rain. Keep the work area well lit.
- **KEEP CHILDREN AND VISITORS AWAY.** All visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord while operating.
- **MAKE WORKSHOP CHILDPROOF** with padlocks and master switches, or by removing starter keys.
- **DON'T FORCE TOOL.** It will do the job better and safer at the feed rate for which it was designed.
- **USE RIGHT TOOL.** Don't force the tool or attachment to do a job it was not designed for. Don't use it for a purpose not intended.
- **USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. Use only a cord 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. A wire gauge size (A.W.G.) of at least 14 is recommended for an extension cord 25 feet or less in length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- **DRESS PROPERLY.** Do not wear loose clothing, gloves, neckties, or jewellery. They can get caught and draw you into moving parts. Rubber gloves and nonskid footwear (rubber soled boots) are recommended when working outdoors. Also wear protective hair covering to contain long hair.
- **ALWAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS.** Everyday eyeglasses have only impact- resistant lenses, they are **NOT** safety glasses.
- **SECURE WORK.** Use clamps or a vise to hold work when practical, it is safer than using your hand and frees both hands to operate the tool.
- **DON'T OVERREACH.** Always keep proper footing and balance.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
- **DISCONNECT TOOLS.** When not in use, before servicing, or when changing attachments, blades, bits, cutters, etc., all tools should be disconnected.
- **AVOID ACCIDENTAL STARTING.** Be sure switch is off when plugging in any tool.
- **USE RECOMMENDED ACCESSORIES.** Consult the operator's manual for recommended accessories. The use of improper accessories may risk injury.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged must be properly repaired or replaced by an authorized service center to avoid risk of personal injury.
- **USE THE RIGHT DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of blade or cutter only.
- **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN THE POWER OFF.** Don't leave tool until it comes to a complete stop.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the cutting operation is dusty.
-

- **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- **DO NOT ABUSE CORD.** Never yank cord to disconnect from receptacle. Keep cord away from heat, oil, and sharp edges.
- **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.
- **ALWAYS KEEP THE SPLASH HOOD IN PLACE** and in working order.
- **KEEP HANDS AWAY FROM CUTTING AREA.** Keep hands away from wheels. Do not reach underneath work or around or over the wheel while wheel is rotating. Do not attempt to remove cut material when wheel is moving.
- **WHEEL COASTS AFTER BEING TURNED OFF.**
- **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.**
  Normal sparking of the motor could ignite fumes.
- **INSPECT TOOL CORDS PERIODICALLY.** If damaged, have repaired by a qualified service technician at an authorized service facility. Stay constantly aware of cord location and keep it well away from the rotating wheel.
- **INSPECT EXTENSION CORDS PERIODICALLY and replace if damaged.**
- **GROUND ALL TOOLS.** If tool is equipped with three- prong plug, it should be plugged into a three-hole electrical receptacle.
- **ONLY POWER THE TOOL WITH A GFCI (GROUND FAULT CIRCUIT INTERRUPTOR) PROTECTED OUTLET.**
- **CHECK WITH QUALIFIED ELECTRICIAN or service personnel** if the grounding instructions are not completely understood or if in doubt as to whether the tool is properly grounded.
- **USE ONLY CORRECT ELECTRICAL DEVICES:** 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- **DO NOT MODIFY** the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
- **KEEP TOOL DRY, CLEAN, AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean tool.
- **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.
- **DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by an authorized service center.
- **USE ONLY CORRECT BLADES. Do not** use blades with incorrect size holes. Never use washers or arbor nuts that are defective or incorrect. The maximum blade capacity of your saw is 7 in. (178 mm).
- **BEFORE MAKING A CUT, BE SURE ALL ADJUSTMENTS ARE SECURE.**
- **NEVER TOUCH BLADE** or other moving parts during use.
- **NEVER START A TOOL WHEN ANY ROTATING COMPONENT IS IN CONTACT WITH THE WORKPIECE.**
- **DO NOT OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATION.**
- **WHEN SERVICING** use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
- **USE ONLY RECOMMENDED ACCESSORIES** listed in this manual or addendums. Use of accessories that are not listed may cause the risk of personal injury. Instructions for safe use of accessories are included with the accessory.
- **DOUBLE CHECK ALL SETUPS.** Make sure blade is tight and not contacting saw or workpiece before connecting to power supply.

- **NEVER ALLOW TOOL** to come into contact with brake fluids, gasoline, petroleum based products, or solvents.
- **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.
- **DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by an authorized service center.
- **USE ONLY CORRECT BLADES. Do not** use blades with incorrect size holes. Never use washers or arbor nuts that are defective or incorrect. The maximum blade capacity of your saw is 7 in. (178 mm).
- **BEFORE MAKING A CUT, BE SURE ALL ADJUSTMENTS ARE SECURE.**
- **NEVER TOUCH BLADE** or other moving parts during use.
- **NEVER START A TOOL WHEN ANY ROTATING COMPONENT IS IN CONTACT WITH THE WORKPIECE.**
- **DO NOT OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATION.**
- **WHEN SERVICING** use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
- **USE ONLY RECOMMENDED ACCESSORIES** listed in this manual. Use of accessories that are not listed may cause the risk of personal injury. Instructions for safe use of accessories are included with the accessory.
- **DOUBLE CHECK ALL SETUPS.** Make sure blade is tight and not contacting saw or workpiece before connecting to power supply.

SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES

WARNING: Know your wet tile saw. Do not use the wet tile saw until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.

Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

WARNING: Glasses or googles not in compliance with ANSI Z87.1 could cause serious injury when they break.

- **SECURE WORK** firmly against the miter guide or fence.
- **NEVER** stand or have any part of your body in line with the path of the blade.
- **NEVER** attempt to free a stalled blade without first turning the saw **OFF** and disconnecting the saw from the power source.
- **IF THE POWER SUPPLY CORD IS DAMAGED,** it must be replaced only by the manufacturer or by an authorized service center to avoid risk.
- **AVOID AWKWARD OPERATIONS AND HAND POSITIONS** where a sudden slip could cause your hand to move into the cutting tool.
- **MAKE SURE THE WORK AREA HAS AMPLE LIGHTING** to see the work and that no obstructions will interfere with safe operation **BEFORE** performing any work using the saw.
- **ALWAYS TURN OFF SAW** before disconnecting it, to avoid accidental starting when reconnecting to power supply.
- **Only use with blades in good working condition. Remove damaged or worn blades immediately.**
- **Make regular checks to ensure that the blade is correctly fastened.**

THIS TOOL should have the following markings:

- Wear eye, hearing, and breathing protection.
- Use splash hood for every operation for which it can be used.
- Disconnect saw before servicing, when changing blades, and cleaning.
- Use tool only with smooth edge blades free of openings, grooves, and teeth.
- Replace damaged blade before operating.
- Do not fill water bath above water fill line.

SAVE THESE INSTRUCTIONS. Refer to them frequently and use to instruct other users. If you loan someone this tool, loan them these instructions too.

SAFETY SYMBOLS

WARNING: Some of the following symbols may appear on your tool. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

V	Volts	3n ~	Three-phase alternating current with neutral
A	Amperes		
Hz	Hertz	⎓	Direct current
W	Watts	n_o	No load speed
kW	Kilowatts	⎍	Alternating or direct current
μF	Microfarads	⧈	Class II construction
L	Litres	⚠	Splash-proof construction
kg	Kilograms		Watertight construction
H	Hours	⏚	Protective grounding at terminal, Class I tools
N/cm²	Newtons per square centimeter	.../min	Revolutions or reciprocations per minute
Pa	Pascals	Ø	Diameter
Min	Minutes	O	Off position
S	Seconds	➡	Directional arrow
~ or AC	Alternating current	⚠	Warning symbol
3~	Three-phase alternating current		Wear your safety glasses

ETL3092372
TS65H

This symbol designates that this tool is listed with Canadian and U.S. requirements by ETL Testing Laboratories, Inc.
Conforms to UL Std. 987:2011 Ed.8+R:12May2020
Certified to the CSA C22.2 # 71.2:2010 Ed. 4+U1

SAVE THIS USER MANUAL

⚠ WARNING

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

ELECTRICAL CONNECTION

MINIMUM GAUGE (AWG) EXTENSION CORD (120 V use only)

Amperage rate		**Total length**			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

This tool is powered by a precision built electric motor. It should be connected to a **power supply that is 120 V, AC only (normal household current), 60 Hz.** Do not operate this tool on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the saw does not operate when plugged into an outlet, double check the power supply.

SPEED AND WIRING

The no-load speed of this tool is approximately 3,450 rpm.
This speed is not constant and decreases under a load or with lower voltage. For voltage, the wiring in a shop is as important as the motor's horsepower rating. A line intended only for lights cannot properly carry a power tool motor. Wire that is heavy enough for a short distance will be too light a greater distance. A line that can support one power tool
may not be able to support two or three tools.

GROUNDING INSTRUCTIONS

See Figure 1.

This tool must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having 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. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
in use".

WARNING:

Improper installation of the grounding plug can result in a risk of electric shock. If in doubt, have it checked by an electrician. Repair or replace a damaged or worn cord immediately.
This product is for use on a nominal 120-volt circuit and has a grounding plug.
Only connect the product to an outlet having the same configuration as the plug.

Do not use an adapter with this product, which has a Ground Fault Circuit Interrupter (GFCI), as protection should be Provided on the circuit(s) or outlet(s) to be used for the tile saw.
Outlets are available having built-in GFCI protection and may be used for this measure of safety.

If the saw is used with an extension cord, ensure the connection of the tool's power cord and the extension cord are not on the ground.
If a protected outlet is not available, do not use the saw until an outlet can be changed or auxiliary protection can be obtained. These auxiliary protection devices are available at your local retailer.

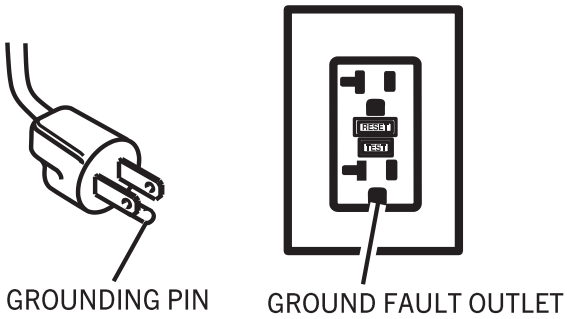


Fig. 1

POSITION OF THE TILE SAW

See Figures 2 - 3.

To avoid the possibility of the tool plug or outlet getting wet, position tile saw to one side of a wall-mounted outlet to prevent water from dripping onto the outlet or plug. The operator should arrange a "drip loop" in the cord connecting the saw to the outlet. The "drip loop" is that part of the cord below the level of the outlet, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the outlet.
If the plug or outlet does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool then unplug and examine for the presence of water in the outlet.

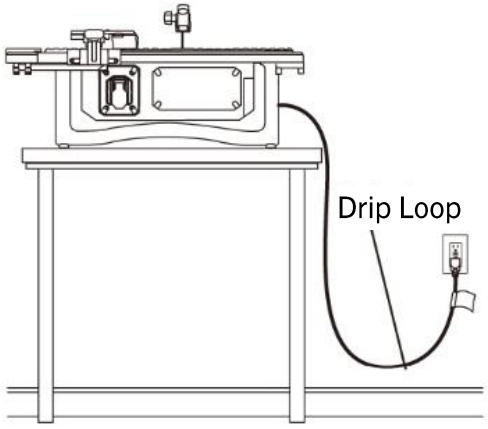


Fig. 2

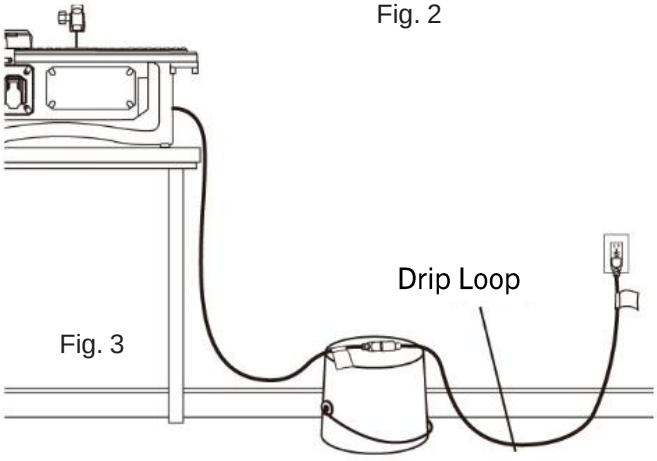
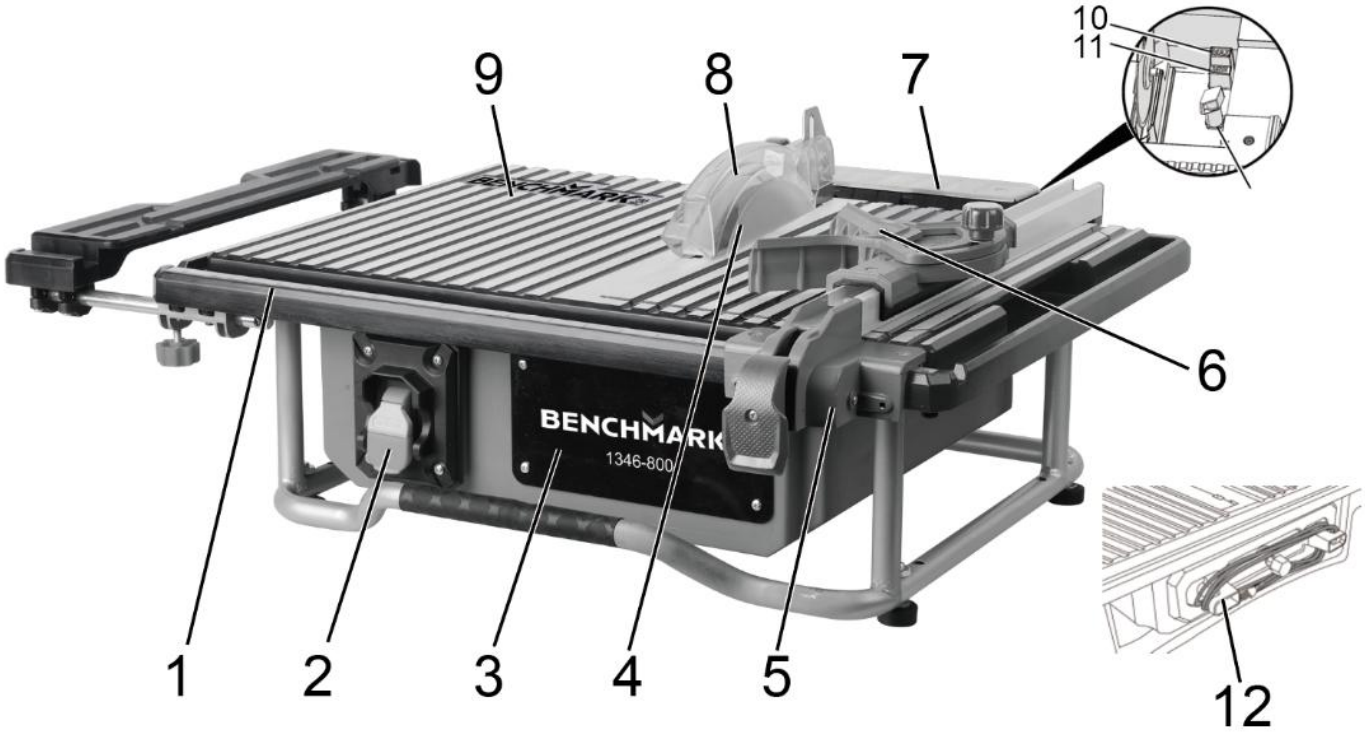


Fig. 3

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

KNOW YOUR 7” WET TILE SAW



1. Rip Guide Scale
2. ON/OFF Switch
3. Water Reservoir
4. Blade
5. Rip Guide
6. Miter Guide
7. Rear Support Table
8. Splash Hood
9. Bevel Table
10. Max Water Fill Line
11. Min Water Fill Line
12. Cord Storage

ASSEMBLY AND OPERATION

See Figure 4.

The safe use of this product requires an understanding of the information on the tool and in this operator’s manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

7" PREMIUM DIAMOND COATED BLADE - A 7 in. Premium diamond coated blade is included with your saw.

⚠ WARNING:
Do not use blade rated less than the speed of this tool. Failure to heed this warning could result in personal injury.

BEVEL TABLE - Beveled 22.5° and 45° cuts can be made using the bevel table.

MITER GUIDE - The easy-to-read indicator on the miter guide shows the exact angle for the desired cut.

MOTOR - This machine has a strong motor with sufficient power to handle most cutting jobs.

ON/OFF SWITCH - The on/off switch is located below the front rail.

REAR SUPPORT TABLE - Helps supporting larger tiles up to 24 in. when making rip cuts.

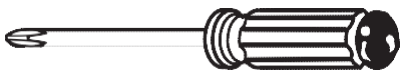
RIP GUIDE - Rip guide is fully adjustable for making cross cuts and using the miter guide.

SPLASH HOOD - The splash hood helps contain overspray and mist.

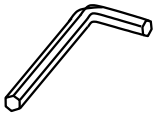
WRENCH STORAGE - The blade wrench and arbor wrench may be stored on the side of the tool and secured with a wing nut.

TOOLS NEED

The following tool (not included or drawn to scale) are needed for assembly and alignment:



PHILLIPS® SCREWDRIVER



2 MM HEX KEY, 3 MM HEX KEY

Fig. 5

Most of the Loose Parts shown below are stored in the water reservoir:

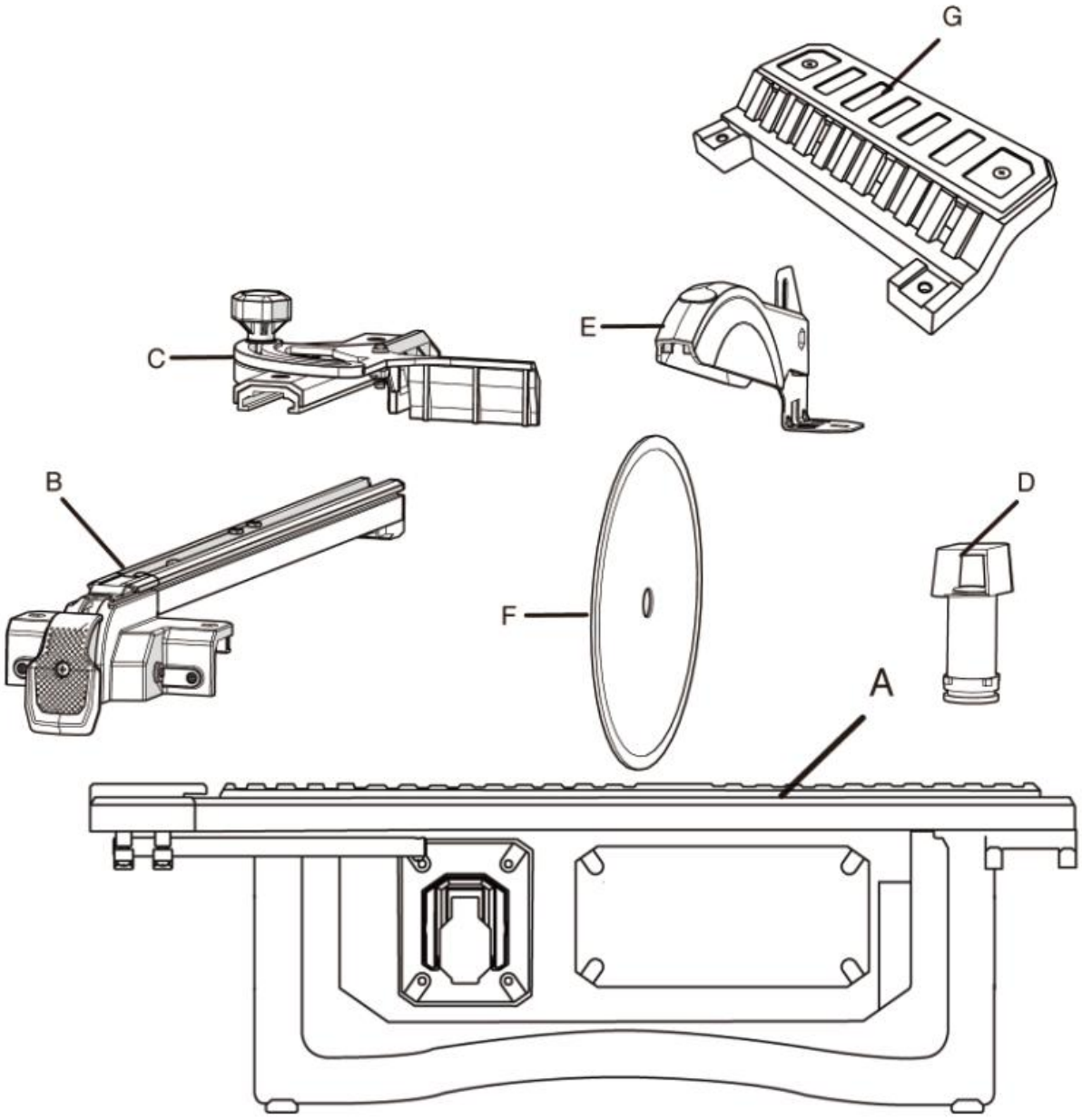


Fig. 6

A - Tile saw..... 1
B - Rip guide 1
C- Miter guide..... 1
D - Overflow drain..... 1
E - Splash hood assembly..... 1
F - Diamond blade 1
G- Rear support table.....1

UNPACKING

See Figure 6.

This product requires assembly.

- Carefully lift the saw from the carton and place on a level work surface.

⚠ WARNING:

Do not use this product if any parts on the Loose Parts List are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.

  NOTE: Most of the Loose Parts are stored in the water reservoir.
- The saw is factory set of accurate cutting. After assembling it, check for accuracy. If shipping has influenced the settings, refer to specific procedures explained in this manual.
- If any parts are damaged or missing, please call 1-866-349-8665 for assistance.

⚠ WARNING:

If any parts are damaged or missing do not operate this tool until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

⚠ WARNING:

Do not attempt to modify this tool or use accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

⚠ WARNING:

Do not connect to the power supply until the assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

MOUNTING HOLES

The tile saw can be mounted to a firm supporting surface such as a workbench. Four bolt holes have been provided in the saw's base for this purpose. Each of the four mounting holes should be bolted securely using 3/8 in. machine bolts,

lock washers, and hex nuts (not included). Bolts should be of sufficient length to accommodate the saw base, lock washers, hex nuts, and the thickness of the workbench.
Tighten all four bolts securely.
Carefully check the workbench after mounting to make sure that no movement can occur during use. If any tipping, sliding, or walking is noted, secure the workbench to the floor before operating.

INSTALLING THE REAR SUPPORT TABLE

See Figure 7.

- Align the wing screws with the holes located on the back of the saw, underneath the saw table.
- Turn each wing screw until the support table is securely attached.

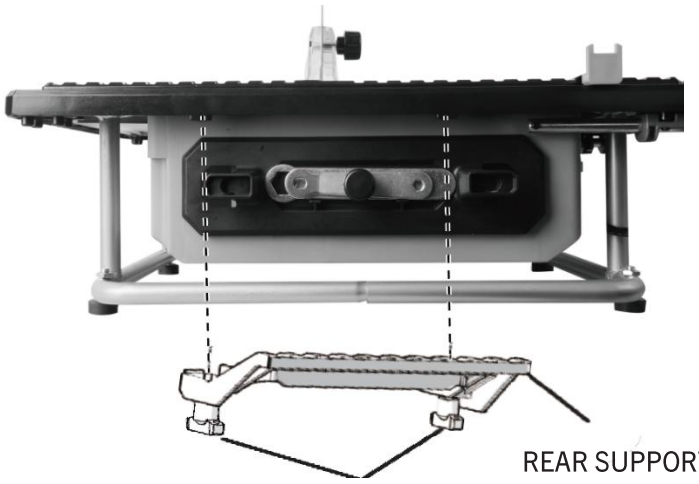


Fig. 7

TILE CUTTING BLADE

For maximum performance and safety, it is recommended that you use the 7 in. Diamond blade provided with your saw.

⚠ WARNING:

Do not use blades rated less than the no-load speed of this tool. Failure to heed this warning could result in personal injury. Do not use blades with cracks, gaps, or teeth.

INSTALLING DIAMOND COATED BLADE

See Figures 8 - 9.

⚠ WARNING:

A 7 in. blade is the maximum blade capacity of the saw. Never use a blade that is too thick to allow the blade washer to engage with the flats on the spindle. Larger blades will come in contact with the splash hood, while thicker blades will prevent the blade bolt from securing the blade on the spindle. Either of these situations could result in a serious accident and can cause serious personal injury.

- Unplug the saw and remove the bevel table.
- Remove the wing nut and wrenches from the wrench storage area.
- Place the blade wrench over the arbor nut and hold the blade wrench upright.
- Slide the arbor wrench onto the arbor.
- Hold the blade wrench in place and push the arbor wrench away from you to loosen the arbor nut.
- Remove the arbor nut and outer washer, leaving the inner washer on the arbor.

⚠ WARNING:

Always make sure the inner blade washer is installed before placing the blade on the arbor. Failure to do so could cause an accident, since the blade will not tighten properly. Never use blade that have openings, grooves, or teeth on this tool.

- Place the blade onto arbor with the arrows on blade going in the counterclockwise direction.

  NOTE: The blade must be installed all the way onto the arbor. Check to see that the blade spins freely once installed. It should spin freely, with no side-to-side movement.
- Replace the outer washer. The double "D" flats on the washers align with the flats on the arbor.
- Replace the arbor nut onto the arbor. Hold the blade wrench upright and pull the arbor wrench toward you to tighten the arbor nut.
- Return the wrenches and wing nut to the wrench storage area.

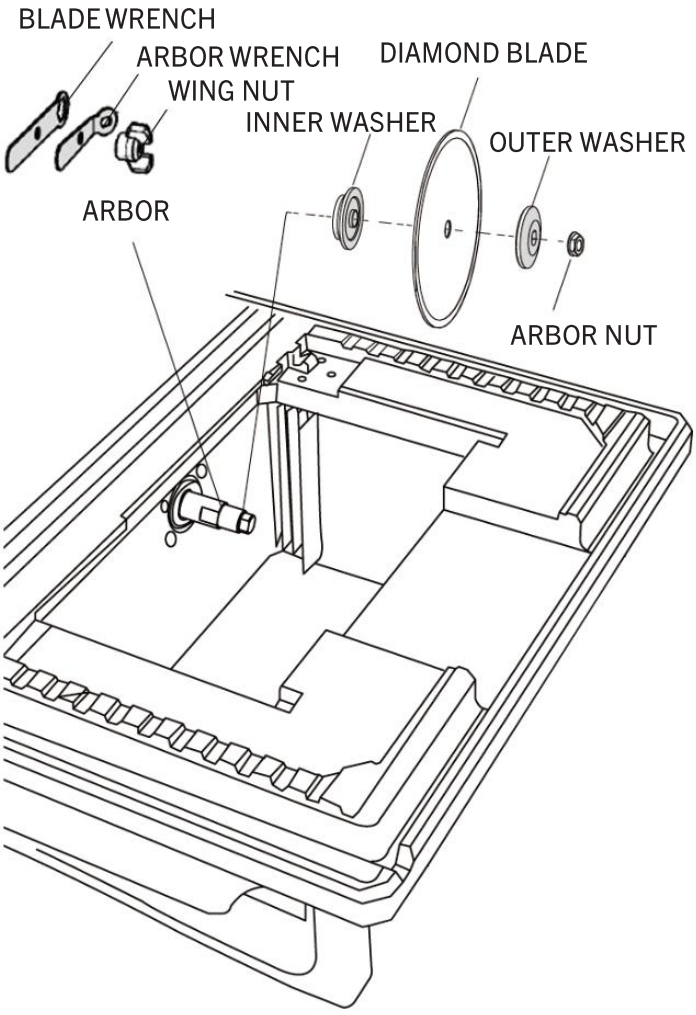


Fig. 8

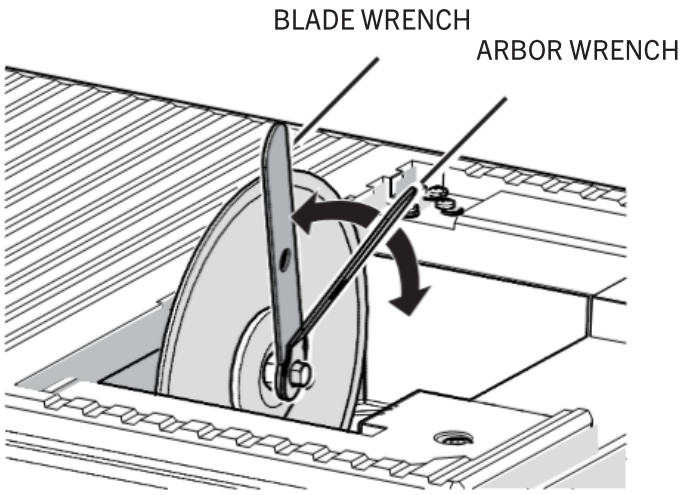


Fig.9

INSTALLING THE SPLASH HOOD

See Figure 10.

- Remove the bevel table.
- Using a PHILLIPS® screwdriver, loosen and remove the three screws located in the pocket under the table behind the blade.
- Slide the L-shaped splash hood bracket into the pocket.
- Reinstall the screws through the splash hood bracket and into the table. Tighten securely.

  NOTE: Align the hood bracket with the blade so that it does not interfere with the material being cut. To check the alignment, see S**plash Hood Bracket Adjustment** in the ***Adjustments*** section of this manual.

  NOTE: Always adjust the splash hood horizontally to the table and slightly above tile thickness. The Hood must not touch the tile.
- To lift or lower the splash hood or adjust its position, loosen the lock knob, adjust the splash hood to the desired height, and retighten the lock knob.
- Reinstall the bevel table.

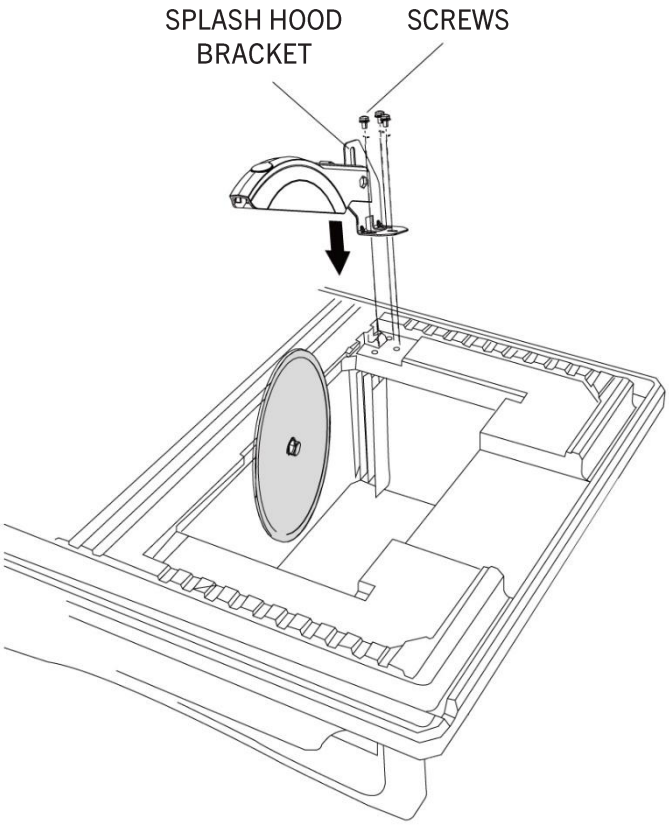


Fig. 10

INSTALLING THE RIP GUIDE

See Figure 11.

- Place the front of the rip guide on the front rail of the saw table.
- Lower the back of the rip guide to the saw table.
- Use the rip guide scale, located on front of the table, to set the rip guide to the desired width of cut.
- Push the locking lever down to secure to the saw table. When securely locked, the locking lever should point Downward.

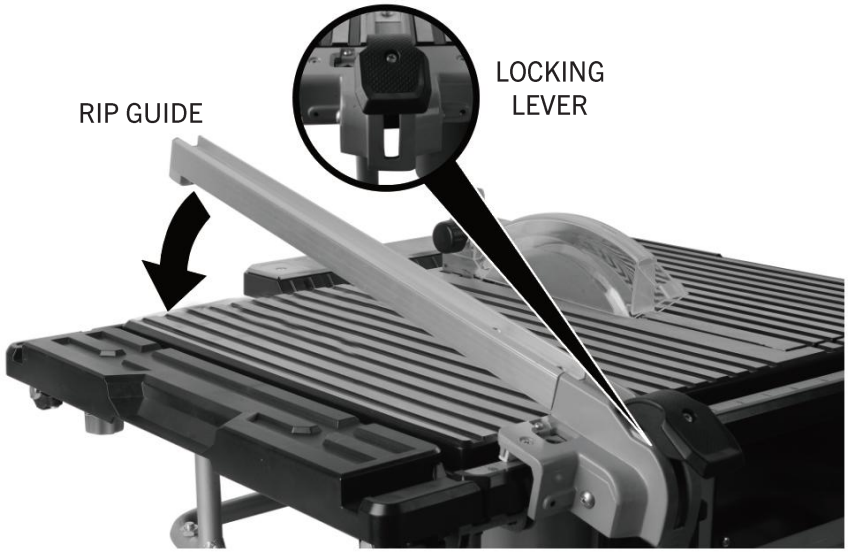


Fig.11

INSTALLING THE MITER GUIDE

See Figure 12.

- Align the grooves under the miter guide with the grooves in the top of the rip guide.
- Push the miter guide onto the rip guide to the desired operating position.

NOTE: Slide the guide off the rip guide to remove.

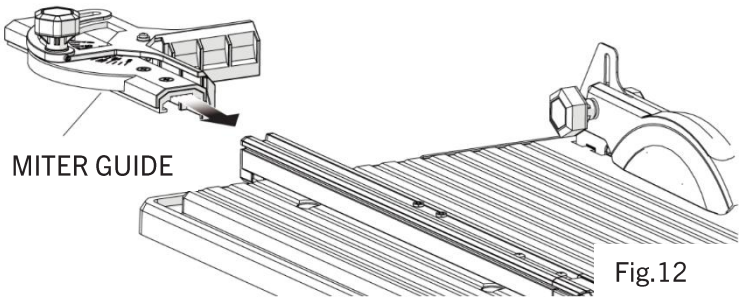


Fig.12

INSTALLING THE OVERFLOW DRAIN

See Figure 13.

- Firmly push the overflow drain into the hole in the bottom of the water reservoir.

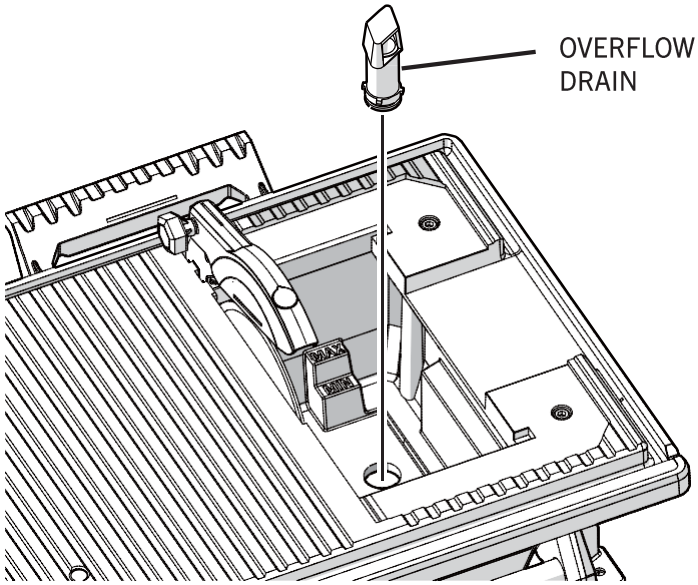


Fig. 13

FILLING/CHANGING THE WATER RESERVOIR

See Figure 14.

The water reservoir must be filled at least to the MIN fill line and should not be filled past the MAX fill line. Check the water level periodically and refill as needed.

- Fill the water reservoir with clean tap water to the MAX fill line.

  NOTE: The overflow drain prevents overfilling.

To change reservoir water:

- Unplug the saw.
- Remove the overflow drain and empty wastewater into a bucket. Do not allow the water to splash onto the ground or around the machine.
- Rinse the machine thoroughly.
- Discard the wastewater in accordance with local regulations.
- Replace with clean water.

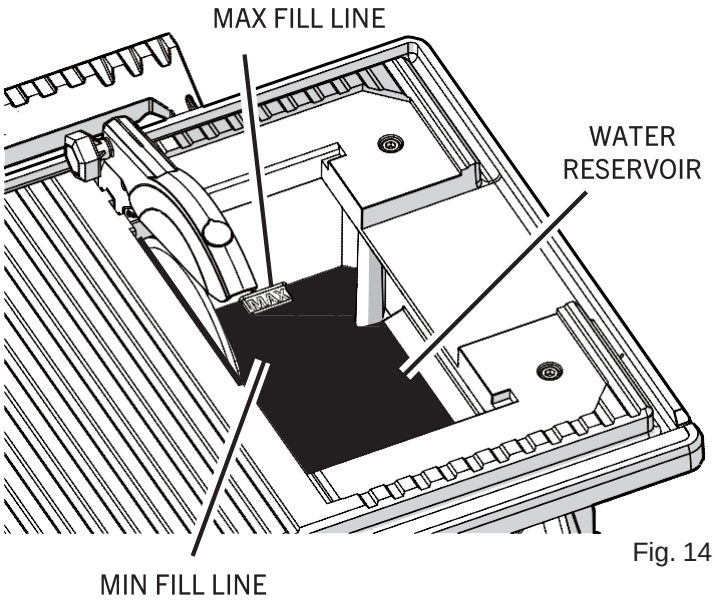


Fig. 14

⚠ WARNING:

Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

⚠ WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.

⚠ WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.

APPLICATIONS

You may use this tool for the purposes listed below:

- Straight line cutting operations such as cross cutting, mitering, ripping, and beveling

NOTE: This saw is designed to cut man-made tile, pavers, and stone tile products only.

ON/OFF SWITCH

See Figure 15.

This saw is equipped with an on/off switch that has a built-in locking feature. This feature is intended to prevent unauthorized and possible hazardous use by children and others.

To turn the saw on:

- Lift the switch to turn **ON**.

To turn the saw off:

- Press the switch down to turn **OFF**.

To lock the saw:

- With the saw turned **OFF**, install a padlock (not included) through the hole in the switch.

⚠ WARNING:

In the event of a power failure or when the tool is not in use, turn the switch **OFF**. This action will prevent the tool from accidentally starting when power returns.

⚠ WARNING:

ALWAYS make sure your workpiece is not in contact with the blade before operating the switch to start the tool. Failure to heed this warning may cause the workpiece to be kicked back toward the operator and result in serious personal injury.

⚠ WARNING:

To reduce the risk of accidental starting, ALWAYS make sure the switch is in the **OFF** position before plugging tool into the power source.

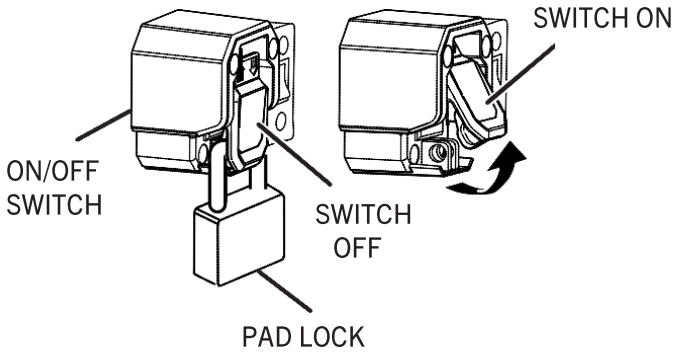


Fig. 15

USING THE MITER GUIDE

See Figure 16.

To adjust angles:

- Install the miter guide onto the rip guide.
- Loosen the lock knob and rotate the miter guide until the angle selector points to the desired angle.
- Securely tighten the lock knob.

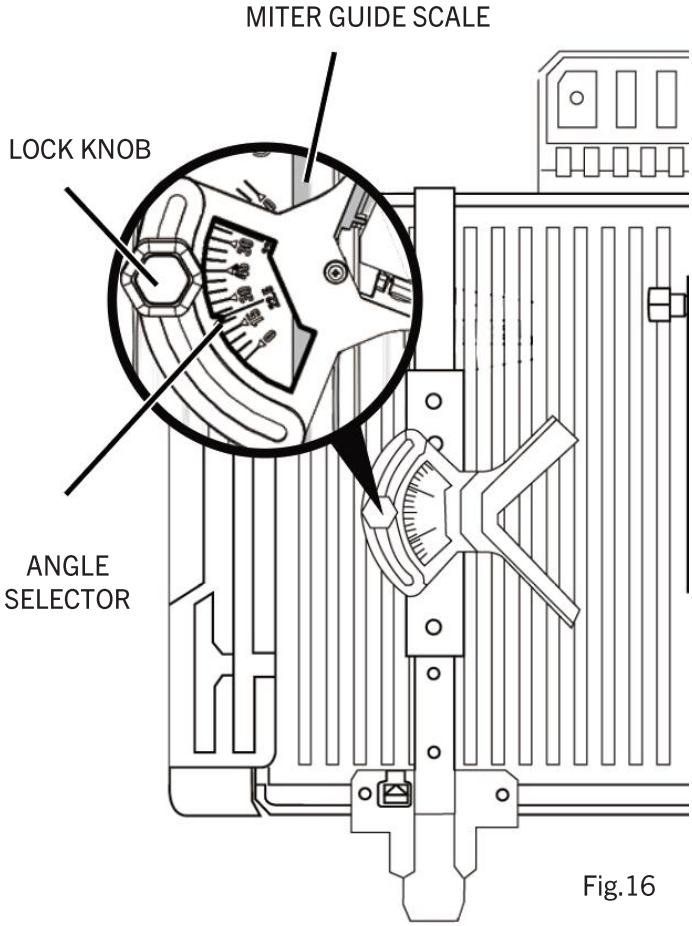


Fig.16

MAKING CUTS

Always draw the line to be cut on the tile using a marker or grease pencil. If the tile is shiny and difficult to mark, place masking tape on the tile and mark the tape.

A common problem when cutting tile is straying from the marked line. Once you've strayed from the mark, you cannot force the blade back to the line by twisting the tile. Instead, back up and recut the tile slicing off a small amount of tile until the blade is back on track.

To avoid this problem, use the rip guide when making cross cuts, the miter guide for miter cuts and the bevel table for making bevel cuts, whenever possible.

Another problem is cutting difficult material. To prevent chipping of the material at the end of the cut: first cut 1-1/2 in. of the material then turn off the saw; flip the material around 180º and make the final cut.

Clean the saw table, rip and miter guides, and bevel table frequently during use. Debris from the cut material that can interfere with tool function.

TO MAKE A CROSS CUT

See Figure 17.

Cross cuts are straight 90° cuts. The material is fed into the cut at a 90° angle to the blade.

- Using a marker or grease pencil, mark the area to be cut on material.
- Remove the miter guide.
- Position the rip guide the desired distance from the blade for the cut and securely lock the lever.
- Place the material on the table and firmly against the rip guide.
- Make sure the material is clear of the blade before turning on the saw.
- Turn the on/off switch to the **ON** position.
- Let the blade build up to full speed and wait for the blade to get wet before moving the material into the blade.
- Hold the material firmly against the rip guide and feed the material into the blade.

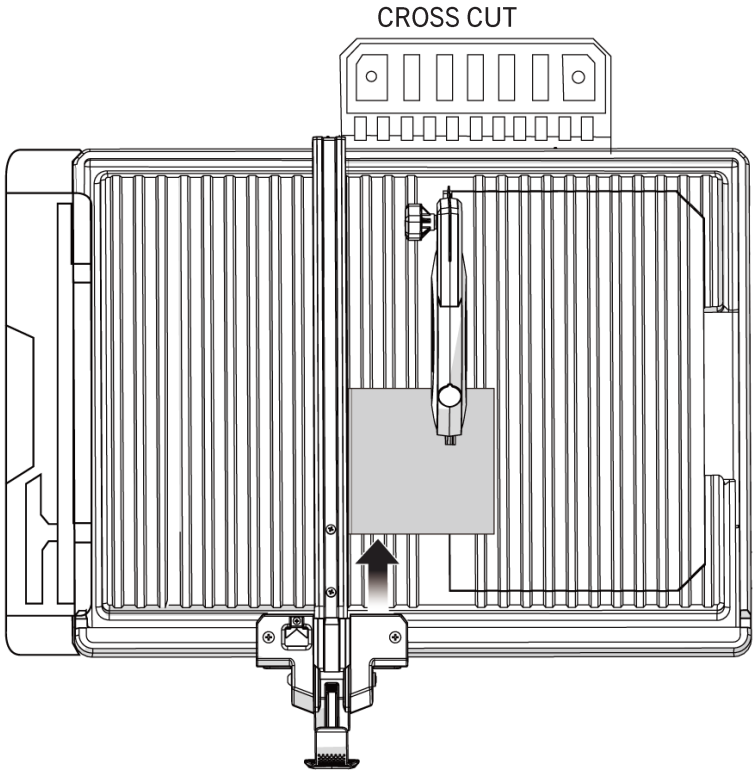


Fig.17

TO MAKE A 45° DIAGONAL CUT

See Figure 18.

45° Diagonal cuts are also referred to as "long point-to-long point cuts".

- Using a marker or grease pencil, mark the area to be cut on material.
- Install the miter guide.
- Adjust miter guide to 45° using angle scale and tighten securely with lock knob.
- Position the rip guide the desired distance from the blade for the cut and securely lock the lever.

  NOTE: For best results when using 12 in. tile, set the rip guide at 9-3/8 in.
- Place the material on the table and firmly push it against the rip guide.
- Make sure the material is clear of the blade before turning on the saw.
- Turn the on/off switch to the **ON** position.
- Let the blade build up to full speed and wait for the blade to get wet before moving the material into the blade.
- Hold the material firmly against the miter guide and slide miter guide along rip guide. Feed the material into the blade.
- When the cut is made, turn the saw OFF. Wait for the blade to come to a complete stop before removing any part of the material.

TO MAKE A MITER CUT

See Figure 19.

Miter cuts are used for cutting outside and inside corners on material at any angle to the blade other than 90°. Miter cuts tend to "creep" during cutting. This can be controlled by holding the workpiece securely against the miter guide.

- Using a marker or grease pencil, mark the area to be cut on material.
- Install the miter guide.
- Position the rip guide the desired distance from the blade for the cut and securely lock the lever.
- Set the miter guide to desired angle using the miter guide scale and tighten securely with lock knob.
- Place the material on the table and firmly against the rip guide.
- Make sure the material is clear of the blade before turning on the saw.
- Turn the on/off switch to the **ON** position.
- Let the blade build up to full speed and wait for the blade to get wet before moving the material into the blade.

DIAGONAL CUT

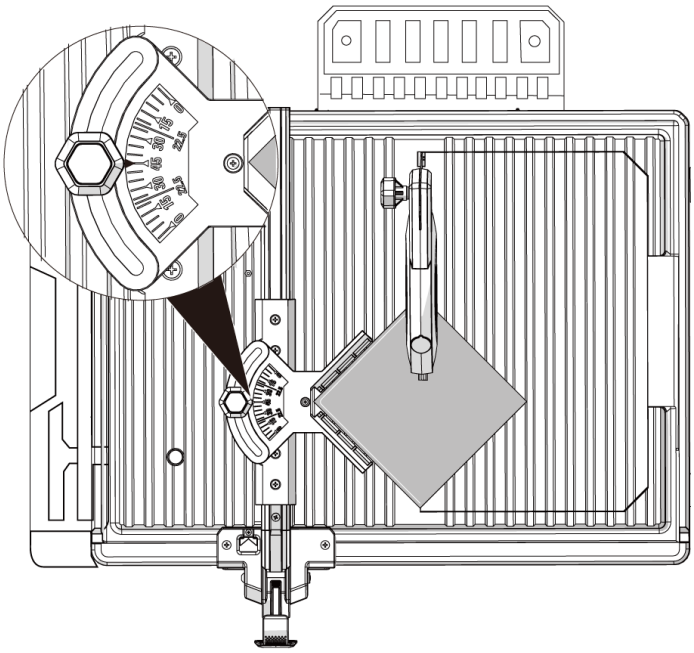


Fig. 18

MITER CUT

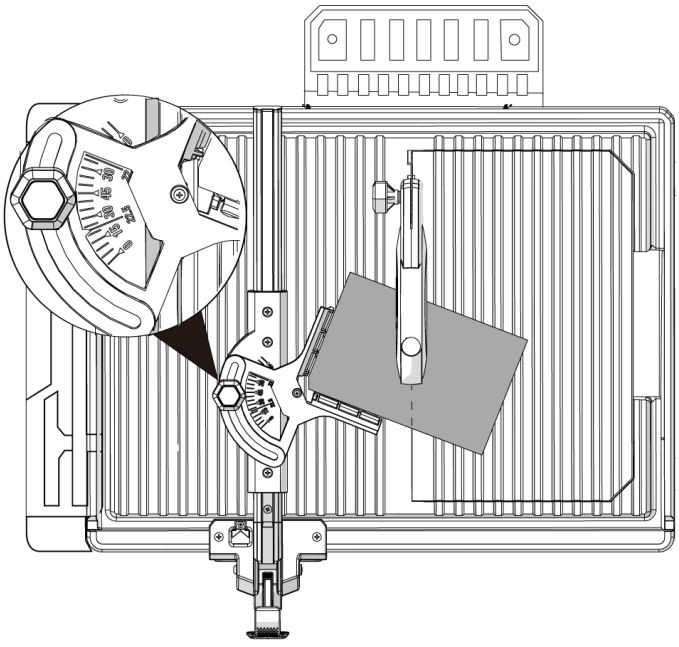


Fig. 19

- Hold the material firmly against the miter guide and slide miter guide along rip guide. Feed the material into the blade.
- When the cut is made, turn the saw **OFF**. Wait for the blade to come to a complete stop before removing any part of the material.

TO MAKE AN L-CUT

See Figure 20.

L-cuts are cuts that remove a piece of tile to fit in a corner, around a cabinet, or a piece of molding and are made by two separate cuts.

NOTE: Only overcut on the bottom or underneath side of the material being cut.

- Using a marker or grease pencil, mark the area to be cut on material.
- Remove the miter guide.
- Position the rip guide the desired distance from the blade for the cut and securely lock the lever.
- Place the material on the table and firmly against the rip guide.
- Make sure the material is clear of the blade before turning on the saw.
- Turn the on/off switch to the **ON** position.
- Let the blade build up to full speed and wait for the blade to get wet before moving the material into the blade.
- Hold the material firmly against the rip guide and feed the material into the blade.
- Make the cut far enough into the material without over-cutting.
- When the cut is made, turn the saw **OFF**. Wait for the blade to come to a complete stop before removing any part of the material.
- Turn the material, adjust the rip guide, and make the second cut along one of the marks. This time overcut the other line, enough for the cut piece to separate from the rest of the material.
- When the second cut is made, turn the saw **OFF**. Wait for the blade to come to a complete stop before removing any part of the material.

L- CUT

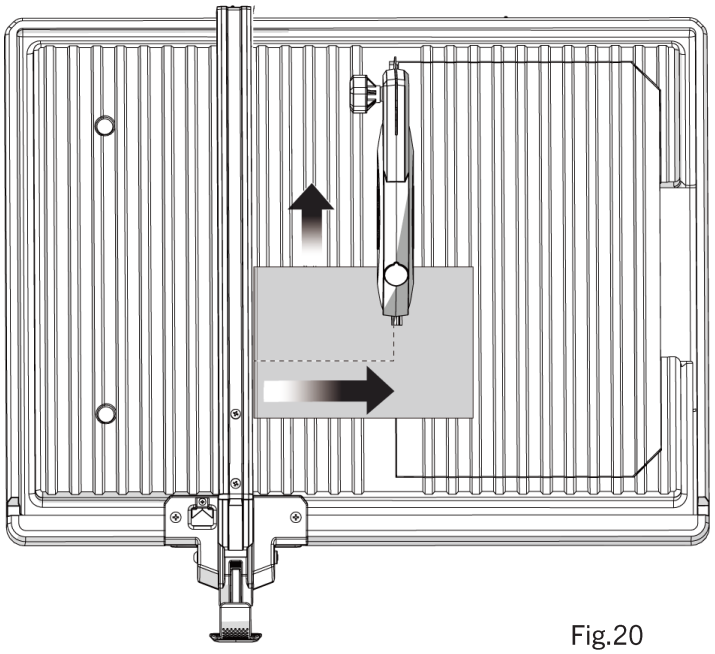


Fig.20

TO MAKE A BEVEL CUT

See Figures 21 - 22.

Beveled 22.5° and 45° cuts can be made using the bevel table.

- Using a marker or grease pencil, mark the area to be cut on material.
- Remove the rip guide.
- Tilt the bevel table.
- On underside of bevel table, pull down the table legs into right angles of the plate.
- Use first notches in legs to rest plate at 22.5° angle.

.

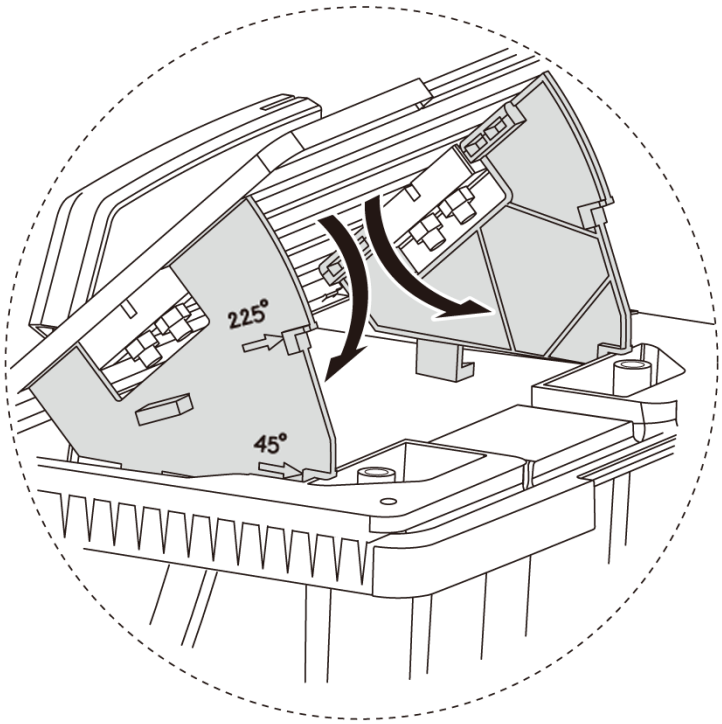


Fig.21

- Use second set of notches to angle bevel table at a 45°angle.
- Turn the on/off switch to the **ON** position.
- Let the blade build up to full speed and wait for the blade to get wet before moving the material into the blade.
- Hold the material firmly against the bevel table and feed the material into the blade.
- When the cut is made, turn the saw **OFF**. Wait for the blade to come to a complete stop before removing any part of the material.

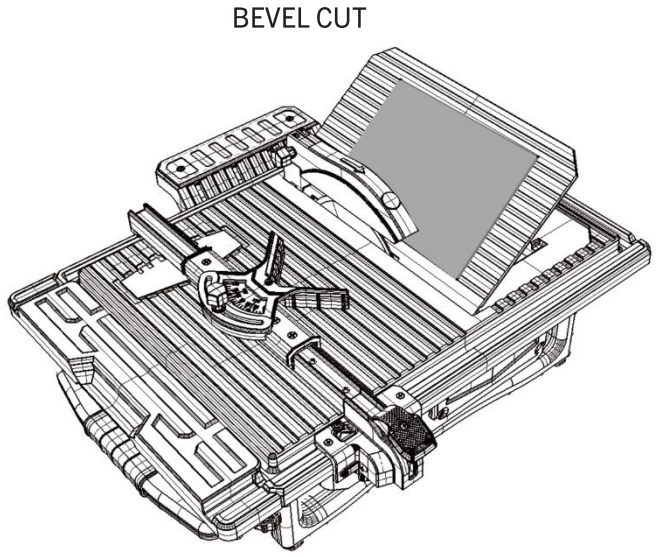


Fig. 22

ADJUSTMENTS

⚠ WARNING:

Before performing any adjustment, make sure the tool is unplugged from the power supply and the switch is in the OFF position. Failure to heed this Warning could result in serious personal injury.

The saw has been adjusted at the factory for making very accurate cuts. However, some of the components might have been jarred out of alignment during shipping. Also, after some use, readjustment will probably become necessary due to wear.

Do not start any adjustments until you have checked with a square and made test cuts to be sure adjustments are needed.

ALIGNING THE RIP GUIDE WITH THE BLADE

See Figure 23.

For the most accurate results, the rip guide must be aligned with the blade.

- Unplug the saw.
- Make sure the blade has been correctly installed on the arbor and the arbor nut has been securely tightened.
- Raise the splash hood.
- Slightly loosen the two screws on top of the rip guide.
- Position the rip guide scale at "0" on the side of the blade.
- Lock the clamp.
- Carefully adjust the rip guide until it is just touching the blade. Do not push against the blade. Adjust the guide until there are no gaps between the blade and the edge of the rip guide.
- Tighten the two screws on top of the rip guide.

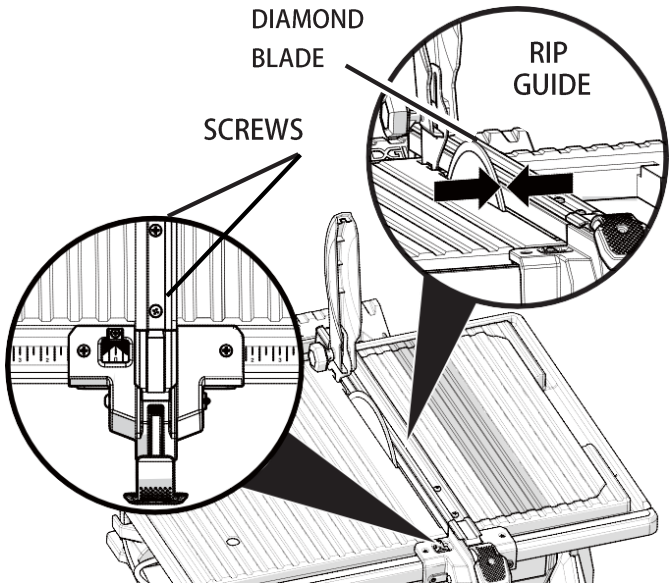


Fig. 23

SPLASH HOOD BRACKET ADJUSTMENT

See Figure 24.

To check the squareness of the splash hood bracket to the rip guide, see **Aligning the Rip Guide with the Blade** earlier in this manual.

After those adjustments have been performed, confirm the alignment of the splash hood bracket to the cutting blade.

- Unplug the saw and remove the bevel table.
- Raise the splash hood.
- Loosen the three bracket screws.
- With the rip guide touching the blade, adjust the splash hood bracket until it is aligned with the rip guide.
- Using a Phillips® screwdriver, securely tighten the screws.

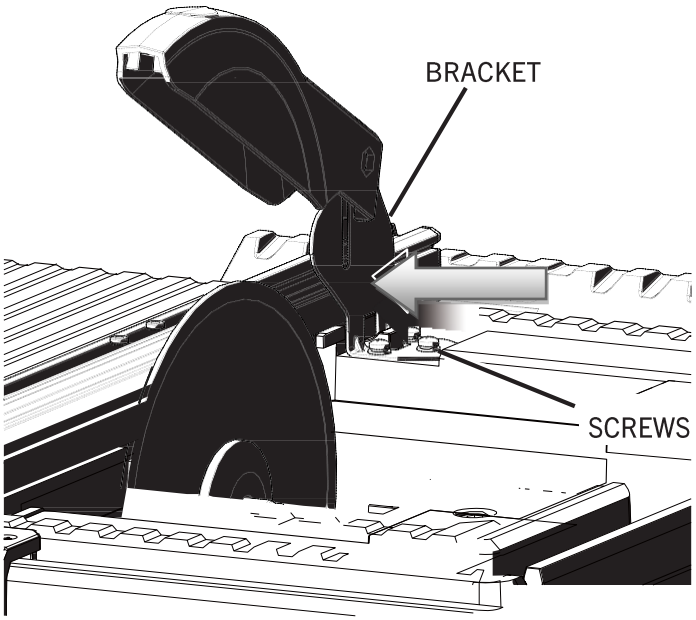


Fig. 24

ADJUSTING LOCKING LEVER ASSEMBLY

See Figure 25.

Over time, the rip guide may become loose. If the rip guide does not lock securely to the saw table, adjustments may be required.

- Unplug the saw and remove the rip guide.
- Using a hex key, loosen the cam screw.
- Turn the cam to tighten as desired.

  NOTE: An arrow is visible on the roller. The wider end of the arrow is the tighter end of the adjustment. The smaller end of the arrow is the looser end of the adjustment.
- When the desired adjustment is made, tighten the cam screw securely.

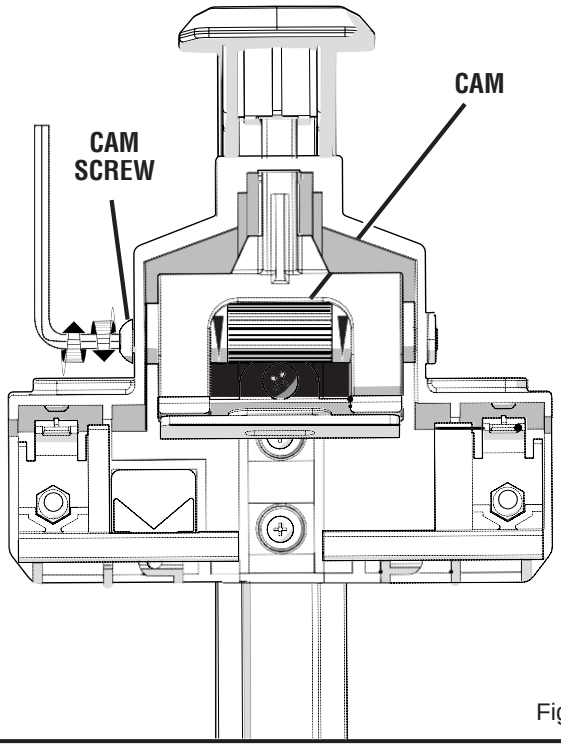


Fig. 25

ADJUSTING RIP GUIDE MOVEMENT

See Figure 26.

If the rip guide does not move smoothly across the rail of the saw, it may be loosened or tightened using the set screws on each side of the rip guide.

- Unplug the saw.
- Using a hex key, loosen or tighten the set screws to adjust the movement of the rip guide according to your preference.
- Place the rip guide on the rail and check for ease of movement. Make further adjustments if needed.

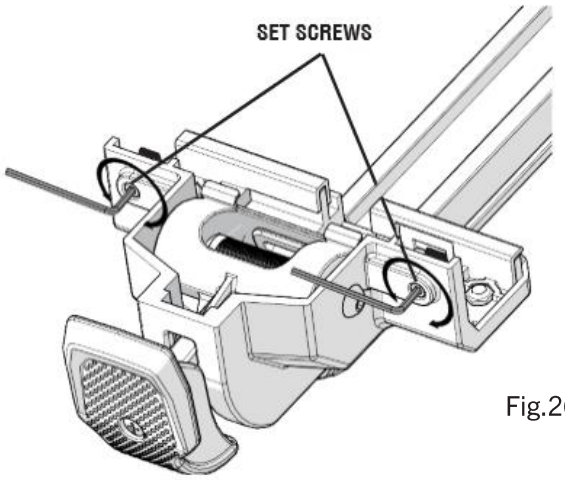


Fig.26

MITER GUIDE ADJUSTMENT

See Figure 27.

With use, the miter guide may require an adjustment to set the angle selector exactly at "0" on both sides of the miter guide scale.

- Unplug the saw.
- Loosen the lock knob and move the angle selector to "0".
- Using a hex key, loosen the set screw on one side of the miter gauge. Set the angle indicator to "0".
- Tighten the set screw until the proper angle is achieved.
- Repeat the above steps on the opposite side of the miter gauge. Make further adjustments if needed.

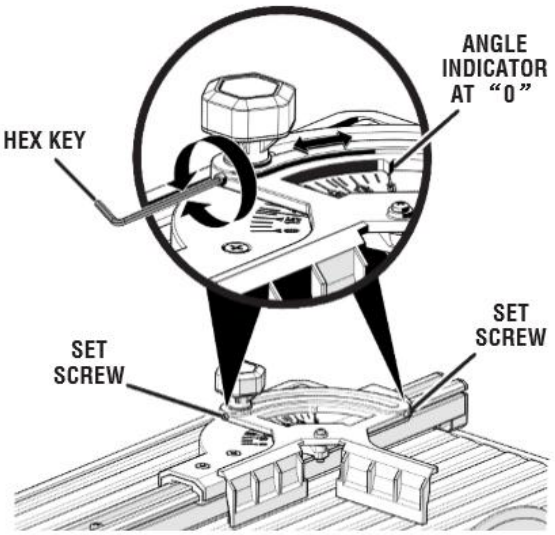


Fig. 27

ADJUSTING THE SLIDING EXTENSION TABLE

The Sliding extension table allows the user to increase the length of the table for greater ripping capacity (maximum 13" rip to the right of blade). To use the extension table;

1. Unlock or remove the rip fence from the table.
2. Unlock the extension table by loosen the two knobs under the table assembly , slide the extension to the desired width. Use the scale on the front rail when a specific width is desired, or measure the distance from the blade for precise cuts.
3. Once the extension table is in the desired position, tighten the knobs to secure the extension in place. The rip fence can now be reinstalled.

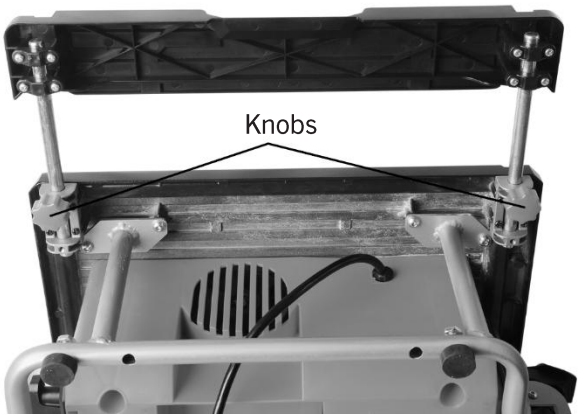


Fig.28

MAINTENANCE

⚠ WARNING:

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.

⚠ WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1 during product operation. If operation is dusty, also wear a dust mask.

⚠ WARNING:

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean clothes to remove dirt, dust, oil, grease, etc.

⚠ WARNING:

Do not at any time let brake fluids, gasoline, petroleum- based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal operating conditions.

CLEANING THE RIP AND MITER GUIDES

During use, the rip and miter guides will become dirty preventing the guides from sliding smoothly. It is important to clean the saw often.

CLEANING THE SAW

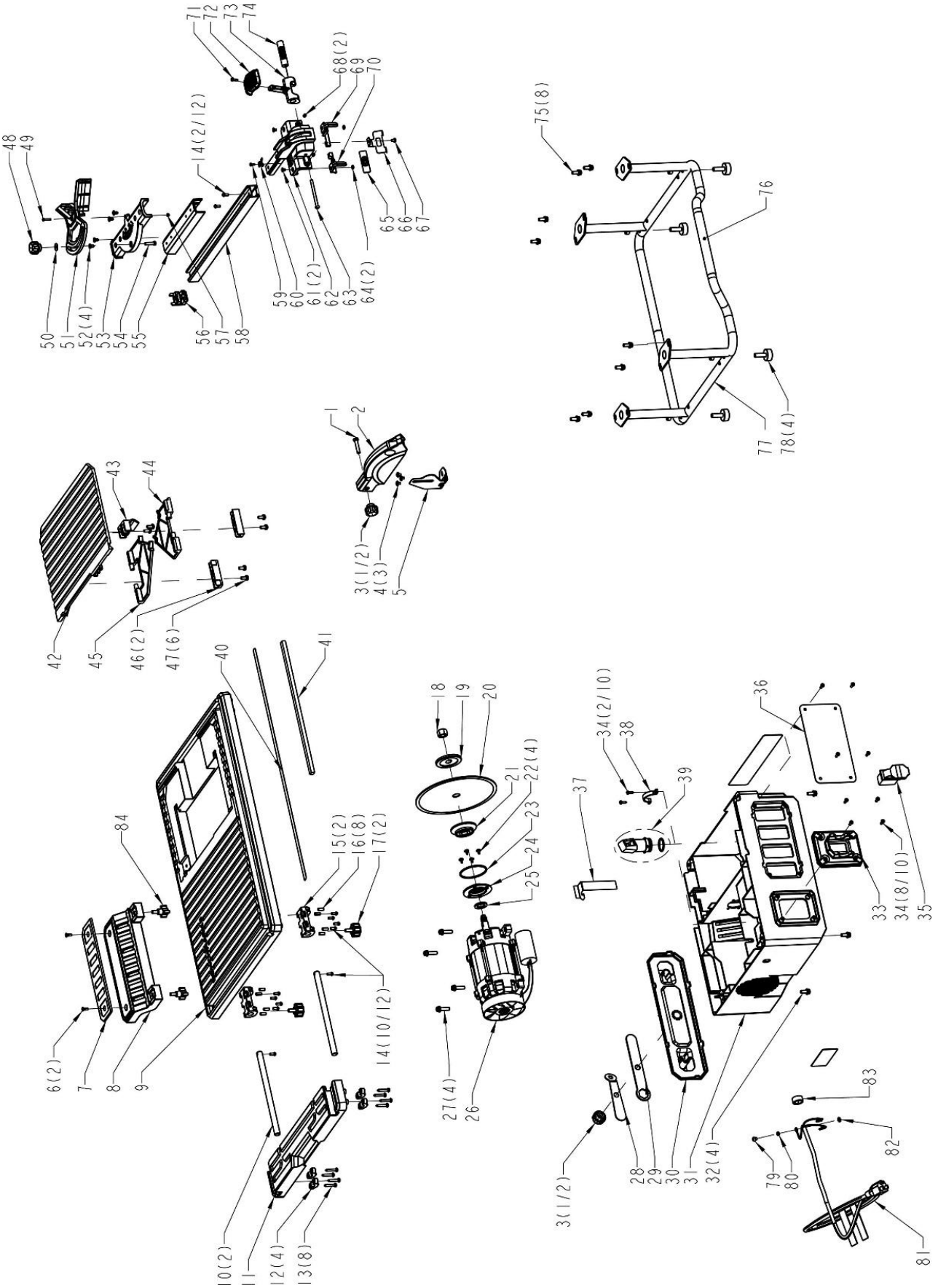
- Unplug the saw.
- Remove the guides and bevel table from the saw.
- Using a small brush and/or water, clean each piece thoroughly removing any trapped debris.
- Remove the overflow drain and empty wastewater into a bucket. Do not allow the water to splash onto the ground or around the machine.

■ Rinse the machine thoroughly.
Discard the wastewater in accordance with local regulations.

■ Replace the overflow drain. Tighten securely.

■ Dry off the tool.

EXPLODED VIEW



PARTS LIST

⚠ **WARNING** When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool.

Any attempt to repair or replace electrical parts on this saw may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665.

Key#	Part #	Part Name	Qty
1	1346-800-001	Hex Bolt	1
2	1346-800-002	Blade Guard	1
3	1346-800-003	Lock Knob	2
4	1346-800-004	Screw	3
5	1346-800-005	Divider	1
6	1346-800-006	Screw	2
7	1346-800-007	Rear Support Table 2	1
8	1346-800-008	Rear Support Table 1	1
9	1346-800-009	Work Table	1
10	1346-800-010	Sliding Bar	2
11	1346-800-011	Extension Table	1
12	1346-800-012	Pressure Plate	4
13	1346-800-013	Tapping Screw	8
14	1346-800-014	Screw	12
15	1346-800-015	Sliding Bar Seat	2
16	1346-800-016	Set Screw	8
17	1346-800-017	Knob	2
18	1346-800-018	Hex Nut	1
19	1346-800-019	Outer Flange	1
20	1346-800-020	Saw Blade	1
21	1346-800-021	Inner Flange	1
22	1346-800-022	Tapping Screw	4
23	1346-800-023	O-ring	1
24	1346-800-024	Water Tray Seal Ring	1
25	1346-800-025	Seal Washer	1
26	1346-800-026	Motor Assembly	1
27	1346-800-027	Cap Screw	4
28	1346-800-028	Wrench 1	1
29	1346-800-029	Wrench 2	1
30	1346-800-030	Winding Plate	1
31	1346-800-031	Water Tray	1
32	1346-800-032	Cap Screw	4
33	1346-800-033	Switch Plate	1
34	1346-800-034	Tapping Screw	10
35	1346-800-035	Switch	1
36	1346-800-036	Brand Plate	1

Key#	Part #	Part Name	Qty
37	1346-800-037	Waterproof Plate	1
38	1346-800-038	Capacitor Clip	1
39	1346-800-039	Drain Plug	1
40	1346-800-040	Scale	1
41	1346-800-041	Sponge	1
42	1346-800-042	Extension Table	1
43	1346-800-043	Lock Plate	1
44	1346-800-044	Support Bracket (L)	1
45	1346-800-045	Support Bracket (R)	1
46	1346-800-046	Support Bracket Seat	2
47	1346-800-047	Bolt	6
48	1346-800-048	Lock Knob	1
49	1346-800-049	Screw	1
50	1346-800-050	Flat Washer	1
51	1346-800-051	Miter Gauge	1
52	1346-800-052	Tapping Screw	4
53	1346-800-053	Miter Gauge Seat	1
54	1346-800-054	Hex Bolt	1
55	1346-800-055	Miter Gauge Sliding Seat	1
56	1346-800-056	Fence Cover	1
57	1346-800-057	Hex Lock Nut	1
58	1346-800-058	Fence	1
59	1346-800-059	Screw	1
60	1346-800-060	Fence Pointer	1
61	1346-800-061	Screw	2
62	1346-800-062	Fence Seat	1
63	1346-800-063	Screw	1
64	1346-800-064	Hex Nut	2
65	1346-800-065	Rubber Pad	1
66	1346-800-066	Lock Spacer	1
67	1346-800-067	Screw	1
68	1346-800-068	Set Screw	2
69	1346-800-069	Slider (R)	1
70	1346-800-070	Slider (L)	1
71	1346-800-071	Tapping Screw	1
72	1346-800-072	Lock Handle	1

Key#	Part #	Part Name	Qty
73	1346-800-073	Lock Wheel	1
74	1346-800-074	Eccentric Shaft	1
75	1346-800-075	Screw	8
76	1346-800-076	Handle	1
77	1346-800-077	Frame Assembly	2
78	1346-800-078	Foot Pad	4
79	1346-800-079	Screw	2
80	1346-800-080	Spring Washer	2
81	1346-800-081	Power Cord Assembly	1
82	1346-800-082	External Tooth Washers	2
83	1346-800-083	Strain Relief	1
84	1346-800-084	Lock Knob	2

WARRANTY

BENCHMARK 7” WET TILE SAW

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

7” WET TILE SAW

BENCHMARK

1346-800
Made in China

BENCHMARK TOOLS CANADA
ST. JACOBS, ONTARIO N0B 2N0

CUSTOMER SERVICE/TECH SUPPORT
1-866-349-8665

LIMITED 5 YEAR* WARRANTY

* This Benchmark TM product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) LIMITED warranty.

C ETL LISTED US
Intertek
ETL3092372
TS65H

READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK