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i. GENERAL SAFETY RULES FOR ALL POWER TOOLS

WARNING! Read all instructions. As with all machinery there are certain hazards involved with operation and use of the machine. The following basic safety precautions should be followed at all times to reduce the risk of fire, electric shock and serious personal injury to you or others. Keep these important operating instructions with this product.



- 1. Know your power tool read owner's/operator's manual carefully. Learn its applications and limitations as well as the specific potential hazards unique to this tool.
- 2. Keep guards in place and in working order.
- 3. Ground all tools if tools are equipped with three prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.



4. Remove wrenches - Form a habit of checking to see that adjusting wrenches are removed from tool before turning it "on".



- 5. Keep work area clean. Cluttered areas and benches invite accidents.
- 6. Do not use in dangerous environment. Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted. Do not use tool in the presence of flammable liquids or gasses.
- 7. Keep children and visitors away. All children and visitors should be kept at a safe distance from work area.
- 8. Make workshop childproof with padlocks, master switches or by removing starter keys.
- 9. Do not force tool. It will do the job better and be safer at the rate for which it was designed.
- 10. Use right tool. Do not force tool or attachment to do a job for which it was not designed.
- 11. Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry that may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. Always use safety glasses. Wear safety glasses (must comply with ANSI Z87.1) at all times. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Use face or dust mask if cutting operation is dusty, and ear protectors (plugs or muffs) during extended periods of operation.
- 13. Do not overreach. Keep proper footing and balance at all times.
- 14. Maintain tools in top condition. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility.
- 15. Disconnect tools. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
- 16. Avoid accidental starting. Make sure switch is in "off" position before plugging in power cord.
- 17. Use recommended accessories only. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.



18. Never stand on tool. Serious **injury** could occur if the tool is tipped or if the cutting tool is accidentally contacted.



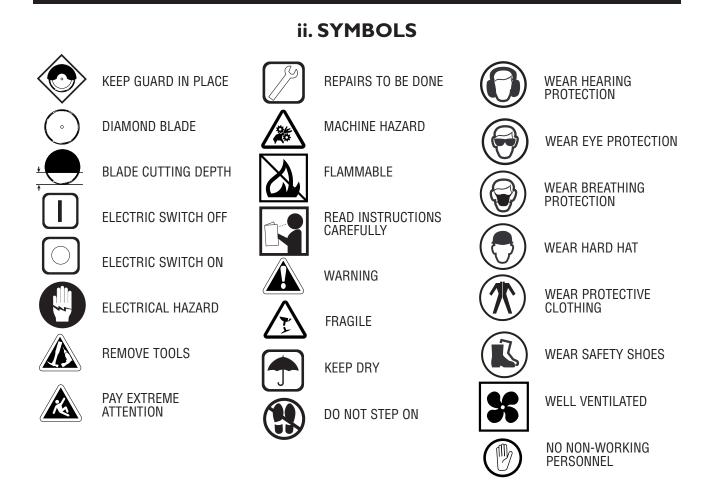
- 19. Check Damaged Parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform it's intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect it's operation. A guard or part that is damaged should be properly repaired or replaced.
- 20. Never leave tool running unattended. Turn power "off". Do not leave tool until it comes to a complete stop.

- 21. Extension cords. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one 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. Extension cord tables (*refer to page 21*) show the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage numbers the heavier the cord.
- 22. Do not abuse cord. Never carry tool by cord or pull it to disconnect from receptacle, Keep cord from heat, oil, and sharp edges.
- 23. Guard against electric shock. Prevent body contact with grounded surfaces. For example, pipes, radiators, ranges and refrigerator enclosures.
- 24. Outdoor use extension cords. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.

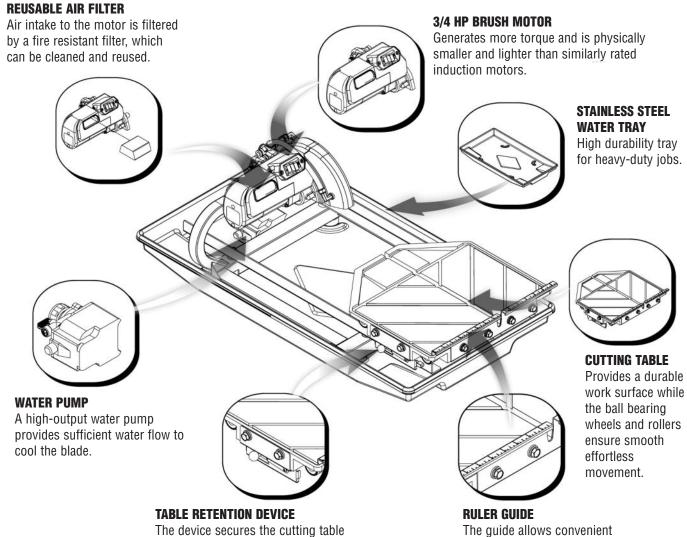


- 26. Drugs, alcohol, medication. Do not operate tool while under the influence of drugs, alcohol or any medication.
- 27. Store idle tool. When not in use, tool should be stored in a dry and locked place, out of reach of children.

WARNING! <u>CALIFORNIA PROPOSITION 65:</u> Sawing and drilling generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment always employ dust controls and protection suitable to the material being saw or drilled in accordance with OSHA (29 CFR Part 1910.1). Diamond blades improperly used are dangerous. Comply with ANSI Safety Code B7.1 and OSHA covering speed, safety guards, flanges, mounting procedures, general operating rules, handling, storage and general machine condition.



iii. FEATURES



when transporting the saw.

KULER GUIDE The guide allows convenient measurements and promotes precision cuts.

iv. SPECIFICATIONS

	PA-7R TILE SAW							
MOTOR	MOTOR MAX. BLADE CAPACITY		CUTTING DEPTH	WEIGHT	DIMENSIONS			
3/4 HP 115 v, 60 Hz, 6,000 rpm	7" Blade 5/8" arbor blade	20" rip cut, 14" diagonal cut	1-1/4"	40 lbs.	33.1" L x 18.7" W x 12.7" H			

v. UNPACKING

Open the container and carefully lift the saw by the foam packaging and place it on a flat, level working area. Be sure that you have the following items before you discard the container:

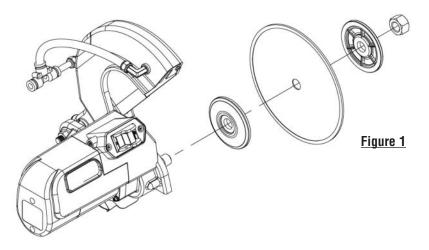
- Saw
- Stainless steel water tray
- 7" saw blade
- 45°/90° rip guide
- Universal wrench
- Water pump
- Owner's manual

vi. INSTALLATION AND OPERATION

BLADE INSTALLATION

- 1. Loosen blade guard adjustment knob located at the rear of the blade guard. Raise the blade guard to the highest position and retighten the knob.
- 2. Remove the blade shaft nut and outer flange. *See Figure 1.* If a blade has been mounted, hold the blade with one hand and use the other hand to loosen the nut with the universal wrench. Remove existing blade.
- 3. Mount new blade, but make certain the arrow on the blade coincides with the rotation direction of the shaft.
- 4. Attach outer flange and blade shaft nut. Hold the blade with one hand and use the other hand to tighten the nut with the universal wrench. Make certain the flanges are pressed flush against the blade and that the nut is firmly tightened, but do not over tighten.
- 5. Loosen blade guard adjustment knob, lower the blade guard and retighten the knob.

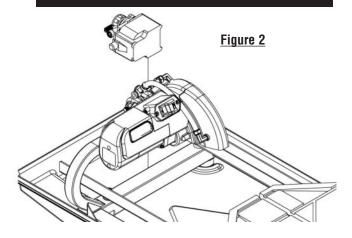
WARNING: Only use 7" blades on this saw. Setting a smaller blade may cause the blade to grab the material being cut, possibly causing injury to the operator and the saw.



WATER PUMP INSTALLATION

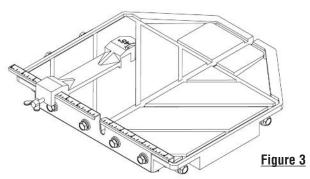
- 1. Remove the water pump from the box and check that it is not damaged.
- 2. Place the pump within the water tray such that the water outlet is horizontal. *See Figure 2.*
- Connect the water hose from the blade guard to the pump and plug the pump's power cord into the female plug that is attached to the post.
- 4. Fill the water tray so that the water intake is fully immersed. Proper water level must be maintained at all times during saw operation.

WARNING: Disconnect the pump before attempting to handle the pump. Never operate pump without water in the tray.



USING THE CUTTING TABLE

- 1. The ruler guide has inches marked along the top to allow convenient measurements and to promote precision cuts. *See Figure 3.*
- 2. The cast aluminum cutting table spans an area of 14-1/2" x 14", which allows it to provide greater support for handling larger materials.
- 3. A rip guide should be used together with the cutting table to ensure precision while making cuts.



USING THE RIP GUIDE

- Set the rip guide at the desired location on the ruler guide and tighten the threaded knob. Make sure that the rip guide is firmly tightened to avoid slippage. The rip guide can be used for 45° and 90° cuts from both the left and right side.
- 2. After the rip guide is positioned for the desired cut, place material flat against the rip guide and the ruler guide.
- 3. Now you are ready to make your cut.

PERFORMING DIAGONAL CUTS

- 1. Remove threaded knob from the end of the rip guide with the horizontal groove and insert it into the other end with the diagonal grooves.
- 2. Position the rip guide along either of the diagonal premarked lines that intersect the ruler guide and the vertical channel of the cutting table. Tighten threaded knob once in place.
- 3. Place one corner of the material being cut in the vertical slot of the ruler guide and rest the adjoining edge flat against the rip guide.
- 4. Now you are ready to make your cut.

PERFORMING MITER CUTS

To make miter cuts, an optional miter block must be purchased.

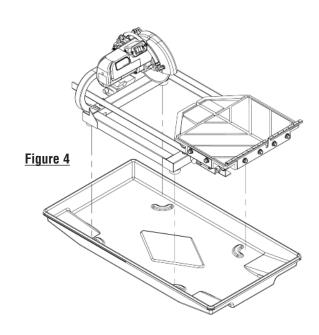
- 1. Place the lip of the miter block on the ruler guide with the threaded knob facing you.
- 2. Position the miter block such that a tile laying flat against the block may rest its left-most edge within the vertical channel of the cutting table. Tighten the threaded knob to secure the miter block in place.
- 3. Place material onto miter block and you are ready to cut.

CLEANING THE WATER TRAY

- 1. Lift the saw up from inside the water tray.
- 2. Flush water into the tray while holding it upright to remove any sludge buildup.
- 3. Replace the saw back into the tray. See Figure 4.

TRANSPORTING THE SAW

- 1. Ensure that the water tray is empty and dry.
- 2. Unplug the power cord and store it in the water tray.
- 3. Secure the cutting table to the front of the saw using the table retention device.



vii. PROPER BLADE USE

WET CUT BLADES

<u>D0'S</u>

- Inspect blades daily for cracks or uneven wear.
- Always use appropriate blade for material being cut.
- Inspect arbor shaft for uneven wear before mounting blade.
- Always use blades with the correct arbor shaft size.
- Ensure that blade is mounted in the correct direction.
- Use proper safety equipment when operating the saw.
- Always have a continuous flow of water on both sides of blade.
- Secure the blade to the arbor with a wrench.

<u>DONT'S</u>

- Do not operate the saw without safety guards in position.
- Do not operate the saw with blades larger or smaller than 7".
- Do not cut dry with blades marked "Use Wet".
- Do not exceed manufacturer's recommended maximum RPM.
- Do not force blade into material. Let blade cut at its own speed.

DRY CUT BLADES

<u>DO'S</u>

- In addition to the following, always follow wet recommendations.
- Use appropriate blade for material being cut.
- Inspect segment blades for segment cracking or loss.
- Do not use damaged blades.
- Use proper safety equipment when operating the saw.

<u>Dont's</u>

- In addition to the following, always follow wet recommendations.
- Do not make long cuts with dry blades. Allow them to air cool.
- Do not use the edge or side of blade to cut or grind.
- Do not attempt to cut a radius or curve.
- Do not cut too deep or too fast into the material.
- Do not cut any material not recommended by blade manufacturer.

viii. SAFE OPERATING PRACTICES FOR TILE SAW

WARNING! For your own safety and the safety of others do not attempt to operate this saw until you have read and understand the general safety rules for all power tools and the following additional safety precaution unique to this saw.

1. Use safety equipment - wear safety approved hearing, eye, head and respirator protection.

WARNING! The dust generated by cutting of tile, marble, stone, bricks etc. can be injurious to your health. Always operate machinery in well ventilated areas and provide proper dust removal. Always wear a dust mask approved for respiratory protection against these types of dusts and mists.



2. Read and understand the symbol definitions contained in this manual.

- 3. Read and understand all warnings and instructions on the machine.
- 4. Read all safety materials and instructions that accompany any blade or accessory used with this machine.
- 5. Establish a training program for all operations of this machine.
- 6. Always provide a copy of this manual to the equipment user. If you need extra copies call our Customer Service Department at **1-800-969-5561.**
- 7. Always select a diamond blade according to the manufacturers recommendation suitable for the material to be cut. Never use a blade having a maximum operating speed lower than the "No load R.P.M." marked on the tool nameplate. Do not operate any saw without safety guards in place or with a blade diameter larger than the maximum saw blade capacity.
- Before mounting a blade on the saw clean and inspect the arbor shaft, blade flanges and the diamond blade for uneven wear or damage. If it appears to be damaged, *Do not operate the <u>tool.</u>* Have it serviced by a qualified service technician.



 Before each use of the saw, inspect the diamond blade for hairline fatigue cracks. If such a crack or flaw is evident, discard the blade. <u>Using a damaged blade may cause</u> <u>injury to the operator or others.</u> Be sure that the blade arbor hole matches the blade adapter flange supplied with the saw. Use only blade adapter flanges that came on your saw. Never use damaged or worn blade adapter flanges.



11. *Installing the blade,* install the blade with the arrow pointing the same direction as the rotation of the arbor shaft or the arrow on the blade guard. Be sure to tighten the blade shaft arbor nut with the wrench provided. *Be careful not to over tighten.*

WARNING! Not dressing the blade frequently or setting the blade too high will cause it to grab the tile possibly causing injury to the operator and the saw. Setting the blade depth too low will cause it to cut into the main table that may result in injury.

- 12. Check that the blade tracks near the center of the channel in the main table, and that the table moves freely from front to back.
- 13. Sometimes the material being cut is not abrasive enough to expose new diamonds on the blade. If the blade is not sharpened, it will rub against the surface resulting in heat build up in the core. To prevent this, it is necessary to dress the blade. To dress the blade simply cut something that is very abrasive such as a piece of cement block. Indications that the blade needs dressing includes:
 - The diamond in the matrix appear shiny because they are worn flat.
 - The blade stops cutting or noticeably slows down.

Blade dressing stones are available from your local Pearl Warehouse.

- 14. Before using the saw fill the water tub enough to submerge the water pump with clean water only. Replenish as necessary and clean the water tub frequently. Do not operate a wet cutting blade without adequate water flow to both sides of the blade. Never run the pump dry.
- 15. When cutting, always hold the material firmly lying flat, supported by the main table with one edge resting against the main table backstop.

















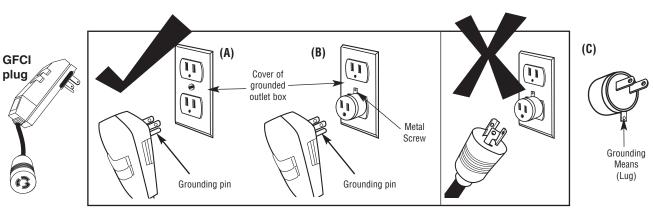
• Do not attempt to cut pieces too small to safely hold down on the main table.

• Never use the side of the blade to cut or grind with, only cut in a straight line.

- Keep all parts of your body away from the blade and all other moving parts.
- Never touch or try to stop a moving blade with your hand.
- When cutting dry always unplug the water pump first. *Never run the pump dry.*
 - Do not use a wet cutting blade for dry cutting. Select the proper dry cutting blade for your application.
 - Never make long continuous cuts with dry cutting blades. To avoid heat build up, allow the blade to cool, remove the tile and allow the blade to run freely for a few minutes.

IMPORTANT - If there is any tendency for the saw to tip or move during certain operations, such as when cutting large heavy tile; the saw must be securely fastened to a supporting table.

- 17. Make certain all adjusting knobs or locks are tight and engaged in their detents and that movable parts not intended to move during operation are securely locked before making a cut. **Be careful not to over tighten.**
- Before connecting the machine to a power source check to see that the "On/Off" switch is in the "off" position.
 - Make sure the blade is not contacting anything before connecting to a power source and starting the motor.
 - Know how to stop the machine quickly in case of an emergency.



ix. GROUNDING INSTRUCTIONS



1. Always use the included GFCI plug.

- 2. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current, reducing the risk of electric shock. This tool is equipped with an electric cord which has 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 it is intended to be used with the included GFCI plug and extension cord. If using an adaptor for a 2-prong outlet, always attach the adaptor to the GFCI plug, never to the power cord.

- 4. Improper connection of the equipment-grounding conductor can result in a risk of electric shock.
- 5. Check with a qualified electrician or service person if you do not completely understand the grounding instructions or are unsure that the tool is properly grounded.
- 6. If an additional extension cord is needed, attach it to the 3-prong GFCI plug. Never use an extension cord longer than 50 feet.

<u>Always repair or replace a damaged or worn cord</u> <u>immediately.</u>

7. This saw is intended for use on a circuit that has an outlet that looks like the one illustrated in *Figure 5*. The GFCI plug used on the saw has a grounding

plug that looks like the plug illustrated in *Figure 5(A)*. A temporary adaptor, which looks like the adaptor illustrated in *Figures 5(B)* and *5(C)*, may be used to connect the GFCI plug to a 2-pole receptacle, as shown in *Figure 5(B)*, if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, etc., extending from the adaptor must be connected to a permanent ground, such as a properly grounded outlet box.

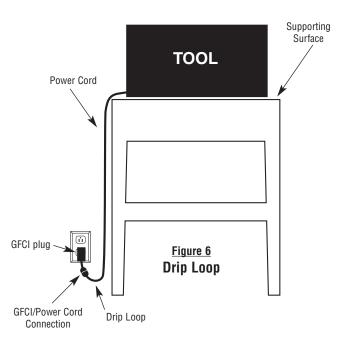
NOTE - Use of a Temporary Adapter is not permitted in Canada.

- 8. Position of the Tile Saw.
 - To avoid the possibility of the appliance plug or receptacle getting wet, position the tile saw to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a "drip loop" in the cord connecting the saw to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector (if an extension cord is used); it prevents water from traveling along the cord and coming into contact with the receptacle. *See Figure 6.*
 - If the plug or receptacle does get wet, do not unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the receptacle. Then unplug and examine for the presence of water in the receptacle.
 - If the receptacle is wet, dry it and make certain that the GFCI Plug is reset before plugging it back into the receptacle. Do not reconnect the fuse or circuit breaker until the receptacle is dry.
- 9. Extension Cords



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

- Always use the extension cord included with the saw.
- If an additional extension cord is needed, use only a cord that is intended for outdoor use. These extension cords are identified by the marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords with an electrical rating higher than the rating of the tool. Refer to the chart on page 14. Do not use damaged extension cords. Examine an extension cord before use and replace it if it is damaged. Do not abuse extension cords and do not pull on any cord to disconnect it. Keep the cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the saw from the extension cord.
- Never use an additional extension cord that is longer than 50 feet.
- 10. Always use the Ground Fault Circuit Interrupter (GFCI) plug included with the saw.
- 11. The tile saw cord includes a 15-amp twist lock plug. Do not modify this plug or use an adaptor on it. This plug is intended to be used with the GFCI Plug included with the saw. The GFCI has a standard 3-prong plug that can be plugged into a standard 3-prong outlet or extension cord.



x. CARE AND MAINTENANCE

/ WARNING! For your safety before performing any maintenance on the saw turn off the power switch and unplug the power cord.

GENERAL RULES

- Always clean the machine before performing any maintenance/ repair.
- Before performing any cleaning/maintenance /repair, the machine must be switched off with the main power switch.

Steps to Follow When Cleaning:

- Please do not use aggressive cleaners (i.e. containing solvents). Do not use high-pressure water jets, aggressive detergents or solutions and liquids with a temperature exceeding 86°F! Use a fluff-free cloth only.
- Use a cloth which may be lightly moistened only for removing dust and dirt. Hard packed dirt can be removed with a soft brush.
- For the sake of safety, no water/cleaning liquid/vapor may penetrate into the electric motor, connectors/plugs, switches, etc. Therefore cover all apertures, holes in the housing, connectors or plugs, etc. or seal them with adhesive tape!
- Use a soft, low-pressure water jet and a brush to rinse dirt and incrustations away. Be particularly careful when near hazardous parts of the machine (e.g. switch, motor). Clean the motor and switches only by wiping with a moist cloth.
- Do not "rinse" the bearings of the drive elements to prevent them from running dry. The ball bearings of the machine are permanently lubricated.
- After cleaning, remove all covers and adhesive tape! All screws/nuts which you may have loosened must be tightened again!
- After wet cleaning, try the machine on a power outlet which is equipped with a power breaker (i.e. fault current circuit breaker). If the fault current circuit breaker cuts the power supply, the machine must be inspected by an authorized dealer prior to use!

CLEANING

After every use of the machine:

- Remove dirty water from container.
- Remove dirt and mud from the bottom of the container.
- Rinse the immersion pump with fresh water to

prevent the water pump from clogging with residual dirt.

After wet cleaning and before using the machine again:

• Connect the machine to an electric power outlet equipped with a "GFCI" safety power breaker. If the safety power breaker cuts off the electrical power supply, do not try to operate the machine but have it checked by an authorized dealer first.

PROLONGED PERIOD OF NON-USE

Before not using the machine for a prolonged period of time:

• Clean and lubricate all movable parts. However, do not grease the guide rails.

After not using the machine for a prolonged period of time:

- Check that the stand is safely fixed.
- Check that all screw joints and nuts are fixed.
- Check that the cutting table is seated properly on the guide rails and that it moves easily along the entire length of the rails.
- With the saw blade removed, switch on the motor for an instant and switch it off again. If the motor does not run, have the machine inspected by a qualified electrician.
- Check that the immersion pump works properly. Turn on the cooling water tap and switch the machine on. If the pump does not give any water or only a little, switch the machine off at once. Clean the pump, or replace if necessary.

EXTREME TEMPERATURE

Ambient temperature below 32° F (Winter):

• To prevent the water in the pump and cooling system from freezing, remove the water after using the machine or when there will be a long break. Make sure that the cooling system is entirely drained so that there is no water left inside the pump and water hose!

WATER PUMP MAINTENANCE

When the machine has not been used for a long period of time, hard packed dirt may begin to build up inside the pump and block the pump wheel. If the machine is activated with the immersion pump blocked, the electric motor of the pump will be damaged within a few minutes! Please follow the steps listed below to clean the pump before operating the saw:

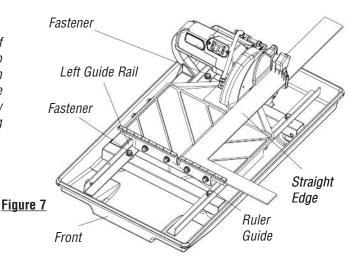
- 1. Remove the immersion pump from the water container.
- 2. Clean the immersion pump.
- 3. Loosen the fixing screws of the pump lid.
- 4. Take the lid off the pump. Be careful not to damage or lose the gasket underneath.
- 5. Clean the pump lid.
- 6. Remove all dirt and incrustations from the pump wheel.
- 7. Check whether the pump wheel can be easily turned.
- 8. Then reassemble the immersion pump correctly and check whether it works properly.

REALIGNMENT

Method 1:

This procedure deals with the most common source of misalignment that occurs when the guide rails are not parallel with the blade.

- 1. Place a straight edge on the cutting table as shown in *Figure 7.*
- Loosen the left guide rail by untightening the fasteners found at the ends of the rail. (see figure 7) Do not loosen the rail too much to avoid excessive play during adjustments.
- 3. Make sure the straight edge is placed flush against the ruler guide. Adjust the left guide rail so the front and rear edges of the blade touch the straight edge, although a tolerance of 0.1mm between the front and rear edges is allowed. Perform this adjustment along the entire length of the straight edge.
- 4. Position the table as close to the user as possible. Place the straight edge flush against the ruler guide and blade. While gently holding down the straight edge, move the table towards the rear of the saw and then back. Apply just enough force to prevent the straight edge from moving due to table vibrations, but not enough to prevent the blade from displacing the straight edge. Observe any gaps that may appear between the straight edge and blade or between the straight edge and ruler guide. A gap exceeding the allowed tolerance means that the table is



not moving parallel to the blade; hence, further adjustments as outlined in step 3 will be required. However if scenario A or B described below occurs, other adjustments may be required instead.

A. If the straight edge only touches the blade when the table is positioned midway along the rail or at the ends of the rail, then the left rail may be deformed (i.e. bowed). *See Figure 8.* Typically a bowing displacement of up to 0.2mm will not affect cutting accuracy. Perform test cuts to determine if the rail should be replaced. If a replacement is required try swapping the left rail with the right rail and perform the alignment procedure again. If this does not solve the problem, then replacement rails will have to be acquired.



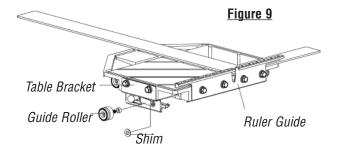
- B. If the straight edge touches both edges of the blade intially, but shifts apart as the table travels along the rail, proceed to method 2 below.
- 5. Tighten the fasteners at both ends of the left rail. If alignment has been achieved do not proceed to method 2.

Method 2:

This procedure corrects another source of misalignment that occurs when the table's orientation is not parallel with the guide rails.

- 1. Lower the table bracket by loosening the two affixed bolts. (see figure 9) Remove the table from the rails.
- 2. If the table shifts to the right as it travels away from the user, a shim needs to be added to the guide roller furthest

from the ruler guide. On the other hand, if the table shifts to the left, a shim needs to be added to the guide roller closest to the ruler guide. Remove the appropriate guide roller to insert a shim between the roller and table, then reattach. (see figure 9) Depending on the severity of the shift, more than one shim may be required.



- 3. After adding shim(s), mount the table onto the guide rails and realign the table to the blade using method 1. Check to see if any shifting persists. A shift tolerance of 0.2mm is allowed. A shift in excess of that will require further adjustment—repeat step 2.
- 4. Once alignment is successful, restore the table bracket to its original position and secure it in place by tightening the affixed bolts.

PA-7R TILE SAW

3/4 hp

115 V/ 60hz

7.5 amps

6,350 rpm

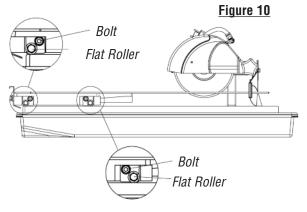
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1

LEVELING ADJUSTMENT

This procedure levels the table so that it is perpendicular to the blade and flush against the rails.

1. Loosen the bolt on the flat roller plate so that the roller can swing freely about the bolt. (see figure 10) Do this for both flat roller plates.



2. Hold the table against the rails. The flat rollers should reposition themselves to maintain contact with the rails. If the table is not perpendicular to the blade, lift the right side of the table instead to obtain the proper angle. A square tool will be required to confirm the angle. Tighten the bolts. Check the table for play. Repeat step 1 if some play is still present.

xi. ELETRICAL MOTOR SPECIFICATIONS

Recommendat	ions:
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- It is recommended that a **7.5 amp circuit** be used while operating this saw. This will prevent possible power interruption or loss.
- Always plug saw as close as possible to the power source while operating. This will allow you to receive optimum electricity.

WARNING: To avoid permanent motor damage you must use the correct extension cord. Never use more than one extension cord at a time. Follow the chart for proper size.

Electrical Wiring Diagram

WIRE GAUGE	LENGTH OF CORD
No. 12	25'
No. 10	50'
No. 8	75'

Horse Power

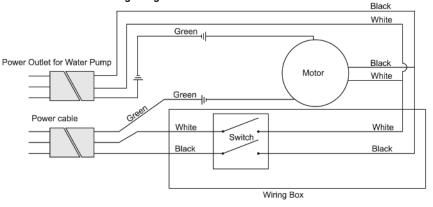
Motor RPM

Volts

Amps

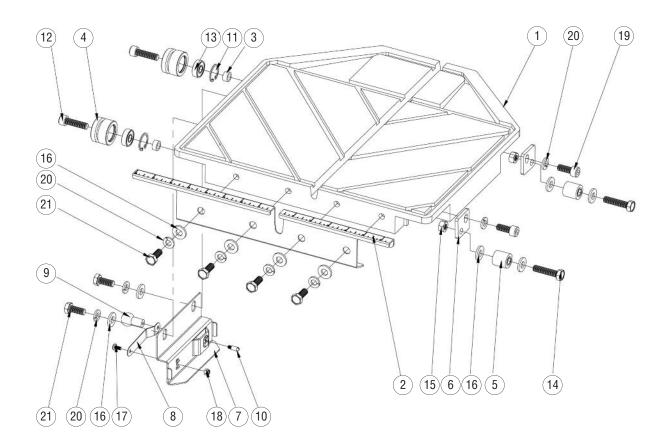
Cycle

Phase

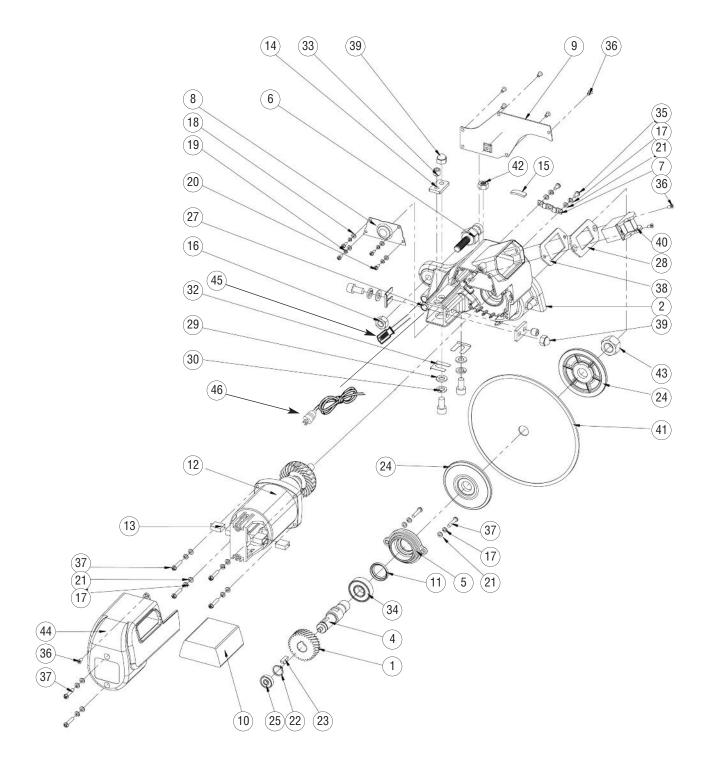


xii. REPLACEMENT PARTS LIST

PA-7R CUTTING TABLE ASSEMBLY



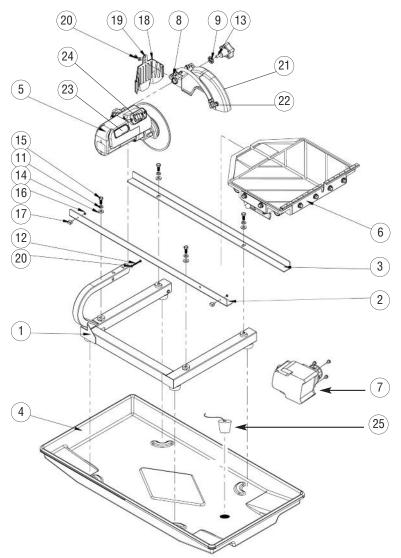
	PART NAME	PART NUMBER	PART NAME	PART NUMBER
1	TC02 cutting table	PA00001	12 M8 x 1.25 x 30L Socket head bolt	PA00012
2	Ruler guide	PA00002	13 608 LLU radial bearing	PA00013
3	D12.7 d8.5 x 6L spacer	PA00003	14 M8 x 1.25 x 35L Hex bolt	PA00014
4	Type 6 guide ruler	PA00004	15 M8 x 1.25 nut	PA00015
5	Teflan flat ruler	PA00005	16 M8 narrow washer	PA00016
6	Roller mounting plate	PA00006	17 M4 x 0.7 x 8L Cross screw	PA00017
7	Table lock bracket	PA00007	18 M4 x 0.7 Nylon nut	PA00018
8	Leaf spring	PA00008	19 M8 x 1.25 x 20L socket head hex bolt	PA00019
9	Ball handle	PA00009	20 M8 Spring washer	PA00020
10	Pin head	PA00010	21 M8 x 1.25 x 20L Hex bolt	PA00021
11	M22 Internal C-clip	PA00011	22 M8 x 1.25 x 25L Socket head hex bolt	PA00022



PA-7R MOTOR ASSEMBLY

	PART NAME	PART NUMBER
1	Blade shaft gear	PA00023
2	Cutting head housing	PA00024
3	Cutting head mounting tube	PA00025
4	Blade shaft	PA00026
5	Gear cover	PA00027
6	Blade guard mounting shaft	PA00028
7	Wire anchor plate	PA00029
8	Wire separation plate	PA00030
9	Wire access plate	PA00031
10	Particle filter	PA00032
11	D28 d20mm Oil seed	PA00033
12	Complete Motor	PA171012
13	14mm x 6mm Carbon brush	PA00035
14	Anchor plate	PA00036
15	Rubber Stop 22mm x 8mm x 2.5mm	PA00037
16	M10 x 1.5 Nut	PA00038
17	M4 Spring washer	PA00039
18	M3 Narrow washer	PA00040
19	M3 Spring washer	PA00041
20	M3 x 8L Cross tapping screw	PA00042
21	M4 Narrow washer	PA00043
22	M15 External C-clip	PA00044
23	5 x 16-Rad. Woodruff key	PA00045
24	Dia 5/8'' (15.9mm) Universal flange	PA00046
25	D19 d6 Radial bearing 626ZZ	PA00047
26	KEDU KJD17B Electromagnetic switch	PA00048
27	2 Cable D9 cable boot	PA00049
28	Power switch mounting plate	PA00050
29	M8 Narrow washer	PA00051
30	M8 Spring washer	PA00052
31	M8 x 1.25 x 15L socket head hex bolt	PA00053
32	M8 Rectangular shim	PA00054
33	M8 x 1.25 x 15L flat point set screw	PA00055
34	D35 d15 Radial bearing 6202 LLB	PA00056
35	M4 x 8L Cross tapping screw	PA00057
36	M4 x 5L Countersunk tapping cross screw	PA00058
37	M4 x 20L Cross tapping screw	PA00059
38	Gasket	PA00060
39	M4 x 1.25 Acorn nut.	PA00061
40	20A 125V/12A 250V Toggle switch	CX38085
	7" blade	
42	M8 x 1.25 Nut	PA00062
43	5/8'' - 11 UNC Nut	PA00063
44		PA00064
45	Water pump receptacle	PSV100R
46	Power cable	PSV10014R

PA-7R MAIN ASSEMBLY



	PART NAME	PART NUMBER
1	Frame weldment	PA00067
2	Left 755L - L-rail	PA00068
2 3 4	Right 755L - L-rail	PA00069
4	Steel water tray assembly	PA00070
5	1/2 HP Cutting head	PA00071
6	TC02 Cutting table	PA00072
7	Water pump	CX38011
8	Water flow T adapter	PSV00005
9	M10 Spring washer	PA00073
10	M4 Spring washer	PA00074
11	M8 Spring washer	PA00075
12	M4 x 0.735L Cross screw	PA00076
13	Male M8 x 1.25 x 20L knob	PA00077
14	M8 Narrow washer	PA00078
15	M8 x 1.25 x 20L Hex bolt	PA00079
16	M4 x 0.7 Nut	PA00080
17	Rubber stop	PA00081
18	Rubber splash guard	PSV100023
19	M6 Narrow washer	PA00082
20	M6 x 1.0 x 10L Hex bolt	PA00083
21	Blade guard	PA00084
22	Water flow L adapter	PSV00008
23	Air FIIter	PA00085
24	20A 125V 12/250V Toggle Switch	CX38085
25	Drain Plug	S1000-48

xiii. TROUBLESHOOTING

WARNING! For your safety and the safety of others, turn the power switch off and always remove the plug from power source before troubleshooting. Repairs performed by unauthorized personnel could cause serious hazard. We recommend that service to this tool be performed by a qualified service technician with original equipment replacement parts.

EXCESSIVE NOISE. Possible blade shaft bearing wear, motor belt loose or motor fan rubbing on housing. Have tool serviced.

BLADE WILL NOT CUT. Check for worn out diamond edge. Be sure that the arrow on the blade is rotating the same direction as the motor arbor and/or arrow on the blade guard. Make sure the blade is suitable for the material to be cut. If blade has been used to cut a material that is hard, it may have become dull, dress the blade by cutting a light weight abrasive building block to expose fresh diamonds. Blade dressing stones are available from your local Pearl Warehouse.

MOTOR WILL NOT START. Check power supply. If the water pump turns on when the power switch is in the "on" position, but the motor does not, have the motor serviced. **MOTOR WILL NOT STOP.** The contacts in the switch may have become arched together in the on position, have it serviced.

MOTOR SHUTS OFF DURING OPERATION. Check to see that the circuit you are using is not overloaded with lights or other equipment. The fuse or circuit breaker may not have sufficient capacity, use 20-amp power. If you are using an extension cord check the extension cord table to be sure it is heavy enough to carry the current this product will draw. *See Page 14* for electric cord reference.

EXCESSIVE VIBRATION Check to see that the blade is mounted properly according to safe operating practices section. Blade may be out of balance, try a different blade. Arbor shaft bearings possibly worn, have tool serviced.

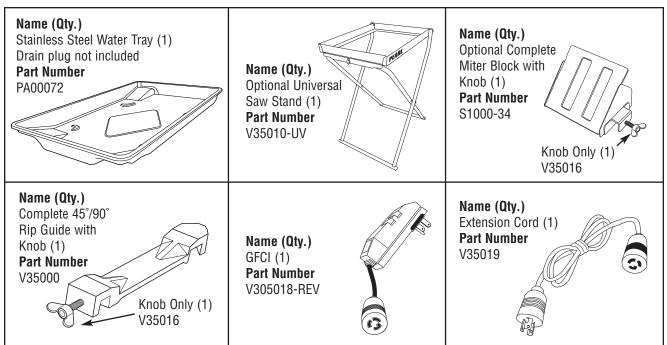
NOT CUTTING SQUARE. Check the main table and carriage adjustment as well as the blade alignment procedure located in the care and maintenance section.

MAIN TABLE DOES NOT MOVE FREELY. Inspect the guide rails and rollers for build up of tile chips or dry slurry deposits. Clean and check guide roll or adjustments, according to the procedure in the care and maintenance section.

NO WATER FLOW TO BLADE. Check the water feed tube for kinks or obstructions. Check the inlet screen to ensure it is not clogged. Remove the pump inlet and turn the impeller to ensure it is not damaged or jammed. Clean the impeller if necessary and apply a drop of light oil to the shaft - be sure the impeller spins freely.

POOR MACHINE PERFORMANCE WITH LITTLE POWER. Check cord/extension cable for appropriate length and gage. Check power network for sufficient power and circuit breaker capacity.

CENTER HOLE IN BLADE OVERSIZE OR WORN. Saw blade has slipped on shaft while running. Check shaft for damage and replace blade.



xiv. ACCESSORIES AND PARTS

xv.THE RIGHT BLADE DOES THE RIGHT JOB

PEARL BLADE	APPLICATION						
SERIES	CERAMIC TILE	EXTRA HARD CERAMIC	PORCELAIN	MARBLE	GRANITE	HARDSTONE	GLASS TILE
HPXL Series	\bigcirc	\odot	\odot	·	\odot	\odot	
DTLB19 Series	\bigcirc						
HP Series		\odot	\odot		\bigcirc		
Glass Blade							\odot
SH Series	\bigcirc			\bigcirc			
Pro-V Series	\bigcirc	\odot	•				

For the most effective cutting and blade life always use the recommended Pearl Abrasive Co. blade.

xvi. HOW TO ORDER PARTS

Please have the following information ready before calling:

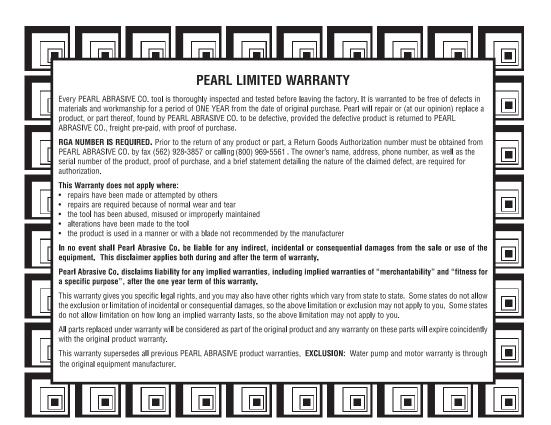
- Serial Number of your Tile Saw
- Model Number of the Tile Saw
- When purchased and where
- Part Description

All parts listed may be ordered from your Local warehouses. If the part is not stocked locally, call our Corporate office and ask for our Customer Service Department. For Technical Support call **1-800-969-5561**. In <u>Canada</u> call **1-800-387-0008**.

Return Policy: Return goods for credit or exchange on the basis of the following terms: (1) They must be current products; (2) Items returned for replacement or refund should be in original cartons and must be accompanied by a packing slip with the following information: Returned Goods Authorization (RGA) number obtainable from Customer Service Department • List of items returned • Reason(s) for return(s) • Copy of original invoice(s); (3) Freight charges must be assumed by sender; (4) Returning goods are subject to a 15% handling charge to cover our cost of repacking and restocking. All Prices are subject to change without notice.

Disclaimer: Pearl Abrasive Co. reserves the right to make changes or improvements on its products without incurring an additional obligation including any obligation to make corresponding changes or improvements to products previously manufactured or sold. Pearl reserves the right to discontinue products at any time without notice.

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www.pearlabrasive.com

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