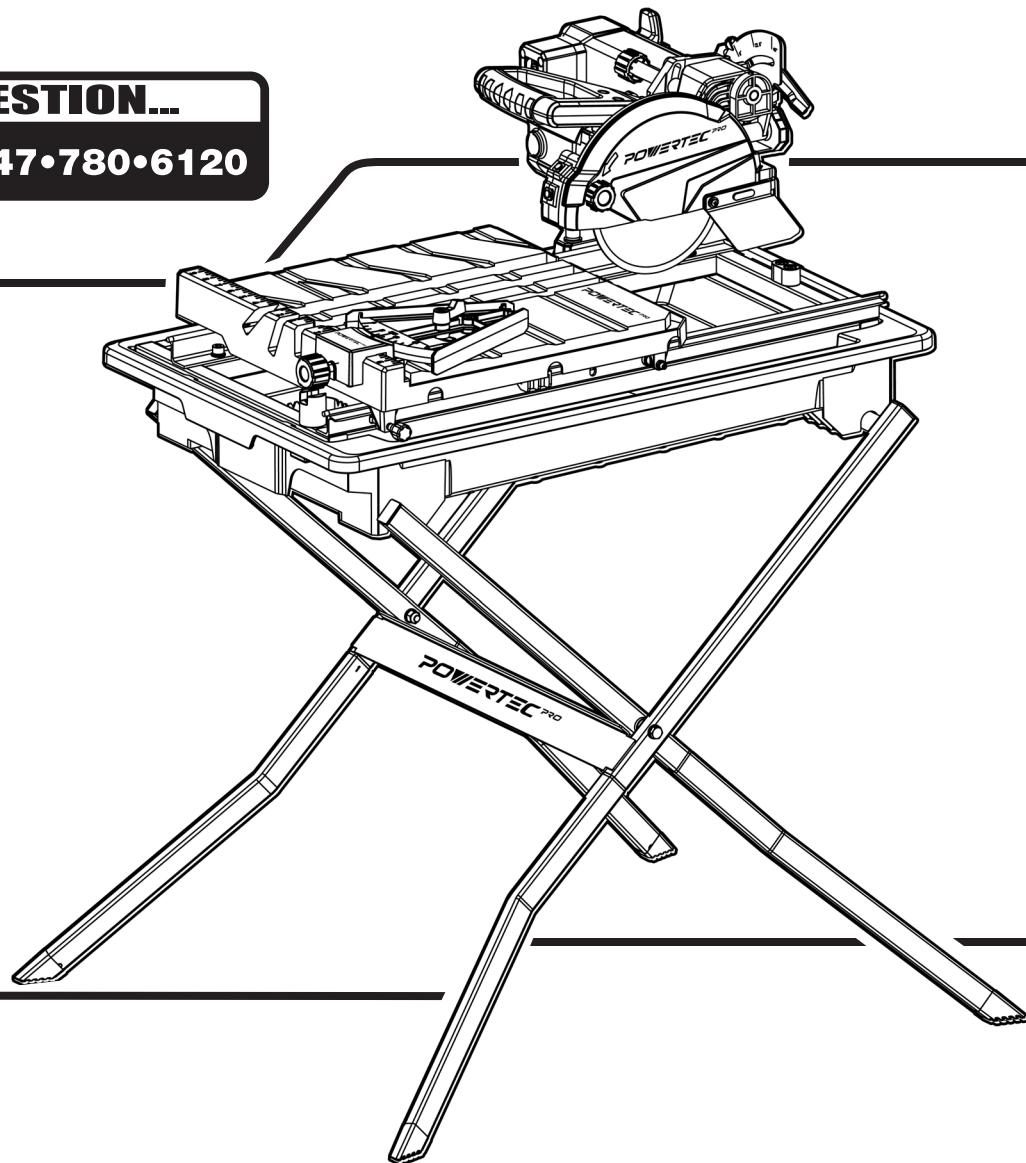


Owner's Manual

POWERTEC PRO™

7" Wet Tile Saw with Stand



Visit us on the web at www.powertecproducts.com



You will need this manual for safety instructions, operating procedures, and warranty.
Put it and the original sales invoice in a safe, dry place for future reference.

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PRODUCT SPECIFICATIONS

Power Supply	120V / 60Hz / 10A
Horsepower	1-1/2 HP
Speed (RPM)	6,000 R/MIN
Blade Diameter	7 in
Arbor Shaft Diameter	5/8 in
Depth of Cut.....	2-1/4 in
Max. Bevel Cut.....	1 in
Max Rip Cut	24 in
Max Diagonal Cut.....	18 in
Adjustable Miter/Bevel.....	0°, 22.5°, and 45°
Overall Dimensions	
(Tile Saw assembly only).....	22-3/4 in (W) x 32-3/8 in (L)
Table Size	17 in x 16-3/4 in
Working Height	34-1/4 in
Power Cord	6-1/2 ft
Certification	ETL
Tile Saw Weight	64 lbs

NOISE DATA

Sound Power Level (Operation)	≤93 dB
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GROUND CONNECTION INSTRUCTIONS

All tools must be connected to ground.

In case of malfunction or fault, the ground connection provides a path of least resistance for the electrical current in order to reduce the risk of electric shock. This tool is equipped with an electrical cable for connecting the equipment to ground and a grounded plug. The plug must be plugged into a corresponding power outlet that is correctly installed and connected to ground in accordance with all the local codes and ordinances.

Do not modify the plug provided. If it does not fit the power outlet, get a qualified electrician to install a suitable power outlet.

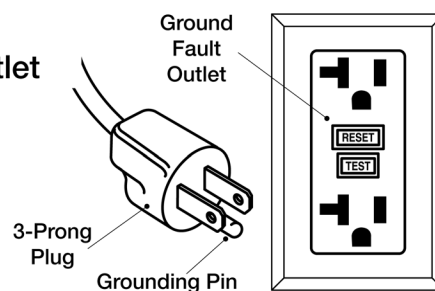
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if you do not fully understand the ground connection instructions, or if you have any doubts whether the tool is correctly connected to ground.

Immediately repair or replace a damaged or worn cable.

This tile saw is designed for use in a 120 V nominal circuit and has a grounded plug. Only connect the tile saw to a power outlet that has the same configuration as the plug. Do not use an adapter with this tile saw.

120V Plug Outlet



GENERAL SAFETY RULES



3

WARNING

For your own safety, read all of the rules and precautions before operating this tile saw.

WARNING

Always follow proper operating procedures as defined in this manual even if you are familiar with use of this tile saw or any tool used with this tile saw. Remember that being careless for even a fraction of a second can result in severe personal injury.

Before using another tool with this tile saw, always read, understand and follow the instructions and safety warnings in the owner's manual for that tool. If you do not have the owner's manual, obtain one from the tool's manufacturer before using it with this tile saw.

You must be familiar with the use of any tool or accessory used with this tile saw. The supplier cannot be held responsible for any accident, injury or damage incurred while using this tile saw with any tool.

It is the responsibility of the purchaser of this tile saw to ensure that any person using this tile saw reads and complies with all instructions and safety precautions outlined in this manual prior to use.

WARNING

Some dust created by operation of power tools can expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. To reduce your exposure to these chemicals, work in a well ventilated area and work with approved safety equipment. Always wear OSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

CAUTION

Do not modify or use this tile saw for any application other than that for which it was designed.

FOLLOW ALL STANDARD SHOP SAFETY PRECAUTIONS, INCLUDING:

- Keep children and visitors at a safe distance from work area.
- Childproof the workshop. Padlock the workshop. Use master switches and remove startup keys.
- Keep work area clean. Cluttered work areas invite accidents. Work area should be properly lit.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of the tile saw.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are NOT safety glasses.
- Wear proper face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

- A guard or any other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs.
- Use the right tool for your job. Do not force your tool to do a job for which it was not designed.
- Use safety equipment such as featherboards, push sticks and push blocks, etc., when appropriate.
- Maintain proper footing at all times and do not overreach.
- Do not use the tile saw's table as a step or seat.
- **CHECK FOR DAMAGED PARTS.** Before using the tool, carefully check to determine if a damaged guard or other part will operate correctly and carry out its intended function. Check the alignment of the moving parts, connections of the moving parts, as well as for any broken parts, the assembly or any other condition that could affect its operation. A guard or other part that is damaged must be properly repaired or replaced by an authorized service center in order to prevent the risk of personal injury.
- **USE THE CORRECT FEED DIRECTION.** Insert the part to be cut to the blade only against the rotation direction of the blade.
- **NEVER LEAVE THE TILE SAW UNSUPERVISED WHILE IN OPERATION. TURN OFF THE POWER SUPPLY.**
- Do not leave the tile saw until it is completely stopped.

WARNING

- To avoid serious injury, turn off and unplug the tile saw before attaching the tile saw base, changing accessories or adjusting the position.

CAUTION

Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

WARNING

Do not use the tile saw until it is completely assembled and you have read and understood this entire operating manual and the operating manual of the tool being used with this tile saw.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE



SPECIFIC SAFETY WARNINGS

⚠️ DANGER

- Risk of serious injury: Keep hands and fingers away from the spinning tile saw blade. Be aware of the blade at all times.

⚠️ WARNING

- Do not use the tile saw for uses other than those for which it was designed.
- Ensure that the water level reaches the indicated level before starting and during any cutting operation.
- Replace the tank water periodically. Working with clean water lengthens the life of the blade and improves its performance.
- Remove the adjustment blade wrench and tools before starting the tile saw.
- When unpacking the tile saw, and also after each use, check for dents or deformations and broken parts and cords. If any of these are found, do not use the tile saw and contact the manufacturer immediately.
- Keep hands away from the cutting area and blade at all times.
- Always use blades with interior diameters that correspond to the tile saw's shaft. A larger interior diameter would cause the tile saw to rotate eccentrically, leading to a loss of control.
- Never use fastening nuts or plates from damaged or incorrect blades. These parts were designed specifically for this tile saw, to provide better functioning and safety during operation.
- Do not use damaged or dull blades.
- Use only the recommended blades, suitable for RPMs that are greater than or equal to the maximum RPM of the tile saw and with holes for the proper shaft.
- Position the blade plates correctly and tighten the nut properly before starting the tile saw.
- Verify that the blade has no cracks or other damage before operation. Immediately replace damaged blades. Do a functional test with no load for at least 30 seconds before using the tile saw.
- Never start the tile saw with the piece being cut in contact with the blade.
- Allow the motor to reach its maximum speed before cutting.

⚠️ CAUTION

- After completing the cut, turn off the switch and wait for the blade to stop completely before setting the tile saw down.
- Always switch off the tile saw before disconnecting it, to prevent an accidental start-up when reconnecting it to the power source.
- Only use the tile saw for cutting ceramic, porcelain, glass, and natural stone.
- Turn off the tile saw immediately if you notice any unusual vibration or any other malfunction. Check the tile saw to determine the cause.
- Pay attention to the dimension of the blades. The center hole in the blade must fit on the shaft with no free play. If not, use a different blade with a proper fit.

⚠️ CAUTION

- Keep clear the area behind the tile saw and don't allow anybody to stay behind the tile saw while working.
- Check integrity of table stroke limiters after any unexpected impact or movement.

Guidelines for using extension cords

Extension cords are only to be used for temporary purposes. They do not replace the need for installation of outlets and proper wiring where necessary.

NOTE: Ensure the extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current that the tile saw will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

NOTE: The table below shows the correct size to be used according to cord length and nameplate ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE @120	EXTENSION CORD LENGTH					
	25'	50'	175'	100'	150'	200'
	RECOMMENDED WIRE GAUGE					
0-5	16	16	16	14	12	12
5.1-8	16	16	14	12	10	NR
8.1-12	14	14	12	10	NR	NR
12.1-16	12	12	NR	NR	NR	NR
NR=Not Recommended						

- Extension cords with an equipment grounding conductor must be used at all times.
- Make sure the extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.
- Protect extension cords from sharp objects, excessive heat and damp/wet areas.
- Extension cords must be a minimum of 16 AWG and be rated for the equipment in use.
- Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

To prevent the GFCI outlet or plug from becoming wet, position the tile saw to one side of the wall-mounted outlet to avoid water dripping on the socket.

Put a drip loop in the cable that connects the tile saw to an outlet. The drip loop's purpose is to keep the cable a safe level below the socket or connector level to prevent water from travelling along the cable and coming in contact with the connection and socket.

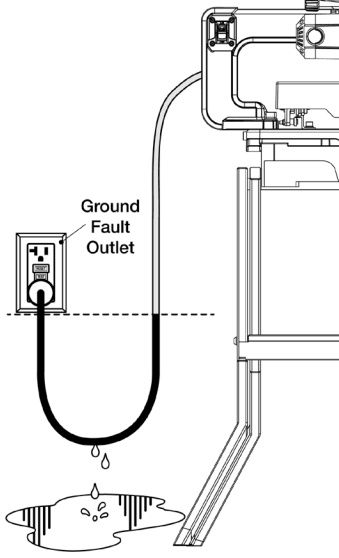
If using an extension cable add a drip loop to the cable connection.

Keep ALL cords off the ground away from settling water.

If the socket or connection is wet, DO NOT unplug the cable. Disconnect the fuse or circuit breaker that supplies power to the tool—unplug—check for the presence of water in the socket.

Set up a Drip Loop:

Figure 1

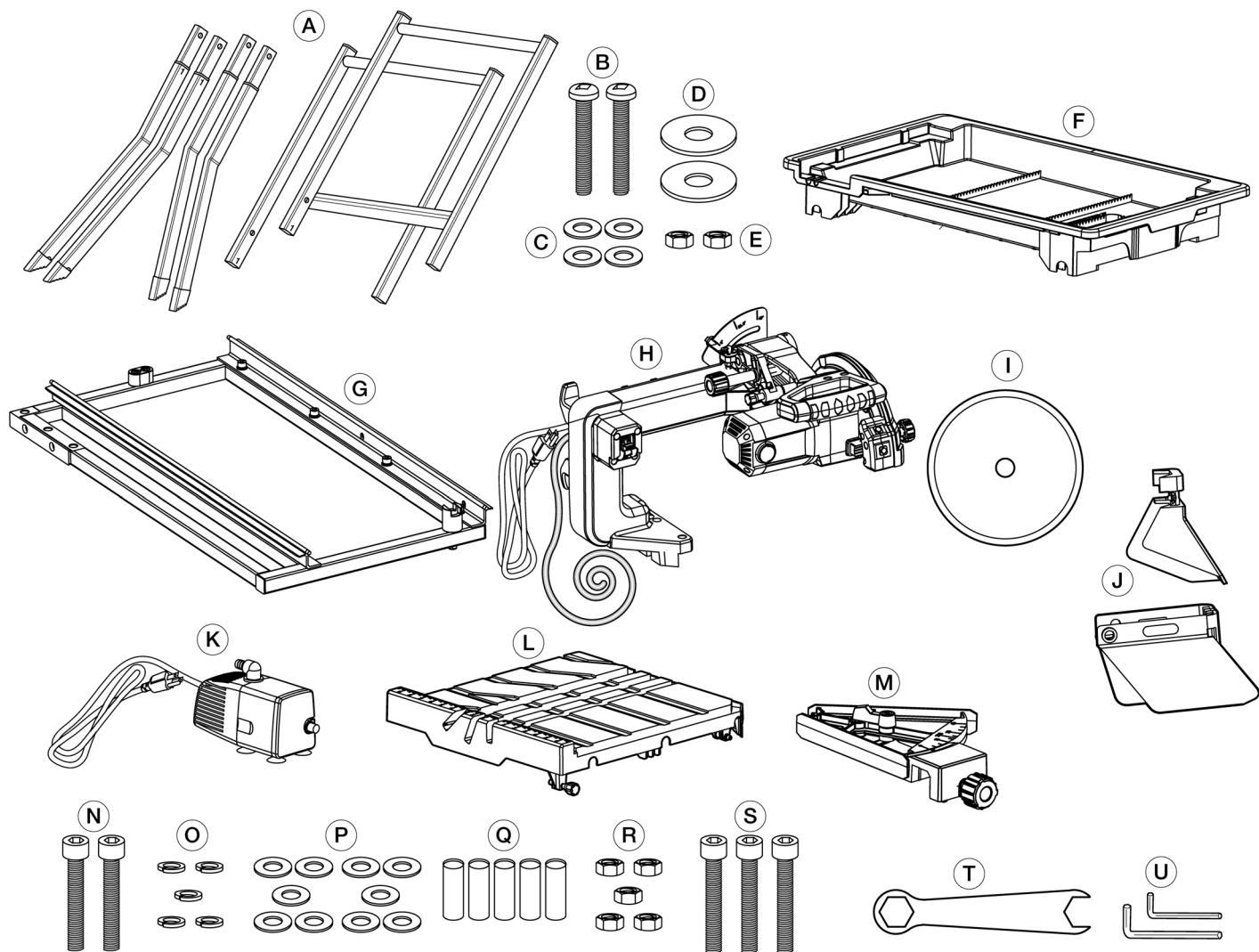


UNPACKING

Check for shipping damage. Check immediately whether all parts and accessories are included.

ITEM	DESCRIPTION	QTY			
Table					
A	27-1/2" Folding Stand (un-assembled)	1	K	Water Pump	1
B	Button Head Socket Screw M8 x 60	2	L	Sliding Table	1
C	Washer 8 x 16 x 1.5t	4	M	Angle Guide	1
D	Nylon Spacer	2	N	Hex Head Socket Bolt M10 x 65	2
E	Lock Nut M8	2	O	Lock Washer #10	5
Tile Saw					
F	Water Tank	1	P	Washer 10.5 x 20 x 2t	10
G	Frame	1	Q	Screw Sleeve	5
H	Support Arm Cutting Head Assembly	1	R	Lock Nut M10	5
I	7-inch Blade	1	S	Hex Head Socket Bolt M10 x 60	3
J	Splash Guard Assembly (un-assembled)	1	T	Blade Wrench	1
			U	Hex Wrench (5mm / 8mm)	2

Figure 2





STAND ASSEMBLY

ASSEMBLE TILE SAW STAND

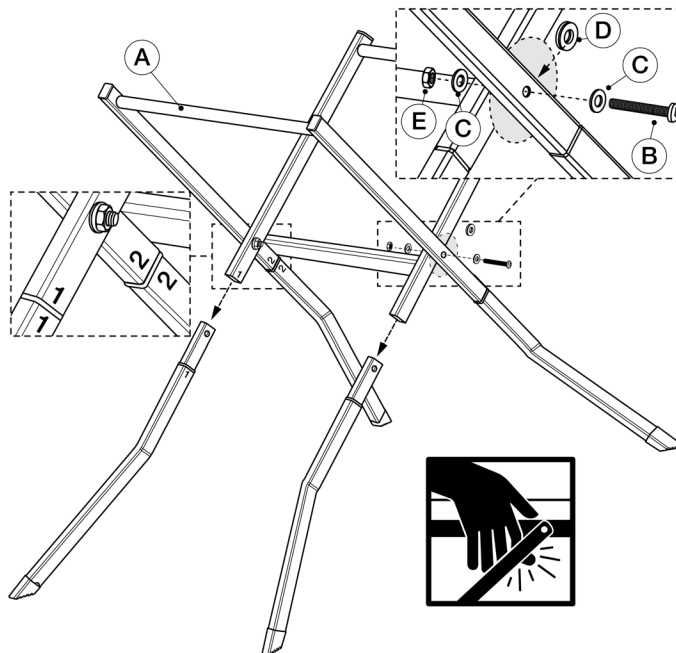
1. See Figure 3. Take the upper portions (with the cross bars) of the stand.
2. Insert the four legs by matching the numbers (1-to-1 / 2-to-2) to the numbers on the upper portion of the stand.
3. After inserting the front and rear legs. Between both legs, place Washer (C) onto Button Head Socket Screw (B) and through the outside leg hole—then place Nylon Spacer (D)—continue insertion of Screw through both supports—then another Washer (C)—secure with Nut (E). Make secure but loose enough to allow for folding and unfolding. Repeat on other side of Tile Saw Stand.

CAUTION

Pinch hazard. Be aware of hands and fingers when expanding and closing the stand.

4. Place onto a level surface.
5. Tile Saw Stand is now ready to use.
6. Maximum weight capacity is 300 lbs.

Figure 3

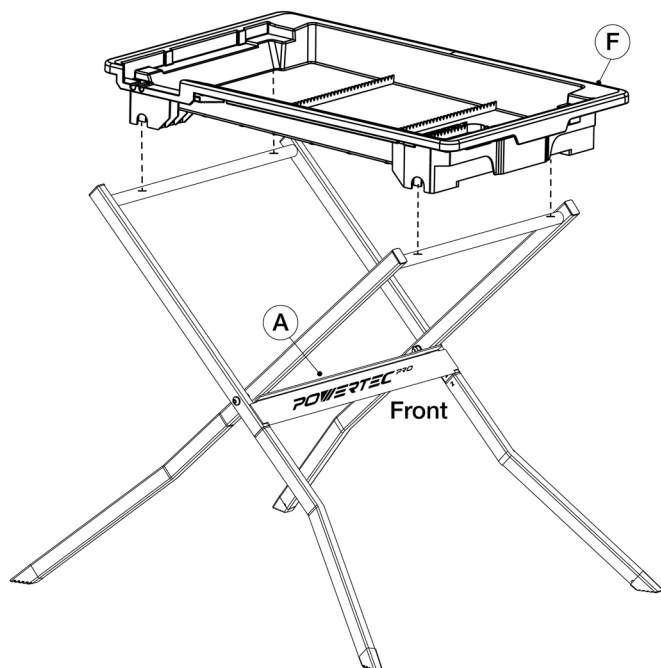


TILE SAW ASSEMBLY

PLACE THE WATER TANK See Figure 4.

1. Identify FRONT of stand by the crossbar. Ensure the Stand is on a flat, level surface and remains stable.
2. Place Water Tank (F) on the Stand by aligning u-shaped notches under the Water Tank onto the round cross-bars of assembled Stand (A). Notches on the Water Tank will hold the Water Tank in place on the Stand.

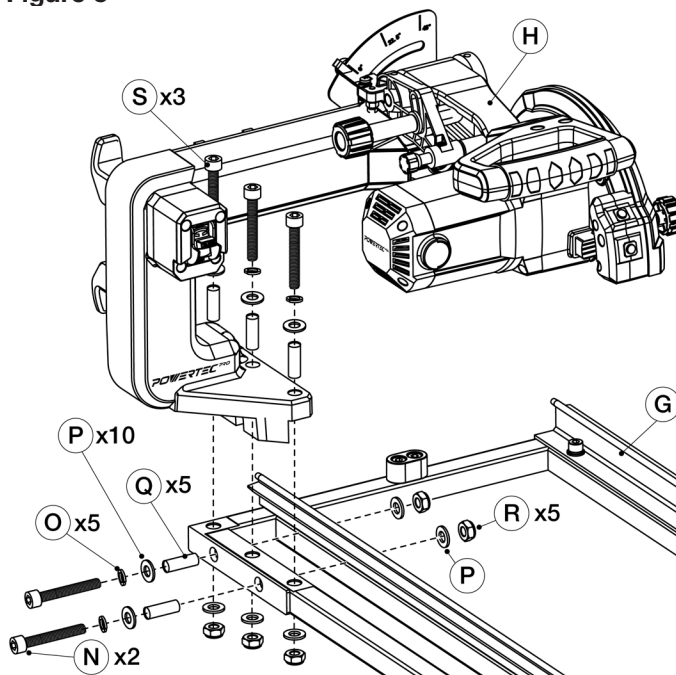
Figure 4



ASSEMBLE CUTTING HEAD / SUPPORT ARM

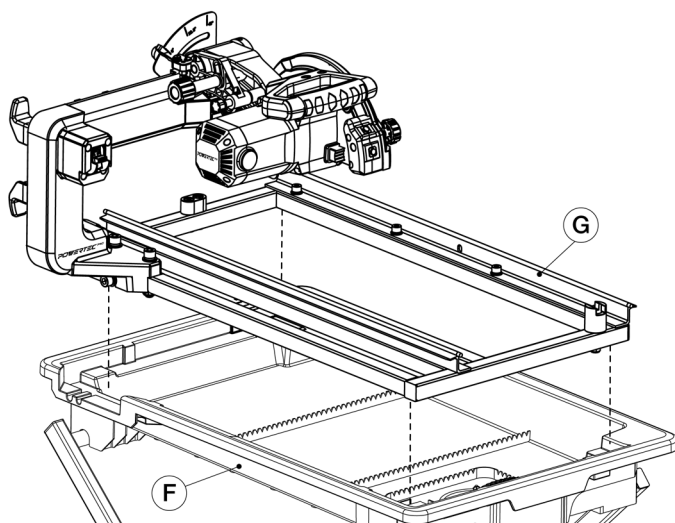
1. See Figure 5. Align Cutting Head/Support Arm (H) onto Frame (G).
2. Pre-assemble 3 ea. Hex Head Socket Bolts M10 x 60 (S) —Lock Washer (O)—Washer (P) and Sleeve (Q). Insert 3 of these sets vertically as shown into the base of Cutting Head/Support Arm (H).
3. Pre-assemble 2 ea. Hex Head Socket Bolts M10 x 65 (N) —Lock Washer (O)—Washer (P) and Sleeve (Q). Insert horizontally into Frame (G) as shown.
4. Secure each set with one Washer (P) and Lock Nut (R).

Figure 5



See Figure 6. Place the Cutting Arm and Frame (G) assembly onto the Water Tank. Place water hose and power cord into slot on back

Figure 6



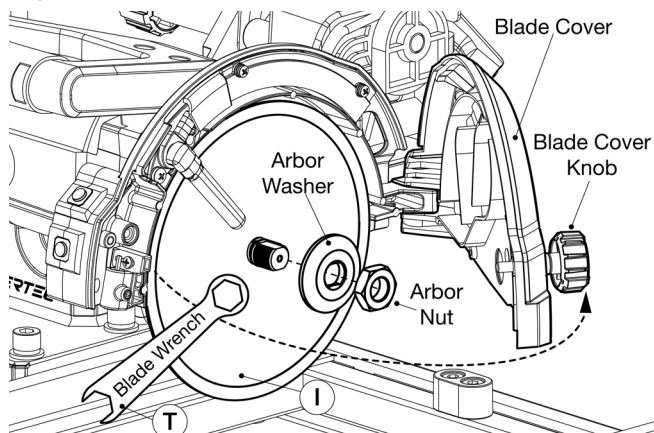
INSTALL THE BLADE See Figure 7.

ALWAYS Unplug the tile saw before installing or changing the blade.

1. To open: Turn the knob on the blade cover COUNTER-CLOCKWISE.
2. Use Blade Wrench (T) provided, engage arbor nut, depress arbor lock located under operating handle and rotate until arbor lock engages. Remove arbor nut by rotating COUNTER-CLOCKWISE with blade wrench and remove outer arbor washer from the motor shaft.
3. With the blade directional arrow pointing COUNTER-CLOCKWISE, fit the blade on the shaft resting flat against the inner arbor washer.
4. Fit the outer arbor washer on the shaft fully resting against the blade and tighten the arbor nut by hand.
5. Press the arbor lock button located under the operating handle, and firmly tighten the nut with the included blade wrench in a clockwise direction, do not over-tighten.
6. Close the blade cover and tighten the knob.
7. To remove the blade, press the arbor lock button and loosen the nut with the blade wrench in an COUNTER-CLOCKWISE direction.

NOTE: This tile saw uses **ONLY 7-inch blades**. Do not attempt to use blades of a different size, or blades with a maximum rotation speed that is less than the speed of the tile saw.

Figure 7



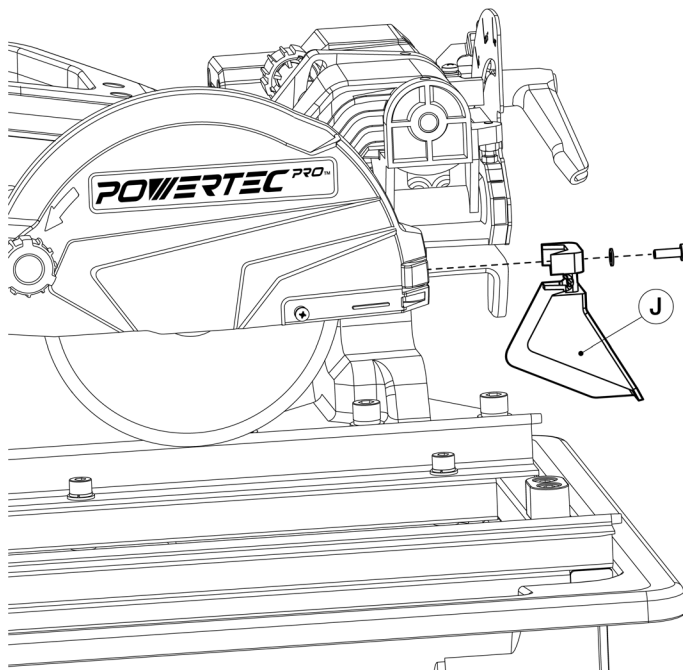
INSTALL THE SPLASH GUARD

1. See Figures 8-9. There are two parts to Splash Guard (J).
2. Remove the screws and washer from the inner blade guard and outer blade cover before attaching the Splash Guards.

NOTE: The screws have different sizes and threads, make note of screw and washer locations.

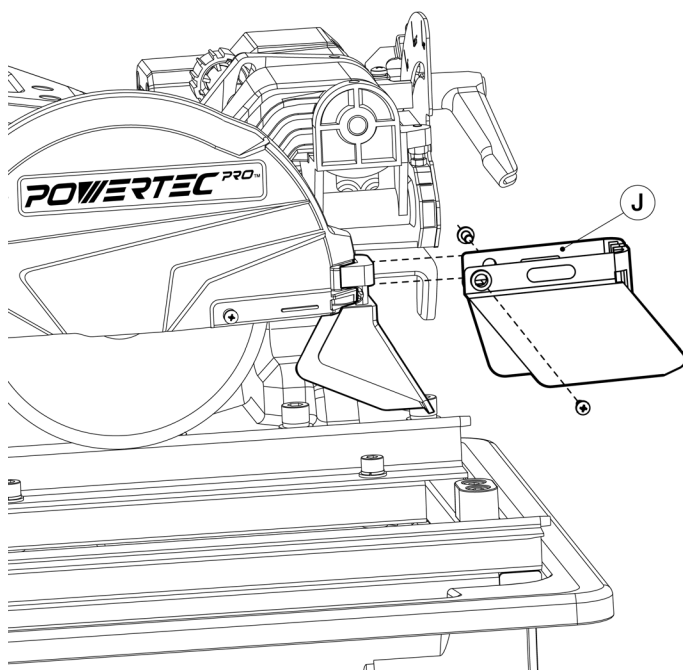
3. Install the smaller, flared Splash Guard first with washer and screw to the back of the Blade Door as shown.

Figure 8



4. See Figure 9. Next install the larger Splash Guard (J).
5. This Splash Guard part will fit around the first Splash Guard.
6. Secure using the screws removed from the blade guard and blade cover.

Figure 9

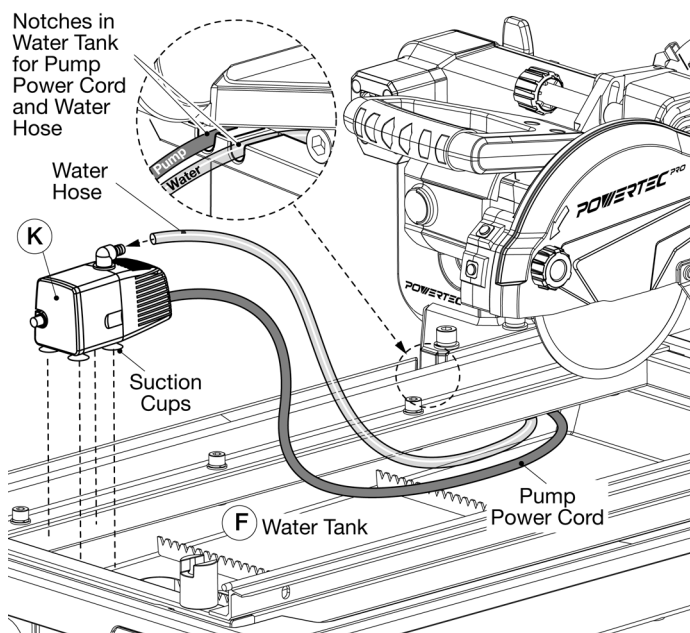


INSTALL THE WATER PUMP See Figure 10

1. Connect the water hose to the pump nozzle by pushing firmly.
2. Place Pump (K) in Water Tank (F) in the designated area for the pump at the front left side of the Water Tank and secure it in position with the suction cups.
3. Pass the pumps electric cord and water hose through the opening provided at the rear left side of the Water Tank and set each in the notch cutouts found back-left on the Water Tank.
4. Plug pump power cord into pump socket assembly (pigtail connector). See Figure 14 for location near cord wrap.

8

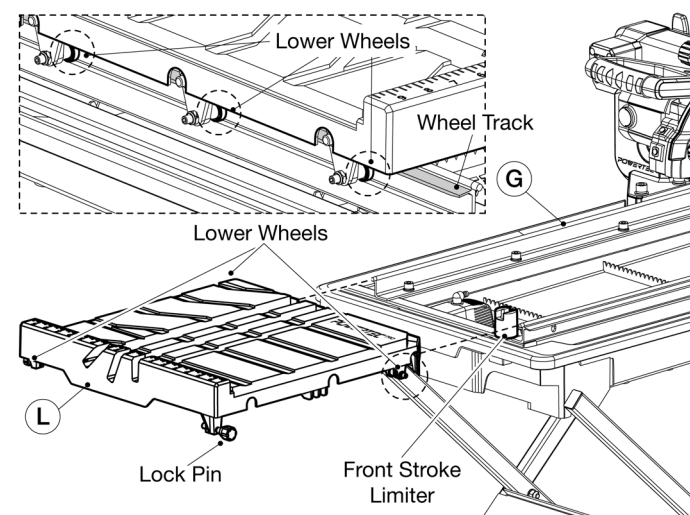
Figure 10



INSTALL THE SLIDING TABLE See Figure 11

1. On Sliding Table (L) be sure the front stroke limiter is in the pass-through position and turn it if necessary.
2. Align the Sliding Table wheels with the guide rails and move it from front to rear to place the Sliding Table on the guide rails.
3. Once the Sliding Table is correctly installed on the guide rails ensure table can move back and forth smoothly, turn the front stroke limiter to the stop position.

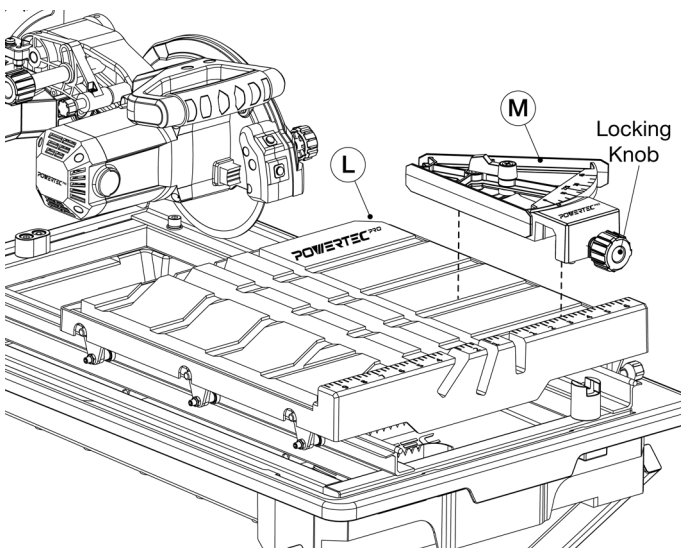
Figure 11



INSTALL THE ANGLE GUIDE See Figure 12

1. Place Angle Guide (M) to the front of Sliding Table (L).
2. Move the guide in the desired position.
3. To secure, tighten the locking knob.
4. Tile Saw is now fully assembled and ready to use.

Figure 12



FILL THE WATER TANK AND CHANGE THE WATER

Filling the water tank:

Ensure that the drain plug at the bottom of the water tank is secure and fill the tank with clean water up to the maximum filling level indicated in the tank.

Changing the water:

1. Unplug the tile saw, place a bucket under the drainage plug and remove the plug to drain the dirty water into the bucket.
2. Rinse the tile saw properly.
3. Dispose of the dirty water in accordance with local regulations.
4. Replace with clean water.

ON / OFF Switch:

The Tile Saw is equipped with an ON/OFF switch which has an incorporated Safety Lock. Removal of the Safety KEY will prevent unauthorized use.

To Start the Tile Saw:

- With the Safety KEY inserted flip the switch UP to power ON tile saw.

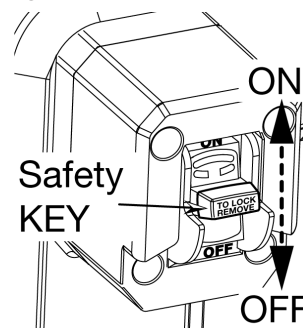
To Stop the Tile Saw:

- Flip the switch DOWN to power OFF tile saw.

To Lock the Tile Saw:

- With the tile saw SWITCHED OFF—Remove the Safety KEY and store it in a safe place.

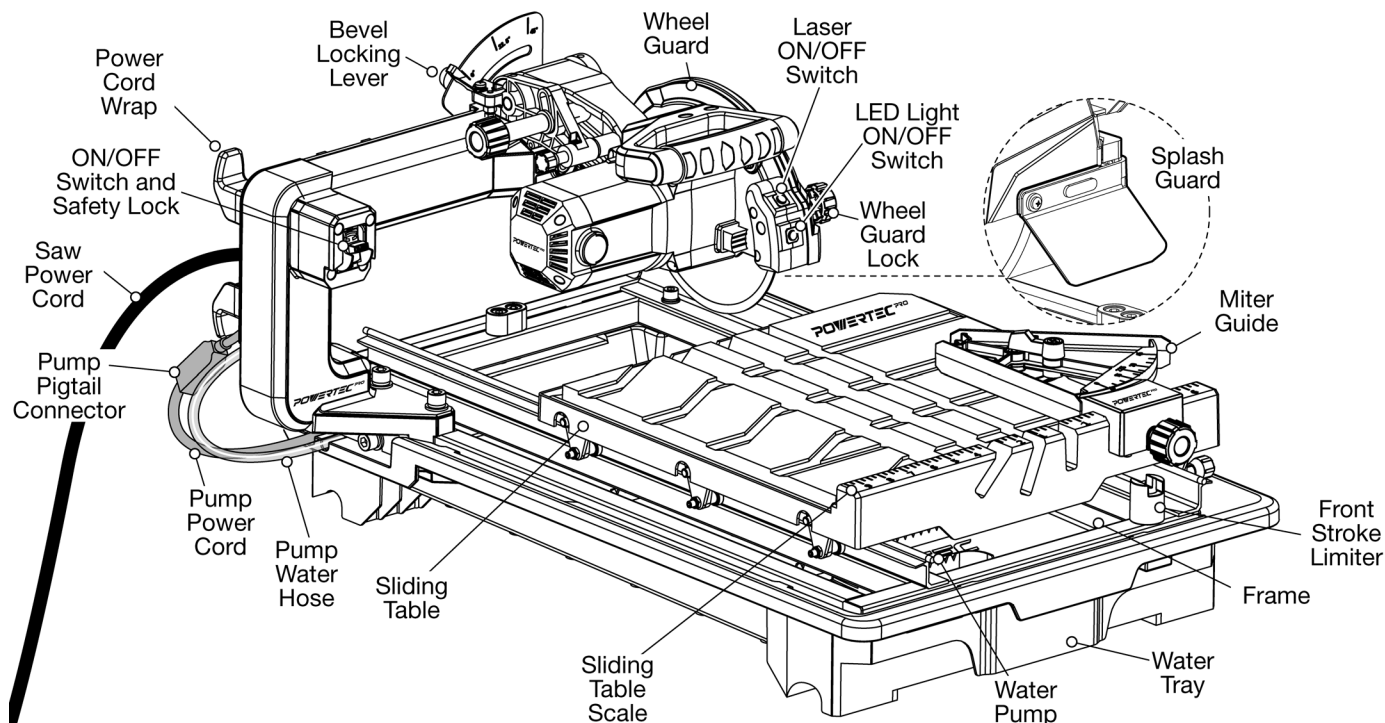
Figure 13



NOTE: Tile saw *WILL NOT* operate without Safety KEY. Before powering on tile saw, ensure Safety KEY is fully inserted into switch.

OPERATIONAL FEATURES

Figure 14



WARNING

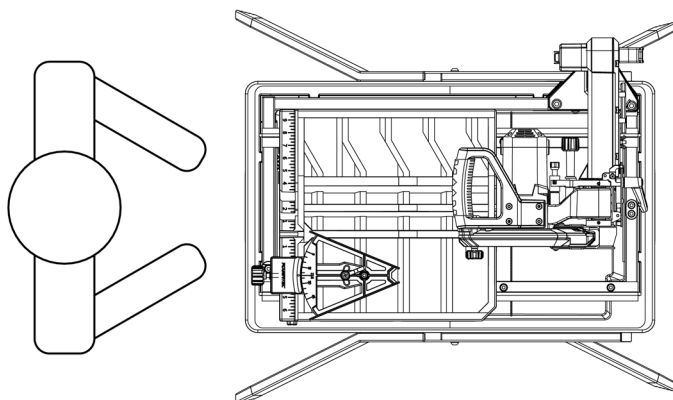
To reduce the risk of accidental start-up, always ensure the switch is in the OFF position before plugging tool into power source.

WARNING

Tile could move back toward the user and cause serious personal injuries. Ensure that tile to be cut is not in contact with the blade before operating the switch to start the tile saw.

Proper Stance When Using the Tile Saw:

Figure 15



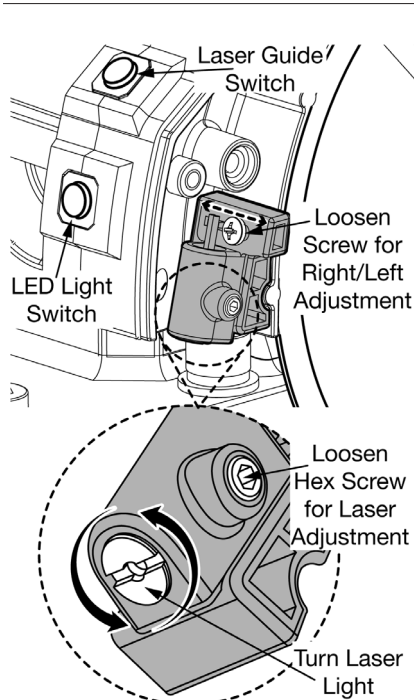
WARNING

Ensure locking pin which blocks vertical movement of the blade is properly inserted in the locked position before making a cut.

Adjustable Laser Alignment System

For more accurate cuts, a laser guide is included with the tile saw. When used properly, the laser guide makes accurate, precision cutting simple and easy. Simply push the switch to turn the laser on or off.

Figure 16



1.) Loosen the Phillips screw. Move the laser guide right or left to adjust the location for alignment—then tighten the screw.

2.) Loosen the Hex screw. Turn the laser light until it is parallel with the blade—then tighten the screw.

DANGER

Laser radiation. Avoid direct eye contact with light source.

WARNING

Use of controls or adjustments or performance of procedures other than those specified herein could result in hazardous radiation exposure.

Using the Plunge Function:

The Tile Saw's Cutting Head can move vertically to make cuts in the center of the tile, for electrical outlets or air registers.

To Release/Lock the Cutting Head: See Figure 17

- Hold the Cutting Head by the handle and disengage the locking pin located behind the motor.
- While holding the head by the handle, loosen the locking knob in the COUNTER-CLOCKWISE direction.

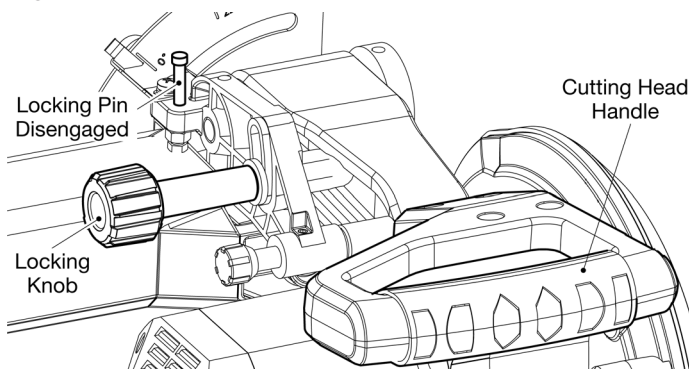
To Lock Cutting Head:

- While holding the Cutting Head at the desired height, turn the locking knob clockwise. Tighten firmly.

NOTE: For the effective completion of any cut, the blade must reach at least 5 mm below the surface of the table.

NOTE: To lock the Cutting Head back to its normal work position, lower Cutting Head and slide the locking pin in its housing and firmly tighten the locking knob.

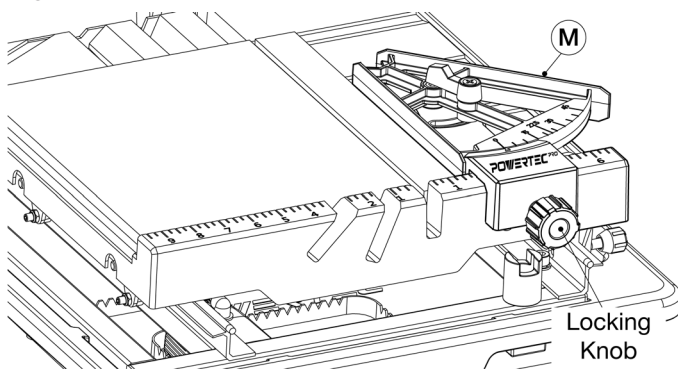
Figure 17



Use the Angle Guide: See Figure 18

- Move Angle Guide (M) to the width of the desired cut and secure the position with the Locking Knob.
- Adjust the angle position to zero for straight cuts or to the desired angle for angle cuts. Secure the desired angle by turning the Locking Knob COUNTER-CLOCKWISE.

Figure 18



MAKE A CUT

Do not use cracked or broken blades.

Do not use side pressure to slow the blades down.

WARNING

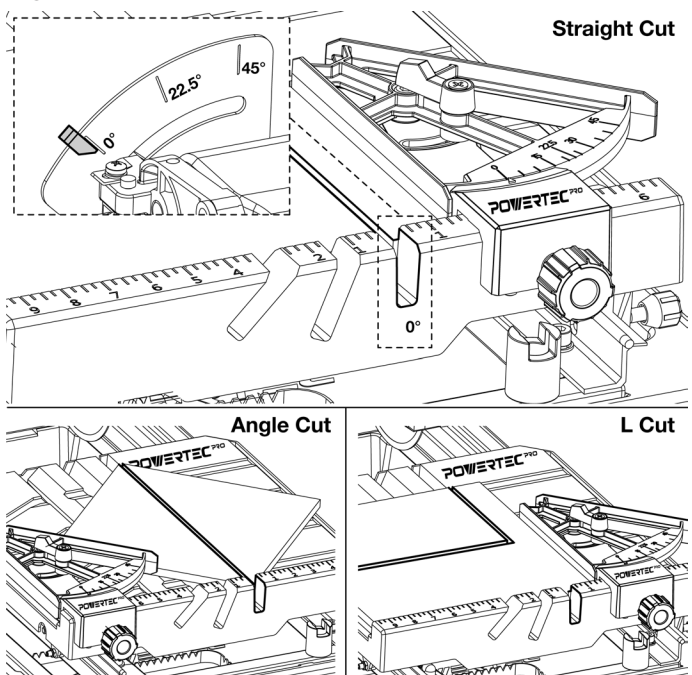
Material detachment could cause serious personal injury or tile saw damage. The feed should be proportional to the cutting ability of the tile saw. Push material through blade at a slow pace.

1. Adjust the Angle Guide angle to zero degrees.
2. Adjust the Angle Guide to the desired width. Secure it in place with the Lock Knob on the Angle Guide.
3. Place the material on the table and hold it firmly against both the Angle Guide and fence.
4. Ensure the material does not touch the blade before turning on the tile saw. Flip ON/OFF switch to ON position.
5. Allow blade to reach maximum speed and wait for water to reach the cooling nozzle and flowing properly before moving the material toward the blade.
6. Hold the material firmly against both the Angle Guide and fence and move the Sliding Table towards the Blade.
7. When cut is complete, switch off the tile saw and wait for the blade to stop completely before removing any part of the material.

Make Straight Cuts: See Figure 19

1. Adjust the angle guide angle to zero degrees.
2. Adjust the Angle Guide to the desired width. Secure in place using the Lock Knob on the Angle Guide.
3. Place the material on the table and hold it firmly against both the angle guide and fence.
4. Ensure the material does not touch the blade before turning on the tile saw. Flip ON/OFF switch to the ON position.
5. Allow the blade to reach its maximum speed and wait for the water to reach the cooling nozzle before moving the material toward the blade.
6. Hold the material firmly against both the angle guide and fence and move the sliding table towards the blade.
7. When cut is complete, switch off the tile saw and wait for the blade to stop completely before removing any part of the material.

Figure 19



Make an Angled Cut:

1. Adjust the Angle Guide to the desired angle. Secure it in place with the Lock Knob on the Angle Guide.
2. Place the material on the table and hold it firmly against both the Angle Guide and fence.
3. Ensure the material does not touch the blade before turning on the tile saw. Flip ON/OFF switch to ON position.
4. Allow blade to reach maximum speed and wait for water to reach the cooling nozzle and flowing properly before moving the material toward the blade.
5. Hold the material firmly against both the Angle Guide and fence and move the Sliding Table towards the blade.
6. When cut is complete, switch off the tile saw and wait for the Blade to stop completely before removing any part of the material.

Make an L-Cut:

L-Cuts are cuts that remove a part of the tile so that the tile fits in a corner, around an electrical or inspection box, or a piece of moulding, and it is achieved by means of two separate cuts.

Setup to cut the material to the desired width using the instructions for the straight cut.

1. Using a marker or pencil, mark the lines to cut on the material.
2. Adjust the angle guide to desired width—secure it in place.
3. Place the material on the table and hold it firmly against the angle guide and fence while ensuring the material does not touch the blade before switching on the tile saw and move the ON/OFF switch to the ON position.
4. Allow the blade to reach its maximum speed and wait for it to become wet before moving the sliding table toward the blade.
5. Hold the material firmly against the angle guide and fence and move the material to be cut toward the blade.
6. Make the cut to the marked length, without cutting excessively.
7. Flip the ON/OFF switch to the OFF position and turn the material around to cut along the other marked line.
8. After making the cut, switch off the tile saw. Wait for the blade to stop completely before removing any part of the material.

Make a Miter/Bevel Cut: See Figure 20

Miter/Bevel cuts of 22.5° and 45° can be made by tilting the Cutting Head.

1. Move Sliding Table (L) to desired work position ensuring Cutting Head rotates without Blade interference with the table.
2. Release the Miter/Bevel locking lever located at the rear of the tile saw and tilt Cutting Head to desired angle. Firmly re-lock the locking lever ensuring the table does not come into contact with blade or any point in the table path.

NOTE: The 0° and 45° position is factory calibrated. If it adjustment is needed, see Adjustments section in manual.

NOTE: Ensure that the Cutting Head is firmly locked in its position before starting to cut.

WARNING

Possible injury to the user and damage to the Sliding Table. Do not place the Cutting Head at an angle other than 0°, 22.5°, or 45°.

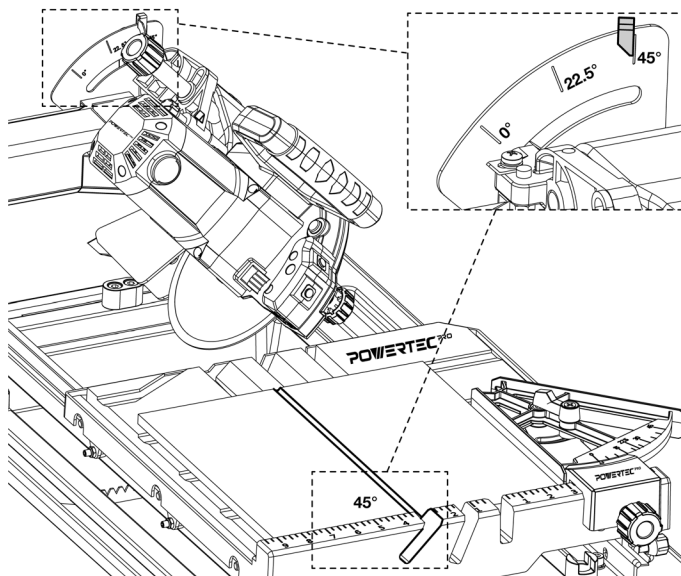
Place the Angle Guide in the appropriate position according to the width of the tile to be cut.

3. Place the tile to be cut on the sliding table and hold it firmly against the Angle Guide.

NOTE: When the tile is located to the right of the Cutting Head, it must be placed face down for an outside miter/bevel cut.

4. Flip the ON/OFF switch to the ON position. Allow the blade to reach its maximum speed and wait for water to arrive at the cooling nozzle and is flowing properly before moving the sliding table towards the blade.
5. When cut is complete, switch off the tile saw and wait for the blade to stop completely before removing any part of the material.

Figure 20

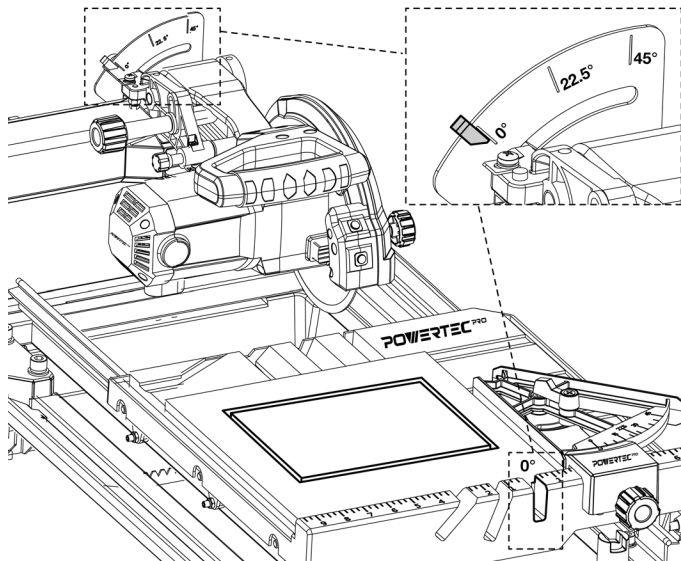


Make Plunge Cuts: See Figure 21

To make square cutouts in the center of the tile for electrical outlets or air registers, use the plunge function.

1. Mark the lines of the area to be cut with a pencil or marker.
2. Hold handle and release the Cutting Head by sliding out the locking pin and loosening the locking knob.
3. Locate the tile in the center of the table with the visible side upwards and align the marks with the blade.
4. Turn the ON/OFF switch to the ON position. Allow the blade to reach its maximum speed and wait for the water to arrive at the cooling nozzle.
5. Lower the blade to the tile without cutting further than the marked line.
6. When cut is made, lift the Cutting Head, and switch off the tile saw.
7. Repeat the process on the other marked lines.

Figure 21





TILE SAW MAINTENANCE

This tile saw has been calibrated at the factory to ensure accurate cuts. However, some of the components may have become misaligned during transport. Also, with the passage of time, readjustment may be required due to wear.

To guarantee the SAFETY and RELIABILITY of the tile saw, repairs and maintenance must be carried out by an authorized service center or other qualified service organizations, always using identical spare parts.

NOTE: Contact Customer Service for technical support.

WARNING

When maintenance requires replacement parts use only original spare parts. Use of any other part can create a hazard or cause damage to the tile saw.

Clean the Tile Saw:

It is important to clean the tile saw frequently.

During use, the Angle Guide and other tile saw components get dirty, preventing them from sliding smoothly.

Unplug the tile saw before carrying out any adjustments, repairs, or maintenance.

Do not use aggressive cleaning products to clean the tile saw. Only use mild soap and a damp cloth for cleaning.

Do not submerge the tile saw in water.

- Spray the table with a hose, and then with a small brush and water clean each part thoroughly to remove any trapped residue.
- Remove drain plug and empty dirty water in a bucket. Clean the water tank by spraying it with a hose or using a wet cloth.
- Rinse the tile saw properly.
- Dispose of the wastewater in accordance with local regulations
- Replace the rubber drain plug.
- Dry the tile saw.

Remove the Sliding Table:

The sliding table can be removed to carry out maintenance and cleaning tasks.

- Turn the travel limiter located at the front of the frame until the slot is aligned with the table.
- Remove the table by moving it back towards you and at the same time as holding it firmly to prevent it falling to the floor.

WARNING

Take care not to knock the guide rails or the wheels of the table's sliding system, to prevent faults or maladjustments.

ADJUST THE SLIDING TABLE

If the table does not slide easily, or there is free play between the guide rails and wheels, or moves from side to side, or is misaligned with the blade, then adjustments must be made.

NOTE: Contact Customer Service to receive technical support and carry out the adjustment for smooth and accurate table sliding.

Adjust the Table Wheels:

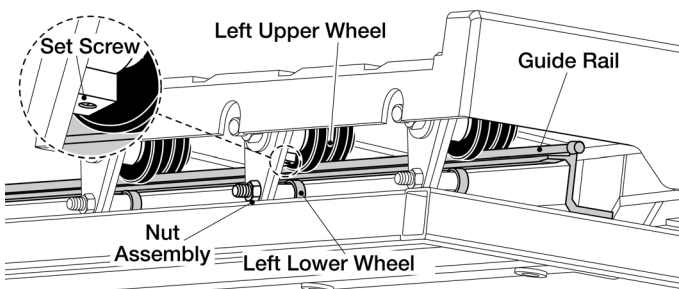
If the table has excessive play on the guide rails with too much side to side or up and down movement, or if there is a significant bump felt in the table movement, table wheel adjustment may be required.

Determine if the **Left Upper Wheels** are all in line and properly rolling on the guide rail. With all three left upper wheels on the left upper guide rail, place slight downward pressure on the table and move the table from front to back without allowing the end wheels to move off the guide rail and ensuring all three wheels are rolling together. If one or more wheels is not rolling, then upper wheel adjustment will be necessary.

To Adjust...

- Unplug the tile saw.
- See Figure 22. Remove table from guide rails and remove Left Center Lower Wheel from the table by removing the outer nut from the shaft and sliding the axel out from the table mount.
- Slightly loosen the Set Screw under the Left Upper Center Wheel so that the eccentric sleeve can freely rotate and move left to right within the table axel mount.
- Place the table back onto the guide rails ensuring all three upper wheels are positioned on the left guide rail. With slight downward pressure on the table, roll the table from front to back without allowing the end wheels to move off the guide rail and ensure all three wheels are rolling together. Rotate the upper center wheel axel until the center wheel is contacting the guide rail and the wheel is in line with the other two upper wheels.

Figure 22



NOTE: The left center upper wheel is the only upper wheel with an adjustment. The outer two upper wheels do not have adjustments.

- Once proper guide rail contact and alignment are verified, carefully tighten the set screw under the upper center wheel. Recheck movement of the upper left wheels on the left guide rail and re-adjust as required.
- Reinstall the left lower center roller and adjust by turning the eccentric axel shaft until the lower wheel touches the bottom of the guide rail. Carefully tighten the outer nut and ensure proper table movement.

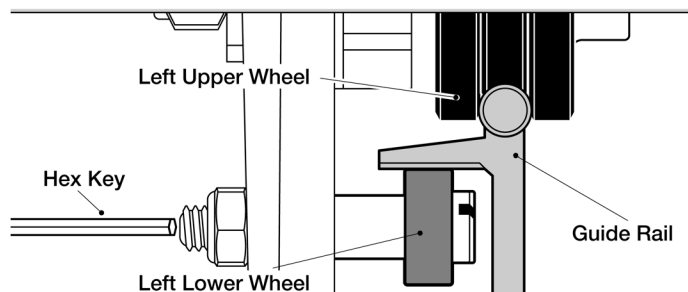
Adjusting Excessive Play in the Table:

If the upper left table wheels are in proper adjustment, but there is excessive play in the table or if the table movement seems to bind as the table is moved from front to back, then left lower wheels will require adjustment.

To Adjust...

- Unplug the tile saw.
- See Figure 23. With all three left upper wheels on the left guide rail, move the table from front to back without allowing the end wheels to move off the guide rail. Ensure that all three lower wheels are rolling together without excessively binding on the lower part of the left guide rail.

Figure 23



NOTE: If any of the three lower wheels are binding, then these wheels must be adjusted first to properly set the adjustments.

- Place the correct size hex key into the outer end of the lower wheel axle and use a wrench to slightly loosen the outer nut.
- Rotate the lower wheel axle with the hex key until the lower wheel touches the bottom of the guide rail. While holding the hex key, carefully tighten the outer axle nut. Move the table from front to back as before and verify that the adjustment is correct. Re-adjust as necessary before adjusting the other lower wheels.

NOTE: The left lower wheel axles are eccentric and the up and down adjustment of the three lower wheels are made by rotating the wheel axles until the camshaft rotation allows the lower wheels to make proper contact with the lower part of the guide rail.

- Make adjustments to the other two lower wheels as required.

NOTE: Check that all rollers are rolling properly after each adjustment.

- Once all rollers have been adjusted, check for proper movement of all rollers and re-adjust any of the wheels as required.

Adjustments to Square Table Path to Blade:

Check tile saw by making a straight cut. If cut width varies from front to back or if there is excessive tile chipping on one side of the cut, but not the other. Adjustments may be necessary to improve the tile saw's accuracy.

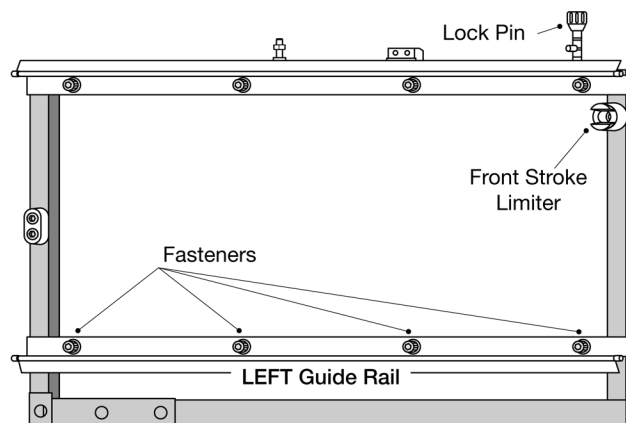
NOTE: Prior to adjusting the guide rails, ensure the table wheels are in adjustment per previous section **Adjust the Table Wheels**.

Using a long square with the short end placed against the table fence, check that the long end of the square is at a consistent distance from the blade as the table is moved from front to back. If there are significant variations, then the left guide rail will require adjustment.

To Adjust...

- Unplug the tile saw.
- See Figure 24. Loosen the four fasteners that lock down the left guide rail so that the guide rail can be slightly moved.
- With the square on the table, move the table from front to back and adjust the guide rail until the long end of the square is parallel to the blade throughout the table movement.

Figure 24



NOTE: To avoid warping the guide rail, all four fasteners must be slightly loose before adjusting the guide rail.

- Carefully tighten the left guide rail fasteners and re-check that the long end of the square is at a consistent distance from the blade as the table is moved from front to back. Verify that the blade is centered in the table slot. Re-adjust as required.

NOTE: Verify that the right upper wheels are centered on the right guide rail. If wheels are not centered, loosen the four right guide rail fasteners, adjust the right guide rail as appropriate and re-tighten the fasteners.

NOTE: Make sure the table stop is still functional so that the table does not slide off the back off the guide rails and that the table can be properly removed from the front of the tile saw. If the stop is not working properly, re-adjustment will be required.

NOTE: Make sure the table lock is still functional so that the table can be locked to the guide rails for transport of the tile saw. If the lock is not working properly, re-adjustment to the right guide rail will be required.

⚠ WARNING

To prevent faults or maladjustments, take care not to knock the guide rails or the wheels of the table's sliding system.

ADJUST THE BLADE ANGLE

The blade angle has been set in the factory, but if the angle is not correct, it must be adjusted.

Figure 25

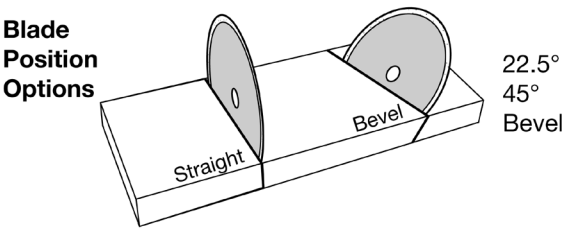


Figure 26

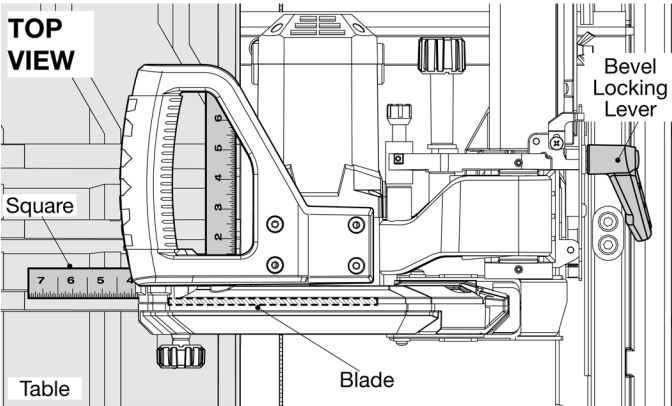


Figure 27

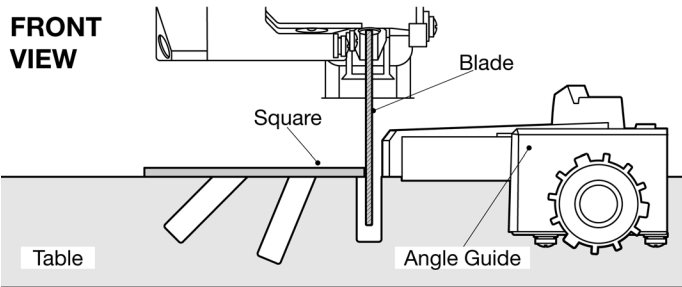
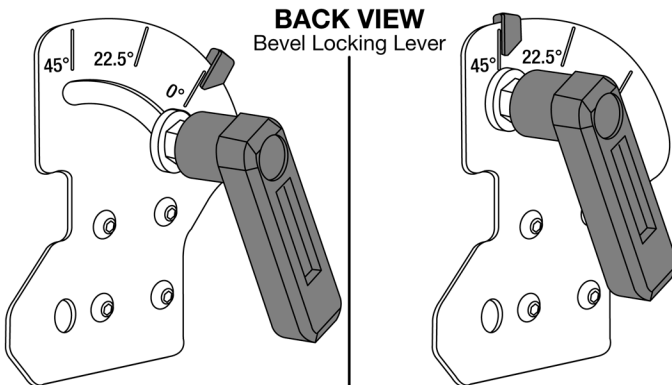


Figure 28



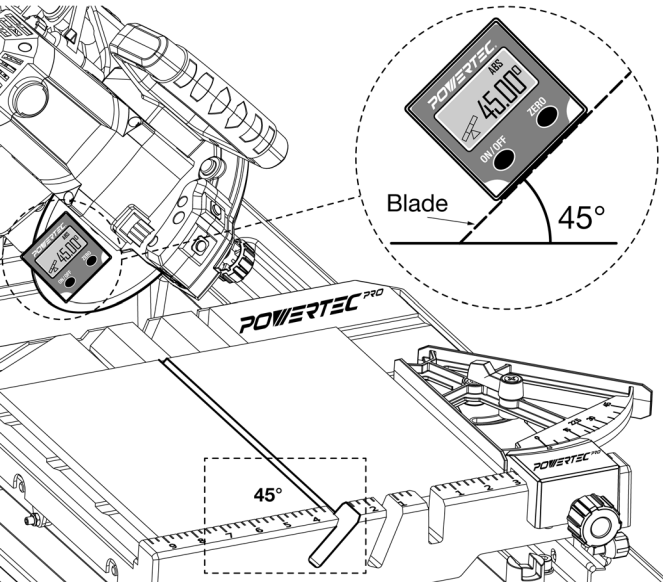
If the blade is not exactly vertical (0°):

- Loosen the miter/bevel locking lever located at the rear of the Cutting Head.
- Place a carpenter's square next to the blade and resting on the table.
- Loosen the locking nut and with a hexagonal key, rotate the 0° adjustment screw until the blade is square with the table and the adjustment screw rests on the tile saw arm.
- Tighten the screw and locking nut firmly and tighten the miter/bevel locking lever and verify adjustment.

If the blade is not exactly at 45°: See Figure 29

- Loosen the miter/bevel locking lever located at the rear of the Cutting Head and tilt the Cutting Head to the 45° mark.
- Place a Digital Angle Gauge such as **POWERTEC 71828 (sold separately)** or a 45° square against the blade and adjust the head to 45°.
- Loosen the locking nut and with a hexagonal key, rotate the 45° adjustment screw until the blade is at 45° from the table and the adjustment screw rests on the tile saw arm.
- Tighten the screw and locking nut firmly and tighten the miter/bevel locking lever and verify adjustment.

Figure 29



NOTE: Contact Customer Service to receive technical support, or if you do not have the tools necessary for making the adjustment.

Brushes:

- Inspect the carbon brushes regularly.
- With the tile saw unplugged, remove the motor end cap by removing the 4 Phillips head screws, remove the brush covers located on the sides of the motor by turning counter-clockwise with a regular screw driver and remove the brushes to check their condition.
- Keep the brushes clean and sliding freely in their housing.
- When the brushes reach the end of their useful life, always replace them with original spare brushes.
- Replace acceptably inspected or new brushes in reverse order and replace brush covers by tightening clockwise with a regular screwdriver, replace motor end cap.



⚠ WARNING

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause tile saw damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.

⚠ WARNING

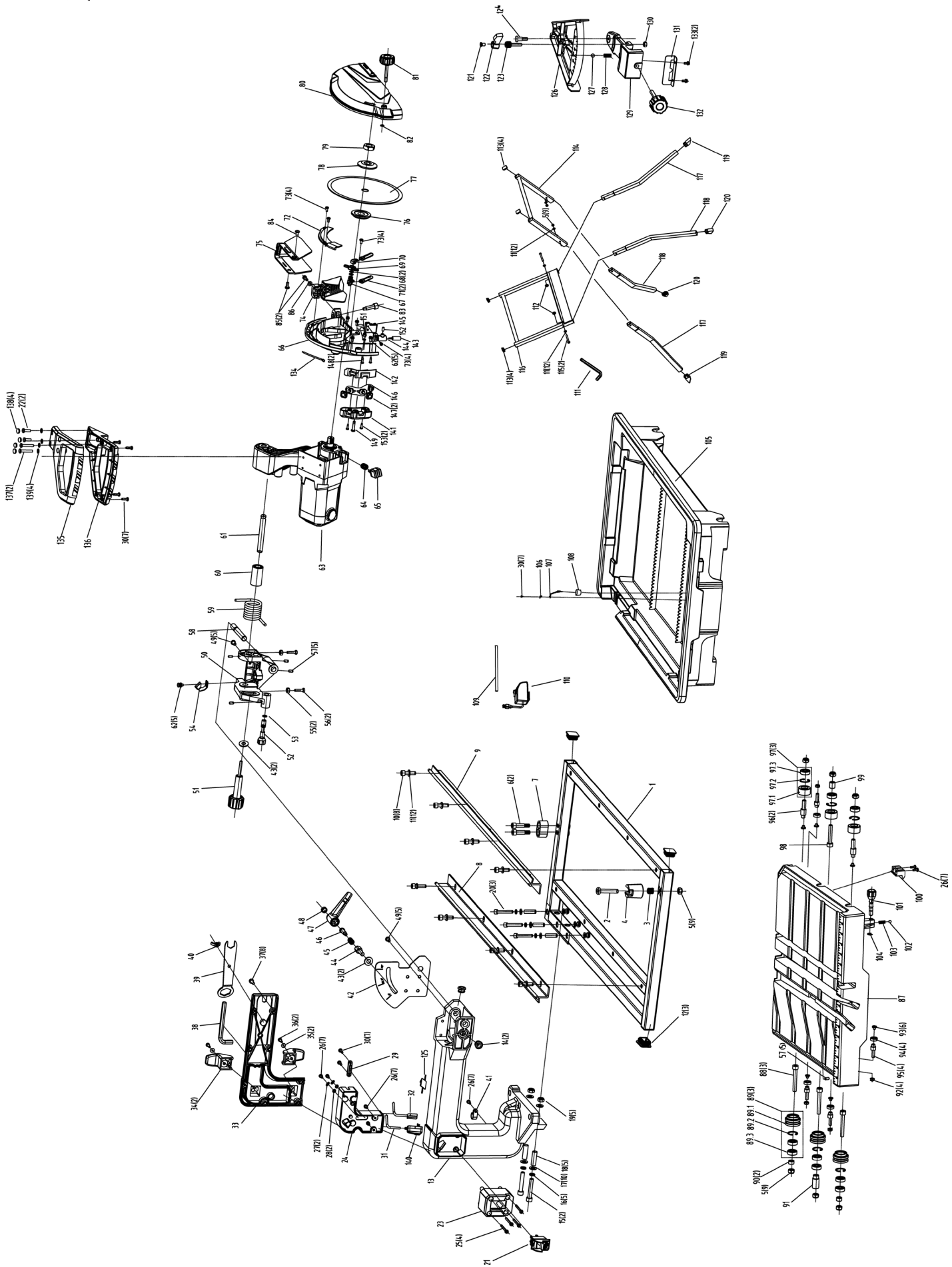
Keep the 7" Tile Saw dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum based products or any strong solvent to clean the 7" Tile Saw. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

TROUBLESHOOTING



Follow all safety precautions when servicing unit

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Tile saw will not start	1. Tile saw not plugged in	Plug in tile saw
	2. GFCI tripped	Switch to OFF and push reset button on GFCI
	3. Tile saw will not run (plugged in; switch on)	Switch to OFF and push the reset button on the GFCI
	4. Fuse blown or circuit breaker tripped	Switch to OFF and replace fuse or reset circuit breaker
	5. Cord damaged	Have cord replaced by authorized service center
	6. Brushes worn out	Replace brushes
Tile saw making poor cuts	1. Dull blade	Replace blade
	2. Water pump will not pump water	Remove water pump and spray with clean water to dislodge the impeller
	3. Blade mounted backwards	Turn blade around
	4. Build up on blade	Use dressing stone to remove build up
	5. Incorrect blade for work being done	Change the blade
Blade not coming up to speed	1. Insufficient gauge on extension cord or too long of an extension cord	Replace with adequate extension cord
	2. Arbor is loose	Tighten arbor
	3. Low voltage current in workshop	Contact a certified electrician
Excessive vibration	1. Tile saw not securely mounted to stand	Reposition water tank onto stand
	2. Stand seems uneven or shaky	Reposition onto a flat, level surface
	3. Damaged tile saw blade	Replace blade
Inaccurate cuts	1. Edge guide not secure to fence	Check and make adjustments
	2. Blade not square to fence	Make adjustments to square table path
	3. Blade not perpendicular to cart surface	Check and adjust Miter/Bevel stop
	4. Workpiece moving, slipping	Use and secure Angle Guide
	5. Table assembly has excessive play	Make adjustments to table wheels



TILE SAW PARTS LIST



Key No.	Part No.	Description	Specification	Qty
1	TLS1003001	Frame Assembly	25x25	1
2	TLS1003002	Socket Head Cap Screw	M8x45	1
3	TLS1003003	Compression Spring A	Φ13xL13	1
4	TLS1003004	Toggle Table Stop	Φ8xH37	1
5	TLS1003005	Nut	M8	9
6	TLS1003006	Hex Socket head Bolt	8x38	2
7	TLS1003007	Limit Block (Front)		1
8	TLS1003008	Rail (Left)	764mm	1
9	TLS1003009	Rail (Right)	764mm	1
10	TLS1003010	Hex Socket head Bolt	8x30	8
11	TLS1003011	Flat Washer	Φ8xΦ16x1.5t	12
12	TLS1003012	Frame Cover	24.8x24.8	3
13	TLS1003013	Arm		1
14	TLS1003014	Cable Sleeve		2
15	TLS1003015	Hex Socket head Bolt	M10x65 Φ16	2
16	TLS1003016	Spring Washer	Φ10	5
17	TLS1003017	Washer	Φ10.5xΦ20x2t	10
18	TLS1003018	Screw Sleeve	Φ10xΦ13x41.5	5
19	TLS1003019	Lock Nut	M10	5
20	TLS1003020	Hex Socket head Bolt	M10x60	3
21	TLS1003021	Switch		1
22	TLS1003022	Pan Head Screw	5x25	6
23	TLS1003023	Switch Box		1
24	TLS1003024	Wiring Box		1
25	TLS1003025	Pan Head Screw	M4x50 Φ8.0	4
26	TLS1003026	Pan Head Screw	M4x10 Φ8.0	7
27	TLS1003027	Spring Washer	Φ4	2
28	TLS1003028	Serrated Lock Washer	Φ4	1
29	TLS1003029	Wire Clamp Plate		1
30	TLS1003030	Taper Screw	ST4.2x13	7
31	TLS1003031	Wire		1
32	TLS1003032	Water Pump Socket Assembly		1
33	TLS1003033	Arm Cover		1
34	TLS1003034	Cord wrap hook		2
35	TLS1003035	Flat Washer	Φ4	2
36	TLS1003036	Taper Screw	ST4.2x16()	2
37	TLS1003037	Pan Head Screw	M5x16 Φ8.5	8
38	TLS1003038	Hex Wrench	8mm	1
39	TLS1003039	Wrench		1
40	TLS1003040	Lock Nut	M6	1
41	TLS1003041	Line Card		1
42	TLS1003042	Angle Plate		1
43	TLS1003043	Flat Washer	Φ8.2xΦ22x3t	2
44	TLS1003044	Bevel Lock Bolt	M8	1
45	TLS1003045	Compression Spring	Φ11x0.8x17	1
46	TLS1003046	Collar screw	M6 Φ8x18.5	1
47	TLS1003047	Bevel Lock Lever		1
48	TLS1003048	Bevel Lock Lever Cover		1
49	TLS1003049	Cap Screw	6x12	5

Key No.	Part No.	Description	Specification	Qty
50	TLS1003050	Bevel Angle Bracket		1
51	TLS1003051	Depth Lock Knob	M8	1
52	TLS1003052	Position Pin knob	/	1
53	TLS1003053	O-ring	Φ6.7x1.8	1
54	TLS1003054	Pointer		1
55	TLS1003055	Hex Nut	M5	2
56	TLS1003056	Hex Head Cap Screw	M5x20	2
57	TLS1003057	Set Screw	5x8	5
58	TLS1003058	Shaft	Φ12x86	1
59	TLS1003059	Torsional Spring	Φ39.5xΦ5x7	1
60	TLS1003060	Torsional Spring Sleeve	Φ25xΦ12.5x45	1
61	TLS1003061	Shaft	Φ12x92	1
62	TLS1003062	Pan Head Screw Set	M5x14	5
63	TLS1003063	Motor Assembly		1
64	TLS1003064	Spring	Φ12x15L	1
65	TLS1003065	Shaft Lock		1
66	TLS1003066	Inner Blade Guard		1
67	TLS1003067	Water Nozzle Joint Angle Mandrel		1
68	TLS1003068	O-ring	Φ9.5xΦ1	2
69	TLS1003069	Water Nozzle Connector		1
70	TLS1003070	Outlet Fitting		1
71	TLS1003071	Water Nozzle		2
72	TLS1003072	Water Hose Baffle		1
73	TLS1003073	Pan Head Screw	M4x8 Φ8.0	4
74	TLS1003074	Rear Splash Guard		1
75	TLS1003075	Side Splash Guard	/	1
76	TLS1003076	Inner Flange	Φ46xΦ15.9	1
77	TLS1003077	Blade	7in	1
78	TLS1003078	Outer Flange	Φ46	1
79	TLS1003079	Hex Nut		1
80	TLS1003080	Outer Blade Guard	/	1
81	TLS1003081	Blade Guard Lock Knob	M6	1
82	TLS1003082	Retaining Ring	Φ4	1
83	TLS1003083	Screw	M6 Φ8x21	1
84	TLS1003084	Pan head self tapping screw with pad	ST4.2x13Φ12Φ	1
85	TLS1003085	Pan Head Screw	M5*10 (Φ9)	2
86	TLS1003086	Flat Washer	Φ5xΦ12x1t	1
87	TLS1003087	Sliding Table	/	1
88	TLS1003088	Bearing Screw C	M8x52	3
89	TLS1003089	Wheel A Assembly		3
90	TLS1003090	Bearing Sleeve A	Φ8x12x7.5	2
91	TLS1003091	Eccentric Sleeve	Φ8xΦ15xL30	1
92	TLS1003092	Lock nut	M6(GB6170)	4
93	TLS1003093	Bearing Screw	M5x5	6
94	TLS1003094	Ball Bearing		4
95	TLS1003095	Eccentric Screw	M6x30	4
96	TLS1003096	Eccentric Screw B	M8x42	2



TILE SAW PARTS LIST

Key No.	Part No.	Description	Specification	Qty
97	TLS1003097	Wheel B Assembly		3
98	TLS1003098	Hex Socket head Bolt	M8×42×Φ8	1
99	TLS1003099	Bearing Sleeve B	Φ8×Φ12×10	1
100	TLS1003100	Work Table Limit Block		1
101	TLS1003101	Work Table Position Pin	/	1
102	TLS1003102	Steel Ball	Φ6	1
103	TLS1003103	Compression Spring	Φ6×Φ0.7×L15.5	1
104	TLS1003104	Retaining Ring	Φ6	1
105	TLS1003105	Water Tank	/	1
106	TLS1003106	Chain link connector	φ4.5	1
107	TLS1003107	Chain Assembly		1
108	TLS1003108	Drain Plug		1
109	TLS1003109	Water Pipe	Φ7mm×Φ10mm	1.8
110	TLS1003110	Water Pump		1
111	TLS1003111	Hex Wrench	5mm	1
112	TLS1003112	Spacer	8×20×5mm	2
113	TLS1003113	End Cover		4
114	TLS1003114	Support Bracket (Left)	30×20	1
115	TLS1003115	Button head socket screw	8x60	2
116	TLS1003116	Support Bracket (Right)	30×20	1
117	TLS1003117	Stand A	/	2
118	TLS1003118	Stand B	/	2
119	TLS1003119	Foot (Left)		2
120	TLS1003120	Foot (Right)		2
121	TLS1003121	Countersunk Head Screw	6×10	1
122	TLS1003122	Miter Lock Lever		1
123	TLS1003123	Lock Screw	M6×28	1
124	TLS1003124	Miter Screw	M6×23	1
125	TLS1003125	Switch		1
126	TLS1003126	Miter Gauge		1
127	TLS1003127	Steel Ball	Φ8	1
128	TLS1003128	Compression Spring C	Φ8×L16	1
129	TLS1003129	Miter Base	/	1
130	TLS1003130	Hex Nut	M6	1
131	TLS1003131	Miter Base Plate		1
132	TLS1003132	Miter Lock Knob		1
133	TLS1003133	Pan Head Screw	M4×8	2
134	TLS1003134	Wire		1
135	TLS1003135	Upper Handle		1
136	TLS1003136	Lower Handle		1
137	TLS1003137	Pan Head Screw	5×40	2
138	TLS1003138	Plug		4
139	TLS1003139	Flat Washer	Φ5	4
140	TLS1003140	GFCI Plug		1
141	TLS1003141	Laser switch upper cover		1
142	TLS1003142	Laser switch lower cover		1
143	TLS1003143	Laser Light		1

Key No.	Part No.	Description	Specification	Qty
144	TLS1003144	Laser Light holder		1
145	TLS1003145	Laser Fitting		1
146	TLS1003146	LED Assembly		1
147	TLS1003147	Switch Cover		2
148	TLS1003148	Taper Screw	ST3.5×13	2
149	TLS1003149	Pan Head Screw	5×20	1
150	TLS1003150	Spring Washer	Φ5	1
151	TLS1003151	Lock Nut	M5	1
152	TLS1003152	Set Screw	4×8	1
153	TLS1003153	Taper Screw	ST3.5×8	2



Thank you for investing in a **POWERTEC Pro™** power tool. This product has been designed and manufactured to meet high quality standards and is guaranteed for domestic use against defects in workmanship or material for a period of 12 months from the date of purchase. This guarantee does not affect your statutory rights.

SOUTHERN TECHNOLOGIES LLC. BENCH TOP AND STATIONARY POWER TOOL LIMITED 1 YEAR WARRANTY AND 30-DAY SATISFACTION GUARANTEE POLICY

POWERTEC Pro products are designed and manufactured by **Southern Technologies LLC**. All warranty communications should be directed to **Southern Technologies LLC** by calling 847-780-6120 (toll free), 9 AM to 5 PM, Monday through Friday, US Pacific Time.

30-DAY SATISFACTION GUARANTEE POLICY

During the first 30 days after the date of purchase, if you are dissatisfied with the performance of this **POWERTEC Pro** tool for any reason, you may return the tool to the retailer from which it was purchased for a full refund or exchange. 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 one year warranty period.

LIMITED ONE YEAR WARRANTY

This warranty covers all defects in workmanship or materials in this **POWERTEC Pro** tool for a one year period from the date of purchase. This warranty is specific to this tool. **Southern Technologies, LLC** reserves the right to repair or replace the defective tool, at its discretion.

HOW TO OBTAIN SERVICE

To obtain service for this **POWERTEC Pro** tool you must return it, freight prepaid, to **POWERTEC Pro**. You may call (toll free) 847-780-6120 for more information. When requesting warranty service, you must present the proof of purchase documentation, which includes a date of purchase. **POWERTEC Pro** will either repair or replace any defective part, at our option at no charge to you. The repaired or replacement unit will be covered by the same limited warranty for the balance of one year warranty period.

WHAT IS NOT COVERED

This warranty applies to the original purchaser at retailer and may not be transferred.

This warranty does not cover consumable items such as saw blades, knives, belts, discs, cooling blocks and sleeves. This warranty does not cover required service and part replacement resulting from normal wear and tear, including accessory wear.

This warranty does not cover any malfunction, failure or defect resulting from:

- 1) misuse, abuse, neglect and mishandling not in accordance with the owner's manual.
- 2) damage due to accidents, natural disasters, power outage, or power overload.
- 3) commercial or rental use.
- 4) alteration, modification or repair performed by persons not recommended by **POWERTEC Pro**.

DISCLAIMER

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