You should record the Serial Number of your saw on this Owner’s/Operator’s Manual and on the Warranty Card. The Warranty Card must be sent back with all the required pertinent information for the warranty to take effect.

**Caution!** Read Safety and General Instructions carefully before using saw for the first time.
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ii. GENERAL SAFETY RULES AND PRECAUTIONS

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. 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.

25. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.

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.

CALIFORNIA PROPOSITION 65: 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.

WARNING! 

KEEP GUARD IN PLACE
DIAMOND BLADE
BLADE CUTTING DEPTH
ELECTRIC SWITCH OFF
ELECTRIC SWITCH ON
ELECTRICAL HAZARD
REMOVE TOOLS
PAY EXTREME ATTENTION
REPAIRS TO BE DONE
MACHINE HAZARD
FLAMMABLE
READ INSTRUCTIONS CAREFULLY
WARNING
FRAGILE
KEEP DRY
DO NOT STEP ON
WEAR HEARING PROTECTION
WEAR EYE PROTECTION
WEAR BREATHING PROTECTION
WEAR HARD HAT
WEAR PROTECTIVE CLOTHING
WEAR SAFETY SHOES
WELL VENTILATED
NO NON-WORKING PERSONNEL
iii. HEALTH WARNINGS

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

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

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

iv. FEATURES

The Pearl VX10RS PRO is a professional saw for cutting floor tiles, paving stones, stairs, large-sized natural stones, and similar materials.

- **Position lock cutting head**
- **Splash guard reduces water waste**
- **Powerful 1-1/2HP Induction motor cuts larger cuts larger**
- **Rubber matted cutting table**
- **Side Extension Table**
- **Blade capacity of 8-10” enhances cutting capacity**
v. SPECIFICATIONS

VX10RS PRO RAIL SAW

<table>
<thead>
<tr>
<th>MOTOR</th>
<th>BLADE CAPACITY</th>
<th>CUTTING LENGTH</th>
<th>CUTTING DEPTH</th>
<th>WEIGHT</th>
<th>DIMENSIONS* (legs folded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2 HP</td>
<td>8&quot;-10&quot; Blade</td>
<td>40&quot; rip cut,</td>
<td>8&quot;: 1-1/2&quot;</td>
<td>172 lbs.</td>
<td>L: 33.1&quot;</td>
</tr>
<tr>
<td>115 v, 60 Hz, 3,450 rpm</td>
<td>5/8&quot; arbor blade</td>
<td>28&quot; diagonal cut</td>
<td>10&quot;: 2-5/8&quot;</td>
<td>W: 18.7&quot;</td>
<td>W: 18.7&quot;</td>
</tr>
<tr>
<td>Induction motor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H: 24&quot;</td>
</tr>
</tbody>
</table>

*Dimensions do not include extension tables and drip trays.

vi. UNPACKING, ASSEMBLY & SET-UP

UNPACKING

Open the carton box cover by lifting the top portion. Locate the accessory box and check its content for the following items before discarding any packaging:

- Saw
- Universal Wrench
- Wheel Assemblies (2)
- Drain Plug
- Wing Screw
- Knobs (2)
- Masonry guide
- Pin (2)
- Water Pump
- Owner's Manual
- Rear Splash Guard
- Extension Table
- Lifting handles (2)

Proceed to the following section to complete assembly of the saw.
ASSEMBLY & SET-UP

1. Remove the carton box cover by lifting the upper cover.
2. Locate the accessory box and open it. Obtain the two lifting handles and install one on each end of the saw. Install it in the side furthest from the post.
3. Loosen the lock knob on top of the cutting head.
4. Deploy the stand legs by following the “folded leg assembly” section.
5. Install the side extension table, side splash guard and back splash guard.
6. Install the spring holder on top of the sliding rail to hold the power cable and the water hose.
7. Fill the tray with water before operating the saw.
SAW STAND ASSEMBLY

FOLDING STAND
1. It is recommended that adjusting the folding leg be done by at least two people.
2. Remove the detachable wheel assembly and stow it on the frame.
3. Shift the cutting head away from the end of the frame where the leg is being adjusted. Tighten the cutting head carriage knob to hold the head in place.
4. Loosen the knob that is locking the leg in place.
5. Lift the saw slightly to give the leg room to rotate into stow/deployed position.
6. Slide the leg in place and tighten the knob.
7. Repeat steps 2-4 as required to the remaining legs.

EASY TRANSPORT
1. It is recommended that adjusting the folding leg be done by at least two people.
2. Remove the detachable wheel assembly and stow it on the frame.
3. Shift the cutting head away from the end of the frame where the leg is being adjusted. Tighten the cutting head carriage knob to hold the head in place.
4. Loosen the knob that is locking the leg in place.
5. Lift the saw slightly to give the leg room to rotate into stow/deployed position.
6. Slide the leg in place and tighten the knob.
7. Insert the detachable wheel assembly in either the frame/leg position depending on need.
8. Make sure the head is on the side closest to the wheels before transporting the saw.
vii. BLADE INSTALLATION

WARNING! Disconnect the power plug before installing the blade onto the blade shaft.

WARNING! Setting the blade too low may damage the cutting table and if set too high, the blade may grab the material being cut, causing damage and possibly injury.

1. Loosen the knobs securing the blade guard and remove the guard.
2. Loosen the cutting shaft nut (left-hand thread); while loosening the nut, block the cutting shaft from turning.
3. Remove the blade clamping flange. Check that the contact area between the blade holder assembly and the diamond saw blade is clean.
4. Install the saw blade on the supporting flange. Ensure the blade rotation arrow matches the clockwise rotation of the saw blade shaft.
5. Install the blade clamping flange.
6. Re-tighten the cutting shaft nut. Block the cutting shaft from turning while tightening the nut.
7. Lightly turn the installed saw blade by hand and check the blade for true running.
8. Mount the blade guard.

viii. MOTOR CAPACITOR INSTALLATION

WARNING! Disconnect the power plug before servicing the motor.

1. Locate the aluminum housing on the side of the motor body.
2. Using a phillip/cross screw driver to remove the two screws to open the capacitor housing cover.
3. Pull the capacitor out and remove the two wire caps to disconnect the wires.
4. Replace the old capacitor with the new capacitor and reattach the wires using the same wire caps.
5. Close the capacitor cover and make sure the rubber gasket is properly in place so no water can seep into the housing.
Ix. **SIDE TABLE & SPLASH GUARD INSTALLATION**

Install the side table and splash guard as shown in the illustration to the side. Fasten the knobs/screws respectively to the saw frame.

![](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Remove the water pump from the box and check that it is not damaged.</td>
</tr>
<tr>
<td>2.</td>
<td>Place the water pump into the bracket at the left front corner of the water tray, as shown on right.</td>
</tr>
<tr>
<td>3.</td>
<td>Position the water outlet of the pump so that it lays horizontally. Connect the water hose from the blade guard to the water pump.</td>
</tr>
<tr>
<td>4.</td>
<td>Plug the power cord into the 3-prong receptacle coming from the power switch housing.</td>
</tr>
</tbody>
</table>

X. **WATER PUMP INSTALLATION**

A tube at the rear end of the saw filters the debris from the water produced during the cutting operation. Debris settles in the water tray while the water is allowed to pass through the tube and into the water bucket, where fresh and filtered water reside.

1. Remove the water level tube from the plastic bag.
2. Insert the thin end of the tube into the rear hole next to the water pump, as shown in the illustration.
3. Fill the water tray with water.

Xii. **THE ADJUSTABLE ANGLE GUIDE**

The Adjustable Angle Guide is a two-piece assembly consisting of a base and an attachment that rotates. This guide will support cutting angles between 0°, 22.5°, 30°, 45° and many more. The attachment has a casted angle indicator that show what angle the Angle Guide is currently set to support.
1. After you have made yourself familiar with the components of your saw, the machine has been properly set up, the bucket or water tray is filled with water, and the electrical connection is established in accordance with the relevant safety regulations, you may now begin with the cutting operation.

2. Before you start operation open the water shut-off valve.

3. During the operation, the user must stand in front side of the saw pulling on one of the two handles of the cutting head when cutting. The workpiece must rest on the work table and should be pressed tightly against the cutting fence on the table.

4. Always turn off the saw before you leave the machine unattended.

5. Prevent accidental restarting of the saw by unplugging the power cable.

**CUTTING AT CONSTANT DEPTH**

When cutting at constant depth the cutting head must be pulled against the work piece. The motor should be turned off when adjusting the cutting depth.

1. Before starting the cut, hold the current depth by firmly grasping the plunge handle extending from the blade guard. Set the cutting head at the desired cutting depth by first loosening the depth control knob on the side of the cutting head where the switch box is located.

2. Adjust the head to the blade depth/clearance desired. Tighten the depth control knob.

3. Put the workpiece securely on the cutting table. Have it positioned to achieve the desired cut.

4. Turn on the saw and slowly and uniformly pull the head along the guide rail and across the workpiece.

5. Slowly return the cutting head to the original starting position and turn off the motor.

**PLUNGE CUTS**

The handling of long or partial cuts can be made using the plunge cutting method. In this case, the cutting head will not be set to a fixed cutting depth/clearance while performing a cut. The cutting head is freely movable during seesaw cutting operations.

1. Before starting the cut, the cutting head must be fully raised. Be sure to grasp the plunge handle extending from the blade guard. Loosen the depth control knob on the side of the cutting head where the switch box is located.

2. Set the workpiece securely on the cutting table. Have it positioned to achieve the desired cut.

3. With the head fully raised, move to the desired start of cut along the path of the blade. Plunge the head and pull until the desired cut is complete.

4. Slowly return the cutting head to the original starting position and turn off the motor.

**THE CUTTING TABLE**

**FEATURES:**

- The easily removable cutting table is covered with an anti-skid rubber coating, which allows the material being cut to sit on the table while the cutting head is pulled through it.
- Simply line up the material being cut with the appropriate pre-marked lines on the cutting table.

**STEPS TO MAKE MITER CUTS:**

1. The bench saw is equipped with a hinged guide rail that allows the user to make accurate miter cuts.

2. To pivot the guide rail, lightly loosen the knobs at both ends of the saw.

3. Set the rail to the desired angle by using both hands to firmly hold the rail and rotating it. While still holding the rail at the desired angle, tighten each knob.

**WARNING!** Turn off the saw before pivoting the guide rail. Do not attempt to pivot the rail mid-cut. The saw blade must be clear of the material being cut and the saw must be turned off first!
CUTTING DEPTH

The recommended cutting depth is 1/4" below the cutting table surface. The cutting clearance has been fixed from original design.

<table>
<thead>
<tr>
<th>BLADE DIAMETER</th>
<th>CUTTING DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 inch</td>
<td>1-1/2 inch</td>
</tr>
<tr>
<td>10 inch</td>
<td>2-5/8 inch</td>
</tr>
</tbody>
</table>

⚠️ WARNING! Setting the blade too low may damage the cutting table and if set too high, the blade may grab the material being cut, causing damage and possibly injury.

xv. CHOOSING THE RIGHT BLADE

- The blade shaft speed of this saw is exclusively designed for cutting with diamond saw blades. The saw may only be used for cutting natural and artificial stone materials, do not cut wood or metal!
- The saw uses diamond saw blades with diameters up to 10". Saw blades with larger diameters must not be installed on the saw.
- Choose the correct type of saw blade for the material to be cut and the required cutting depth.

THE RIGHT BLADE DOES THE RIGHT JOB

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

<table>
<thead>
<tr>
<th>PEARL BLADE SERIES</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CERAMIC TILE</td>
</tr>
<tr>
<td>Reactor ADM</td>
<td>●</td>
</tr>
<tr>
<td>HPXL Series</td>
<td>●</td>
</tr>
<tr>
<td>HP Series</td>
<td>●</td>
</tr>
<tr>
<td>Turbo Mesh</td>
<td>●</td>
</tr>
<tr>
<td>DTLB19 Series</td>
<td>●</td>
</tr>
<tr>
<td>Pro-V Series</td>
<td>●</td>
</tr>
<tr>
<td>Glass Blade</td>
<td>●</td>
</tr>
<tr>
<td>SH Series</td>
<td>●</td>
</tr>
</tbody>
</table>
**WET CUT BLADES**

**DO’S**
- 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.
- Secure the blade to the arbor with a wrench.
- Use proper safety equipment when operating the saw.
- Periodically check the blade for cracks or bond fatigue.
- Always have a continuous flow of water on both sides of blade.

**DON’T’S**
- Do not operate the saw without safety guards in position.
- Do not operate the saw with blades larger than 10”.
- 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**

**DO’S**
- 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.

** DON’T’S**
- 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.
GENERAL RULES

• Always clean the machine before maintenance/repair.
• Before cleaning/maintenance/repair, the machine must be switched off with the main power key.

STEPS TO FOLLOW WHEN CLEANING

1. 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.
2. Use a cloth which may be lightly moistened only for removing dust and dirt. Hard-packed dirt can be removed with a soft brush.
3. 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.
4. 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.
5. Do not "rinse" the bearings of the drive elements to prevent them from running dry. The ball bearings of the machine are permanently lubricated.
6. After cleaning, remove all covers and adhesive tape. All screws/nuts which you may have loosened must be tightened again.
7. After wet cleaning, plug the machine to a power outlet which is equipped with a ground fault current interrupt. If the device cuts power, the machine must be inspected by an authorized dealer prior to use!

AFTER EVERY USE OF THE SAW:

• Remove dirty water from container.
• Remove dirt and mud from the bottom of the container.
• Rinse the immersion pump with fresh water to prevent water pump clogging from residual dirt.

AFTER WET CLEANING AND BEFORE USING THE SAW 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.

BEFORE & AFTER A PROLONGED TIME

BEFORE NOT USING THE MACHINE FOR A PROLONGED PERIOD OF TIME:

• Clean and lubricate all movable parts. DO NOT GREASE THE GUIDE RAILS.

AFTER NOT USING THE MACHINE FOR A PROLONGED PERIOD OF TIME:

• Check that the legs are safely fixed.
• Check that all screw joints and nuts are fixed.
• Check that the roller table is rolling on the rails and that it moves securely back and forth. 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 valve if applicable and switch the machine on. If the pump does not give any water or only a little, switch the machine.

TEMPERATURE CHANGES

AMBIENT TEMPERATURE BELOW 37°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, the bearing house and the water hose.
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. Unscrew the pump filter.
2. Remove the water pump from the water tray/container.
3. Clean the water pump exterior.
4. Clean the interior where the fan is by removing the fan cover. If gasket is installed, be careful not to damage it.
5. The fan can be removed by using pliers to pull it off. Careful not to damage the fan or the motor shaft. With it removed, the entire volute can be cleaned easily.
6. Spin the pump shaft by hand. It should rotate almost effortlessly. Then press the cleaned fan back onto the blade. Note to align the shaft geometry with that of the blade bore before pressing it back on. Do not press the fan too far down the shaft or it may not rotate. Spin the fan blade by hand to confirm it can spin effortlessly.
7. Reassemble the fan cover.
8. Plug the water pump in briefly to check whether it works properly.

REMINDER: There are 3 methods to adjust the alignment:
1. Cutting fence.
2. Bridge.
3. Cutting head
Note: Usually adjustment method 1 and 2 are the most common.

METHOD 1: CUTTING FENCE
1. Loosen the bolts that secure the cutting fence.
2. Using a steel square, as shown in Fig. 1, align the square’s long arm with the blade. Both the front and the rear end of the blade’s rim should have contact.
3. Adjust the cutting fence such that the fence face sits flush with the steel square’s short arm.
4. Now move the cutting head back and forth, along the bridge, to check for consistent blade contact with the steel square. Make sure the short arm does not move during this process. Interference from the blade may move the steel square away from the cutting fence.
METHOD 2: BRIDGE
1. Loosen the bolts that secure the bridge (Fig. 2). DO NOT REMOVE THE BOLTS AS THE BRIDGE AND CUTTING HEAD WILL FALL.

2. Repeat steps listed in method 1 to align the fence.

3. Now if the cutting fence does not move enough to align the cutting head, the bridge may be shifted as shown in the illustration below.

Adjustment range of the bridge/rail

The post holes allow movement of the bridge +/- 0.5mm in either the left or right direction.

METHOD 3: CUTTING HEAD
1. Underneath the carriage cover is four bolts (size 13 wrench) that hold the head’s two sub-assembly together. The upper assembly is the carriage and the lower assembly is the actual cutting head. The three bolts highlighted by the balloon “C”, in the illustration below are the actual bolts that need to be loosened. Only loosen the bolts enough that the lower sub-assembly can move, changing the blade shaft’s orientation. The fourth bolt is the pivoting bolt and does not have to be loosened.

2. If the blade is constantly shifting left, using Fig. 4 as reference, the cutting head must be rotated counterclockwise (left).

3. If the blade is constantly shifting right, using Fig. 4 as reference, the cutting head must be rotated clockwise (right). Note: The cutting head should glide effortlessly across the bridge. Should the head be too tight or too loose, adjust the rollers on the left (A) using a size 17 wrench to rotate it. Rollers on the right (B) are fixed so they cannot be adjusted.

Fig. 5 depicts how aligning the blade with the steel square does not always mean the head is aligned with the bridge.

1. The solid line represents the steel square.

2. The dotted line represents the bridge and ACTUAL travel direction of the cutting head.

3. The rectangular box represents the blade/cutting head orientation. As the user pushes/pulls the cutting head if the cutting head is not properly aligned with the bridge, the blade will always moves away from the steel square.
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MACHINE DOES NOT RUN WHEN SWITCHED ON</strong></td>
<td>- Power cord not properly fixed/plugged in.</td>
<td>- Check that the machine is properly connected to the power supply.</td>
</tr>
<tr>
<td></td>
<td>- Power cord defective.</td>
<td>- Have the power cord checked, replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>- Main power switch defective.</td>
<td>- Have the main power switch checked and replace if necessary by a qualified electrician.</td>
</tr>
<tr>
<td></td>
<td>- Loose electrical connection inside the electric system.</td>
<td>- Have the whole electric system of the machine checked by a qualified electrician.</td>
</tr>
<tr>
<td></td>
<td>- Motor defective.</td>
<td>- Have the motor checked and replaced if necessary by a qualified technician.</td>
</tr>
<tr>
<td><strong>MOTOR Stops (Power Cut Out)</strong></td>
<td>- Too much pressure exerted while cutting.</td>
<td>- Exert less pressure when cutting.</td>
</tr>
<tr>
<td></td>
<td>- Incorrect specification for saw blade.</td>
<td>- Use a saw blade which corresponds to the material being cut.</td>
</tr>
<tr>
<td></td>
<td>- Saw has a defective electric system.</td>
<td>- Have the electric system of the saw checked by a qualified technician.</td>
</tr>
<tr>
<td><strong>POOR MACHINE PERFORMANCE LITTLE POWER</strong></td>
<td>- Power cord/extension cable too long or cable still wound up inside cable drum.</td>
<td>- Use a power cord/extension cable of the rated length, use a cable drum with cable fully extended.</td>
</tr>
<tr>
<td></td>
<td>- Power network is insufficient.</td>
<td>- Observe the electrical ratings of the machine and connect it only to a power network which complies with these ratings.</td>
</tr>
<tr>
<td></td>
<td>- Drive motor no longer runs at rated speed (r.p.m.).</td>
<td>- Have the motor checked by a qualified electrician and have it replaced if necessary.</td>
</tr>
<tr>
<td><strong>INSUFFICIENT FLOW OF COOLING WATER OR NO COOLING WATER AT ALL</strong></td>
<td>- The pump draws air.</td>
<td>- Fill the container with water.</td>
</tr>
<tr>
<td></td>
<td>- Filter clogged.</td>
<td>- Clean the filter of the pump.</td>
</tr>
<tr>
<td></td>
<td>- Pump wheel of the immersion pump blocked by dirt.</td>
<td>- Disassemble the immersion pump and clean.</td>
</tr>
<tr>
<td><strong>IRREGULAR RUN OF THE SAW BLADE</strong></td>
<td>- Poor tension in the blade material.</td>
<td>- Return the saw blade to the manufacturer.</td>
</tr>
<tr>
<td><strong>SAW BLADE WOBBLING WHEN RUNNING</strong></td>
<td>- Saw blade is damaged or bent.</td>
<td>- Have the saw blade aligned/ flattened.</td>
</tr>
<tr>
<td></td>
<td>- Solder the diamond segments of the old blade onto another saw blade or use a new blade.</td>
<td>- Clean the receiving flange.</td>
</tr>
<tr>
<td></td>
<td>- Flange of the saw blade is damaged. Shaft of the motor bent.</td>
<td>- Replace the saw blade flange.</td>
</tr>
<tr>
<td></td>
<td>- Overheating of the saw blade; cooling water not sufficient.</td>
<td>- Replace the electric motor.</td>
</tr>
<tr>
<td><strong>DIAMOND SEGMENT BECOMES LOOSE</strong></td>
<td>- Overheating of the saw blade; cooling water not sufficient.</td>
<td>- Have the diamond segment soldered on the blade again; ensure optimum flow of cooling water.</td>
</tr>
</tbody>
</table>
### Problem Possible Cause Solution

**Excessive Wear**
- Wrong type of saw blade.
- Shaft of motor causes wobbling.
- Overheating.
- Saw blade type is unsuitable for the material being cut.
- Saw blade type is unsuitable for the machine performance.
- Saw blade too hard.
- Diamond segments are blunt.
- Use harder saw blades.
- Have bearings of the motor or the motor replaced.
- Ensure optimum flow of cooling water.

**Saw Blade is Blunt**
- Saw blade type is unsuitable for the material being cut.
- Saw blade type is unsuitable for the machine performance.
- Saw blade too hard.
- Diamond segments are blunt.
- Use appropriate type of saw blade.
- Return the saw blade to the manufacturer.
- Sharpen the diamond saw blade.

**Appearance of Cut is Not Optimal**
- Poor tension in the blade material.
- Too much load placed on the saw blade.
- Diamond segments are blunt.
- Use a suitable saw blade.
- Sharpen the saw blade.

**The Center Hole in the Saw Blade has Become Wider Due to Wear**
- The saw blade has slipped on the motor shaft when running.
- The arbor of the saw blade must be fitted with an appropriate adaptor ring.
- Check the receiving flange and have it replaced if necessary.
- Ensure an optimum flow of cooling water.

**Saw Blade Shows Blooming Colors**
- Saw blade overheating due to a lack of cooling water.
- Lateral friction when cutting.
- The material feed is too high; proceed more slowly.
- Ensure that the direction of feed is absolutely parallel to the saw blade.
- Adjust the roller table or have it adjusted.
- Have the saw blade tensioned.

**Grinding Marks on the Saw Blade**
- Material is not being fed parallel to the saw blade.
- Poor tension in the blade material.
- Too much load on the saw blade.
- The material feed is too high, proceed more slowly.
- The material feed is too high, proceed more slowly.
- Use a suitable saw blade.
- Sharpen the saw blade.

---

**xxi. 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 Canada, call **1-800-387-0008**. There is a $25.00 minimum order.

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.

All illustrations displayed in this manual are the property of Pearl Abrasive Co. and shall not be duplicated or reproduced without the express written consent of Pearl Abrasive Co.

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**xxii. Customer Service**

**AFTER SALE SERVICE**

All customer service (technical questions, re-order of parts, etc.) will be provided by our company. All spare parts for after sales service will be stocked and shipped from our warehouse. If requested, we may arrange for our sales representatives to hold a training class for product knowledge at dealer’s location.
CUTTING HEAD ASSEMBLY

<table>
<thead>
<tr>
<th>PART NAME</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting head weldment - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>1.5HP Electric motor - KWW105</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Rail carriage assembly - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M10 x 1.5 x 230 Slot bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Helical Spring</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Power switch housing complete</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Cutting head position bracket - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M6 x 1.0 Screw boot</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>80μF/250VAC 50/60Hz Capacitor</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>320 d17 Rubber grommet</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>200 x 10L M5 Rubber stop</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>35DX120L Handle with rubber sleeve</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>(3/8)M10 x 25 x 2T Teflon washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M5 x 10 x 1T Narrow washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M14 x 26 x2T Wide washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 8 x 1T Narrow washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 Spring Lock Washer</td>
<td>PLEASE CALL</td>
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<tr>
<td>M4 Spring Lock Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>13mm OD hose clip</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 0.7 x 12L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 0.7 x 25L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Female M10 X 1.5 Knob</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M6 x 1.0 x 30L Knob</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M14 x 2.0 Nut</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M8 x 1.25 x 16L Hex Flange bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M10 x 1.5 x 260L x 2S Socket head cap hex screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M10 Wide washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M10 x 1.5 Nylon nut</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 0.7 x 10 Countersunk cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 0.7 x 10L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Capacitor housing</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Gasket</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Capacitor housing cover</td>
<td>PLEASE CALL</td>
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<tr>
<td>Fan cover</td>
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<tr>
<td>Fan</td>
<td>PLEASE CALL</td>
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<tr>
<td>PG-13.5 Cable gland</td>
<td>PLEASE CALL</td>
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<tr>
<td>PG-11 Cable gland</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 0.7 x 14L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M5 x 0.8 x 16L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
</tbody>
</table>
MAIN ASSEMBLY

PART NAME
1 CR1080S
2 M12 x 1.75 Nut
3 M6 x 1.0 x 10L Wing screw
4 M6 x 1.0 Female knob
5 10° Inner flange
6 10° Outer flange
7 Water Pump
8 Splash guard
9 M8 x 1.25 Male knob
10 35D x 120L Handle with rubber
11 Extension table - Black
12 180 Degree adjustment angle guide
13 Frame assembly w/4 of legs - Black
14 Cutting fence extension w/wing screw
15 Long side extension table w/rubber mat and 2 legs
16 GFCI with 6FT x L5-15P Female plug
17 Angle guide
18 Optional

PART NUMBER

BLADE GUARD

PART NAME
1 Outer blade guard weldment - Black
2 Plastic male 5/16" x male 5/16" barbed straight valve
3 12D 8d X 120L Reinforced water hose
4 12D 8d X 180L Reinforced water hose
5 12D 8d X 2430L Reinforced water hose
6 Splash guard
7 M6 x 1.0 x 16L Cross hex bolt
8 M4 x 0.7 x 20L Cross screw
9 M6x13x1T Wide Washer
10 Barbed wye tube fitting
11 12D 8d X 90L Reinforced water hose
12 12D Hose clamp
13 M4 x 0.7 x 8L Cross screw

PART NUMBER

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<table>
<thead>
<tr>
<th>PART NAME</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Frame weldment - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>2 Post A - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>3 Post B - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>4 (½/16) M8 x 25 x 1.8 Washer (electroplated)</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>5 M10 (D41 d10.5 X 3L) Wide washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>6 M5 x 10 x 1 Flat Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>7 M6 Spring Lock Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>8 M5 Spring Lock Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>9 M 8 x 1.25 Nylon Nut</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>10 M6 x 1.0 Nut</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>11 Male seven lobe T1 knob M10 x 1.5 x 25L</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>12 Bridge/Rail</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>13 Rear leg weldment</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>14 Front leg weldment</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>15 Cable suspension spring</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>16 Spring rest</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>17 M10 x 1.5 x 20L Cap hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>18 M10 x 1.5 Nylon Nut</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>19 M10 x 1.5 x 20L Wing screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>20 Cable clamp</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>21 M4 x 0.7 x 10L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>22 Safety pin with chain</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>23 6 inch Wheel assembly</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>24 Overflow plug assembly</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>25 Table assembly</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>26 Table support screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>27 Table support feet arrangement</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>28 20D x 10L M5 Rubber stop</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>29 M6 x 1.0 x 25L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>30 M5 x 0.8 x 25L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>31 M5 x 0.8 x 35L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>32 M8 x 1.25 x 25L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>33 Ruler guide</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>34 D4 X 45L Hairpin cotter pin (25D shaft)</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>35 M5 x 0.8 x 16L Cross screw</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>36 M6 x 18 x 1.81 Very Big Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>37 M6 x 1.0 x 16L Hex bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>PART NAME</td>
<td>PART NUMBER</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Cutting head weldment - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>1.5HP Electric motor - KWW105</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Rail carriage assembly - Black</td>
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</tr>
<tr>
<td>M10 x 1.5 x 230 Slot bolt</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Helical Spring</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Cutting head position bracket - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Power switch housing complete</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>Cutting head position bracket - Black</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M6 x 1.0 Screw boot</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>80uF/250VAC 50/60Hz Capacitor</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>32D d17 Rubber grommet</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>200 x 10L M5 Rubber stop</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>35D x 120L Handle with rubber sleeve</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>(3/8)M10 x 25 x 2T Teflon washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M5 x 10 X1 Narrow washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M14 x 26 x2T Wide washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 x 8 x 11 Narrow washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M14 Spring Lock Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>M4 Spring Lock Washer</td>
<td>PLEASE CALL</td>
</tr>
<tr>
<td>19 13mm OD hose clip</td>
<td>PLEASE CALL</td>
</tr>
</tbody>
</table>

CUTTING HEAD ASSEMBLY
CUTTING HEAD SUB-ASSEMBLY

<table>
<thead>
<tr>
<th>PART NAME</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Carriage B weldment - Black</td>
</tr>
<tr>
<td>2</td>
<td>Concentric flat roller</td>
</tr>
<tr>
<td>3</td>
<td>Eccentric flat roller</td>
</tr>
<tr>
<td>4</td>
<td>Eccentric flat roller</td>
</tr>
<tr>
<td>5</td>
<td>Slide handle with rubber sleeve</td>
</tr>
<tr>
<td>6</td>
<td>M8 x 18 x 1.8T Wide washer</td>
</tr>
<tr>
<td>7</td>
<td>M8 Spring lock washer</td>
</tr>
<tr>
<td>8</td>
<td>M8 x 1.25 x 12L Hex bolt</td>
</tr>
<tr>
<td>9</td>
<td>M8 x 1.25 x 16L Hex bolt</td>
</tr>
<tr>
<td>10</td>
<td>M8 x 1.25 Nut</td>
</tr>
</tbody>
</table>

SWITCH BOX ASSEMBLY

<table>
<thead>
<tr>
<th>PART NAME</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lower power switch assembly</td>
</tr>
<tr>
<td>2</td>
<td>Upper power switch assembly</td>
</tr>
<tr>
<td>3</td>
<td>M 4 X 1.59 X 12L Cross tapping screw</td>
</tr>
<tr>
<td>4</td>
<td>Switch box upper housing</td>
</tr>
<tr>
<td>5</td>
<td>Reset button boot</td>
</tr>
<tr>
<td>6</td>
<td>Toggle Switch Boot</td>
</tr>
<tr>
<td>7</td>
<td>Power switch shield / Toggle Switch Safety Bracket</td>
</tr>
<tr>
<td>8</td>
<td>15A/125V Toggle switch with rubber boot</td>
</tr>
<tr>
<td>9</td>
<td>18A/125V Circuit breaker</td>
</tr>
<tr>
<td>10</td>
<td>Switch box lower housing</td>
</tr>
<tr>
<td>11</td>
<td>Junction box</td>
</tr>
<tr>
<td>12</td>
<td>14AWGx3C X 3M NEMA 5-15P Power plug</td>
</tr>
<tr>
<td>13</td>
<td>18AWGx3C X 2M NEMA 5-15R Power cable</td>
</tr>
<tr>
<td>14</td>
<td>PG-11 Cable gland</td>
</tr>
<tr>
<td>15</td>
<td>PG-9B Power cable gland</td>
</tr>
<tr>
<td>16</td>
<td>M4 x 8 x 1T Teflon washer</td>
</tr>
</tbody>
</table>
PEARL LIMITED WARRANTY

Every PEARL ABRASIVE CO. tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects in materials and workmanship for a period of ONE YEAR from the date of original purchase. Pearl will repair or (at our option) replace a product, or part thereof, found by PEARL ABRASIVE CO. to be defective, provided the defective product is returned to PEARL ABRASIVE CO., freight pre-paid, with proof of purchase.

RGA NUMBER IS REQUIRED. Prior to the return of any product or part, a Return Goods Authorization number must be obtained from PEARL ABRASIVE CO. by fax (562) 928-3957 or calling (800) 969-5561. The owner's name, address, phone number, as well as the serial number of the product, proof of purchase, and a brief statement detailing the nature of the claimed defect, are required for authorization.

This Warranty does not apply where:
- repairs have been made or attempted by others
- repairs are required because of normal wear and tear
- the tool has been abused, mistreated or improperly maintained
- alterations have been made to the tool
- the product is used in a manner not recommended by the manufacturer

In no event shall Pearl Abrasive Co. be liable for any indirect, incidental or consequential damages from the sale or use of the equipment. This disclaimer applies both during and after the term of warranty.

Pearl Abrasive Co. disclaims liability for any implied warranties, including implied warranties of “merchantability” and “fitness for a specific purpose”, after the one year term of this warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation or exclusions on how long an implied warranty lasts, so the above limitation may not apply to you.

All parts replaced under warranty will be considered as part of the original product and any warranty on these parts will expire coincidently with the original product warranty.

This warranty supersedes all previous PEARL ABRASIVE product warranties. EXCLUSION: Water pump and motor warranty is through the original equipment manufacturer.

PEARL®

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