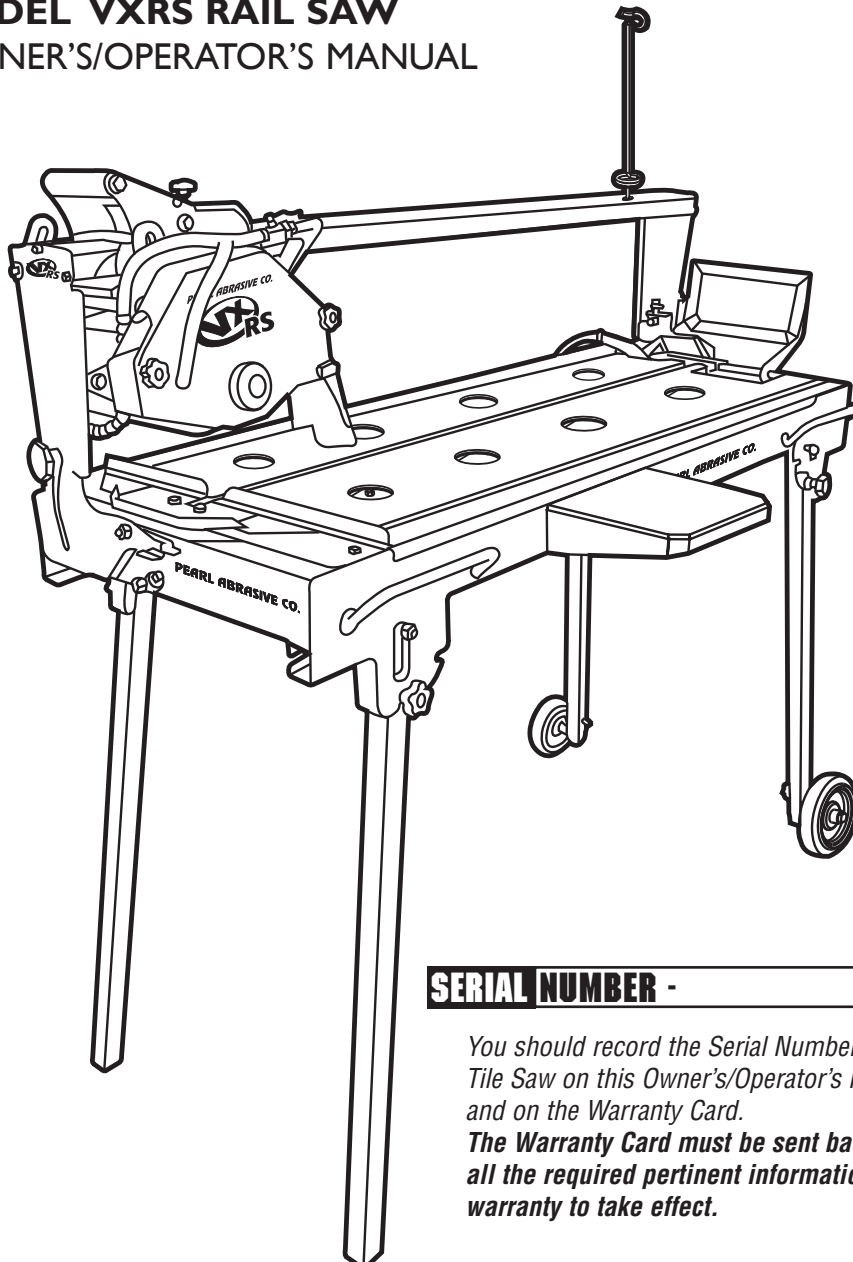


PEARL®

MODEL VXRS RAIL SAW OWNER'S/OPERATOR'S MANUAL



SERIAL NUMBER -

*You should record the Serial Number of your Tile 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.*

REV. 1

Patents Pending
Assembled in U.S.A.

PEARL ABRASIVE CO.  RAIL SAW

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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.



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 its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or 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.



! WARNING! 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.



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

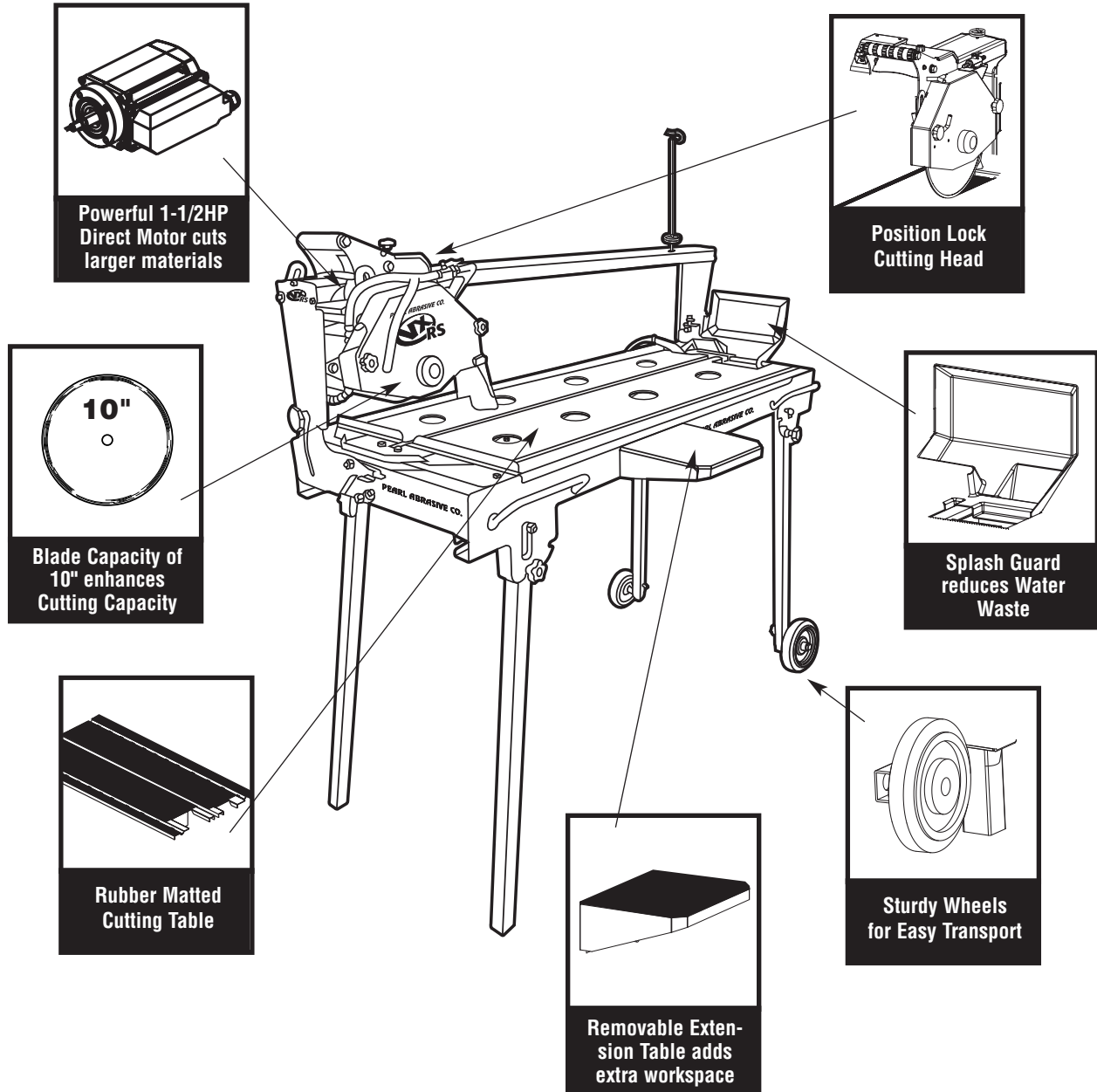
iv. SPECIFICATIONS

VX10RS RAIL SAW					
MOTOR	BLADE CAPACITY	CUTTING LENGTH	CUTTING DEPTH	WEIGHT	DIMENSIONS
1-1/2 HP 115 v, 60 Hz, 3,450 rpm Induction motor	8"-10" Blade 5/8" arbor blade	37" rip cut, 24" diagonal cut	2-5/8"	145 lbs.	33.1" L x 18.7" W x 12.7" H

The VX10RS professional rail saw is used for cutting floor tiles, paving stones, stairs, larged-sized natural stones , and similar materials.

v. FEATURES

The VX10RS Stone Saws are designed with water flow control in mind. The water pump, inside the tray or as an option it can be used inside a bucket, a water control valve and splash guards ensure proper water flow during operation.



vi. UNPACK, ASSEMBLY & SET-UP

UNPACK

Open the container, carefully lift the saw frame handles and place it on a flat, level working area. Be certain that you have the following items before you discard the container:

Saw	Water Pump
Fold-in Legs with Wheels	Water Level Tube
10" Saw Blade	Owner's Manual
Multiple Rip Guide	Drain Plug
Multiple Wrench	Bucket

Proceed to the following section to complete assembly of the saw.

ASSEMBLY & SET-UP

- Remove the carton box cover from the wooden frame.
- Remove saw from the crate.
- Loosen the lock knob on top of the cutting head.
- Install the side extension table, side splash guard and back splash guard.
- Install the spring holder on top of the sliding rail to hold the power cable and the water hose
- Fill the tray with water before operating the saw.

vii. SAW LEGS ASSEMBLY

1. FOLD-IN LEGS

- Lifting up one side of the saw, slide in the legs (with no wheels) to the front side of the saw. Lock the wing nut to tighten the legs in place.
- Lift up the other side of the saw and slide in the legs with the wheels. Lock the wing nut to fasten the legs in place.

2. EASY TRANSPORT

- Unlock the wing nut. Lift up the back side of the saw and slide the legs with wheels, lock the wing nut.
- Go to the other side of the saw and unlock the wing nut. Lift up the other side of the saw and insert the legs, lock the wing nut. Using the legs as handles, tilt the saw diagonally and roll the saw on the wheels like a dolly.

viii. BLADE INSTALLATION

- Loosen the knurled nuts securing the blade guard and remove the guard.

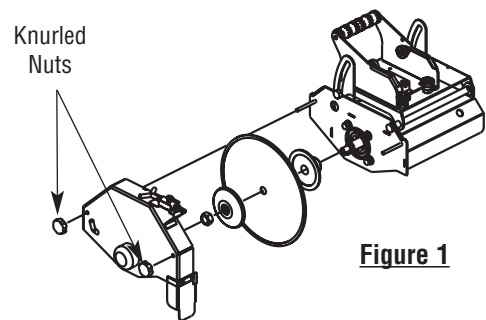


Figure 1

- Loosen the cutting shaft nut (left-hand thread); while loosening the nut, block the cutting shaft from turning.
- Remove the blade clamping flange. Check that the contact area between the blade holder assembly and the diamond saw blade is clean.
- Install the saw blade on the supporting flange, ensuring the correct sense of rotation marked by the arrow on the blade.
- Install the blade clamping flange.
- Retighten the cutting shaft nut. Block the cutting shaft from turning while tightening the nut.
- Lightly turn the installed saw blade by hand and check the blade for true running.
- Mount the blade guard.

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.*

ix. CUTTING HEAD INSTALLATION

1. Slide the motor into the body of the cutting head mainframe, holding the motor front (outer) ring insert into the mainframe bracket.
2. Holding the cutting head steady, insert 4 bolts onto the front end of the motor through the cutting head mainframe. Lock the bolts tight to hold the motor in position.
3. Insert the inner flange onto the blade shaft against the motor's front end.
4. Place the blade onto the shaft making sure the directional arrows are pointing in the direction of the shaft rotation. Secure in place with the outer flange and blade shaft nut.
5. Insert the main long bolt in the upright of the front plate while holding the cutting head mainframe, lock it tight in position. Insert the second long bolt into the height adjustment slot and lock it tight in position. Place the tension spring into position for height adjustment. See figure 2.

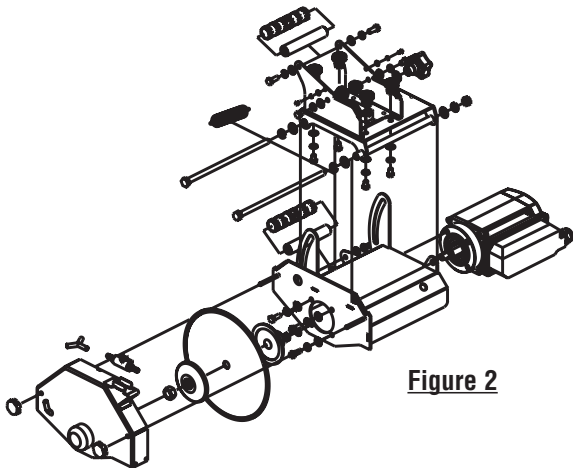


Figure 2

x. SIDE TABLE & SPLASH GUARD INSTALLATION

1. Install the side table and splash guard as shown in figure 3 to the side. Fasten the screws respectively to the saw frame.

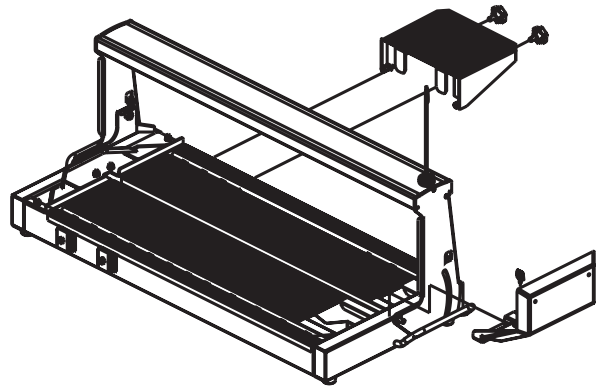


Figure 3

xi. WATER PUMP INSTALLATION

1. Remove the water pump from the box and check that it is not damaged.
2. Place the pump into the bracket at the right front corner of the water tray along its side so that the water outlet is positioned horizontally. Connect the water hose from the blade guard to the pump and plug the power cord into the 3-prong receptacle.
3. Fill the water tray so that the water intake is fully immersed.
4. Be sure to support the pump during installation to prevent pump failure or damage.

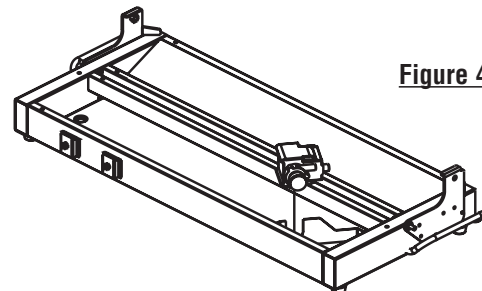


Figure 4

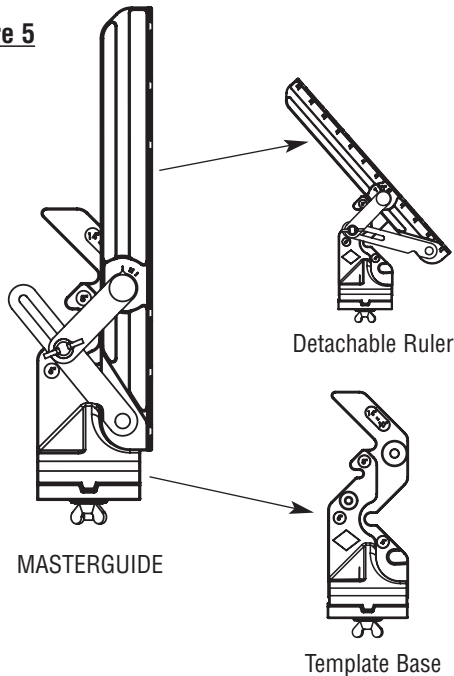
⚠ WARNING! *Disconnect the pump before attempting to handle the pump. Never operate pump without water in the tray.*

xii. THE RIP GUIDE

The MasterGuide is a two-piece assembly consisting of a template base and a unique detachable ruler guide. This permits any cutting angle between 0° and 45° , with 22° and 30° clearly designated. The ruler guide also doubles as a measurement tool to accurately measure slabs up to a foot in length.

The MasterGuide has a locking mechanism that secures the ruler guide firmly to the template base.

Figure 5



WARNING! Always lock the rip guide prior to transporting the saw.

xiii. OPERATING THE SAW

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 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, holding the handle of the swivel-joint cutting head with his left hand. The workpiece must rest on the work table and should be pressed tightly

against the side and limit stops with the right hand.

4. Always turn off the saw before you leave the machine unattended.
5. After the cutting operation is finished, prevent accidental restarting of the saw by pushing the emergency stop from the switch bracket and unplugging the power cable.

A. CUTTING AT CONSTANT DEPTH

When cutting at constant depth the cutting head must be pulled against the workpiece.

- Before you start cutting, set the cutting head at the desired fixed cutting depth.
- Then use the handle to pull the cutting head slowly and uniformly along the guide rail and across the workpiece.
- Push the cutting head fully back after you finished the cut.

B. PLUNGE CUTS

The handling of larger cutting depths can be simplified using the plunge cutting method.

- In this case, the cutting head will not be set to a fixed position while performing the cut.
- As you have not fixed the saw at a defined depth, the cutting head is freely movable during seesaw operations.
- Hold the handle of the cutting head with your left hand and move it to and fro across the workpiece while lightly pressing the cutting head downwards in a discontinuous movement.

xiv. USING THE CUTTING TABLE

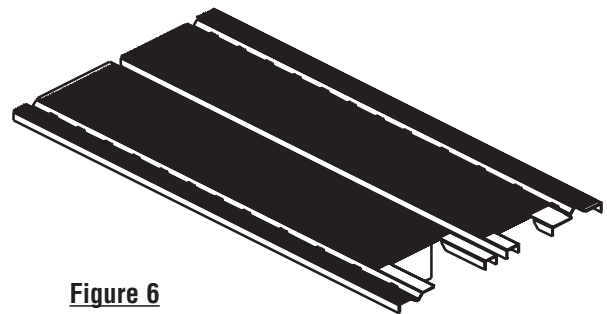


Figure 6



FEATURES

- The easily removable cutting table is covered with an anti-skid rubber coating, which allows the material being cut to sit still 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 mitre cuts.
2. To pivot the guide rail, lightly loosen the palm grips at both front sides of the saw.
3. Set the rail to the desired angle.
4. Firmly re-tighten the palm grips after setting the guide rail.

xv. CUTTING DEPTH

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

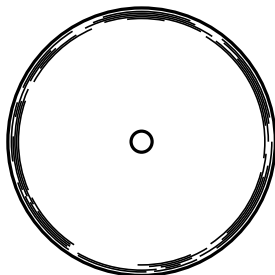
For the most effective cutting and blade life always use the recommended Pearl Abrasive Co. diamond blades.

BLADE DIAMETER	CUTTING DEPTH
8 inch	1-1/2 inch
10 inch	2-5/8 inch

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.*

xvi. 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!

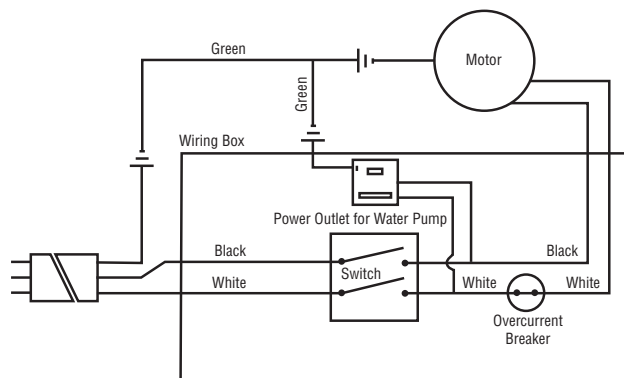
- The saw uses diamond saw blades with diameters up to 10". Saw blades with larger diameters must not be installed on the saw.
- Choose the correct type of saw blade for the material to be cut and the required cutting depth.

xvii. ELECTRIC MOTOR SPECIFICATIONS

HORSE POWER	1-1/2 HP
VOLTS	115 volts
AMPS	15 amp
MOTOR RPM	3450 rpm
CYCLE	60 Hz
PHASE	1

RECOMMENDATIONS

- It is recommended that a **15 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 this correct extension cord. Never use more than one extension cord at a time. Follow the chart for proper size.

WIRE GAUGE	LENGTH OF CORD
1-1/2 hp 115V	
No. 12	25'
No. 10	50v
No. 8	75'

xviii. THE RIGHT BLADE DOES THE RIGHT JOB

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

PEARL BLADE SERIES	APPLICATION						
	CERAMIC TILE	EXTRA HARD CERAMIC	PORCELAIN	MARBLE	GRANITE	HARDSTONE	STONE
DTLB19 Series	○						
GRT Series		○	○		○	○	
SD Series					○	○	○
SH Series	○			○			
SHD Series		○	○		○	○	

xix. DO'S AND DONT'S FOR BLADES

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.

DONT'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.

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.

DONT'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.

xx. 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 maintenance/repair.
- Before cleaning/maintenance/repair, the machine must be switched off with the main power key.

STEPS TO FOLLOW WHEN CLEANING

- a. 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.
- b. Use a cloth which may be lightly moistened only for removing dust and dirt. Hard packed dirt can be removed with a soft brush.
- c. 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.
- d. 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.
- e. Do not "rinse" the bearings of the drive elements to prevent them from running dry. The ball bearings of the machine are permanently lubricated.
- f. After cleaning, remove all covers and adhesive tape. All screws/nuts which you may have loosened must be tightened again.
- g. 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 water pump clogging from 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.

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 in its guides and that it easily moves to and fro.
- 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.

TEMPERATURE CHANGES

AMBIENT TEMPERATURE BELOW 37°F (WINTER)

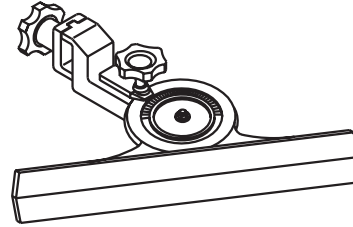
- To prevent the water in the pump and cooling system from freezing, remove the water after using the machine or when there will be a long break. Make sure that the cooling system is entirely drained so that there is no water left inside the pump, the bearing house and water hose.

xxi. WATER PUMP MAINTENANCE

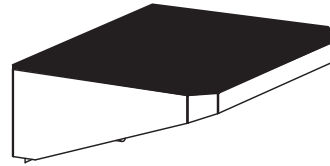
When the machine has not been used for a long period of time, hard packed dirt may begin to build up inside the pump and block the pump wheel. If the machine is activated with the immersion pump blocked, the electric motor of the pump will be damaged within a few minutes. Please follow the steps listed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

1. Unscrew the pump filter.
2. Remove the immersion pump from the water container.
3. Clean the immersion pump.
4. Loosen the fixing screws of the pump lid.
5. Take the lid off the pump (be careful not to damage the gasket located inside with a sharp object)
6. Clean the pump lid.
7. Remove all dirt and incrustations from the pump wheel.
8. Check whether the pump wheel can be easily turned.
9. Then reassemble the immersion pump correctly and check whether it works properly.

xxii. ACCESSORIES

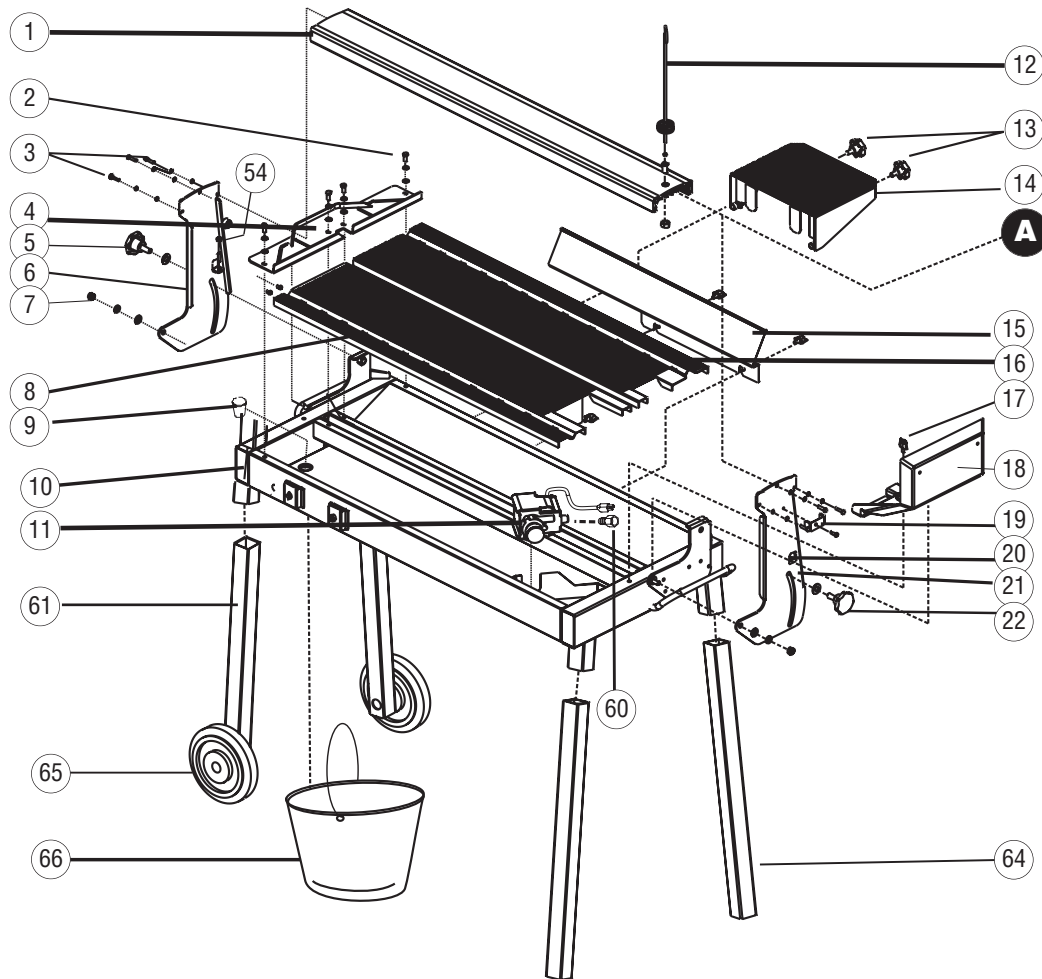


Part Name
Angle Guide
Part Number
V370060
Quantity
1

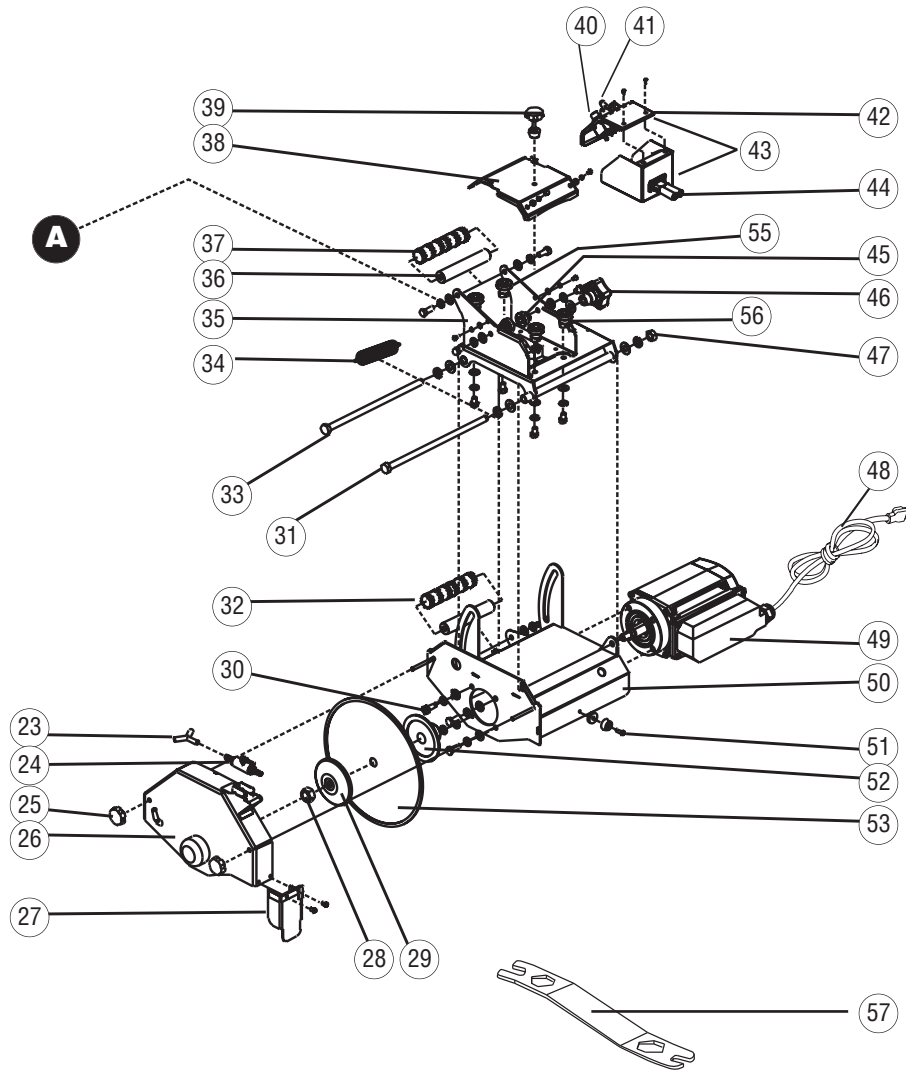


Part Name
Table Extension
Part Number
V370014
Quantity
1

xxiii. REPLACEMENT PARTS LIST



PART NAME	PART NUMBER	PART NAME	PART NUMBER
1 Guide Rail	V370001	15 Side Splash Guard	V370015
2 Ruler Guide Bolt (set of 4)/M6X16	V370002	16 Rear Rubber Cutting Table	V370016
3 Supporting Post Lock Bolt/ M5X20	V370003	17 Splash Guard Wing Nut/M6	V370017
4 Ruler Guide	V370004	18 Back Water Splash Guard	V370018
5 Angle Adjustment Lock Knob	V370005	19 Cable & Hose Position Bracket	V370019
6 Front Rubber Cutting Table	V370006	20 Angle Adjustment Bolt/M6X20	V370020
7 Center Lock Nut/ M10	V370007	21 Rear Support Post Plate	V370021
8 Front Rubber Mat Cutting Table	V370008	22 Angle Adjustment Knob	V370022
9 Drain Plug	V370009	54 Angle Adjustment Screw/ Nut M6	V370055
10 Main Metal Frame	V370010	60 Water Pump Adapter	V370061
11 Water Pump	V370011	61 Slide-In Legs with Wheels (set of 2)	V370062
12 Cable & Hose Spring Hanger	V370012	64 Slide-In Legs (set of 2)	V370065
13 Extension Table Lock Knob	V370013	65 Rubber Wheel	V370066
14 Side Extension Table	V370014	66 Bucket	V370067



PART NAME	PART NUMBER
23 Water Flow "Y" Adapter	V370023
24 Water Control Valve	V370024
25 Blade Guard Lock Knob	V370025
26 Blade Guard	V370026
27 Water Splash Guard	V370027
28 Blade Lock Nut/M12	V370028
29 Outer Flange	V370029
30 Motor Mounting Lock Bolt/M8X16	V370030
31 Motor Cutting Angle Screw/ Hex. Screw 250 M10	V370031
32 Handle Rubber Sleeve	V370032
33 Motor Cutting Angle Adjustment Screw/Hex.Screw 235 M10	V370033
34 Tension Spring	V370035
35 Cutting Head Carrage Bracket	V370036
36 Handle Bar	V370037
37 Handle Rubber Sleeve	V370038
38 Cutting Head Position Bracket	V370039
39 Motor Position Lock Knob	V370040

PART NAME	PART NUMBER
40 Circuit Breaker	V370041
41 Toggle Switch	V370042
42 Switch Housing Control Panel	V370043
43 Switch Housing Complete Set	V370044
44 Cable Protective Rubber Sleeve	V370045
45 Adjustment Guide Wheels (1)	V370046
46 Cutting Height Adjustment Lock Knob	V370047
47 Lock Nut/ M10	V370048
48 Power Cable/ 14AWG	V370049
49 1-1/2 HP Motor	V370050
50 Motor Mounting Bracket	V370051
51 Cutting Table Head Travel Bumper	V370052
52 Inner Flange	V370053
53 Diamond Blade	V370054
55 Adjustment Guide Wheels (set of 2)	V370056
56 Rolling Wheels (3)	V370057
57 Multiple Wrench	V370058

xxiv. TROUBLESHOOTING

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

PROBLEM	POSSIBLE CAUSE	SOLUTION
EXCESSIVE WEAR	<ul style="list-style-type: none"> - Wrong type of saw blade. - Shaft of motor causes wobbling. - Overheating. 	<ul style="list-style-type: none"> - Use harder saw blades. - Have bearings of the motor or the motor replaced. - Ensure optimum flow of cooling water.
	<ul style="list-style-type: none"> - Saw blade type is unsuitable for the material being cut. 	<ul style="list-style-type: none"> - Use appropriate type of saw blade.
	<ul style="list-style-type: none"> - Saw blade type is unsuitable for the machine performance. - Saw blade too hard. 	
	<ul style="list-style-type: none"> - Diamond segments are blunt. 	<ul style="list-style-type: none"> - Sharpen the diamond saw blade.
APPEARANCE OF CUT IS NOT OPTIMAL	<ul style="list-style-type: none"> - Poor tension in the blade material. 	<ul style="list-style-type: none"> - Return the saw blade to the manufacturer.
	<ul style="list-style-type: none"> - Too much load placed on the saw blade. 	<ul style="list-style-type: none"> - Use a suitable saw blade.
	<ul style="list-style-type: none"> - Diamond segments are blunt. 	<ul style="list-style-type: none"> - Sharpen the saw blade.
THE CENTER HOLE IN THE SAW BLADE HAS BECOME WIDER DUE TO WEAR	<ul style="list-style-type: none"> - The saw blade has slipped on the motor shaft when running. 	<ul style="list-style-type: none"> - The arbor of the saw blade must be fitted with an appropriate adaptor ring. - Check the receiving flange and have it replaced if necessary.
SAW BLADE SHOWS BLOOMING COLORS	<ul style="list-style-type: none"> - Saw blade overheating due to a lack of cooling water. 	<ul style="list-style-type: none"> - Ensure an optimum flow of cooling water.
	<ul style="list-style-type: none"> - Lateral friction when cutting. 	<ul style="list-style-type: none"> - The material feed is too high; proceed more slowly.
GRINDING MARKS ON THE SAW BLADE	<ul style="list-style-type: none"> - Material is not being fed parallel to the saw blade 	<ul style="list-style-type: none"> - Ensure that the direction of feed is absolutely parallel to the saw blade.
	<ul style="list-style-type: none"> - Poor tension in the blade material. 	<ul style="list-style-type: none"> - Adjust the roller table or have it adjusted.
	<ul style="list-style-type: none"> - Too much load on the saw blade. 	<ul style="list-style-type: none"> - Have the saw blade tensioned. - The material feed is too high, proceed more slowly.

xxv. 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.

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xxvi. 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.

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 opinion) 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) 928-3857 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, misused or improperly maintained
- alterations have been made to the tool
- the product is used in a manner or with a blade 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 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 coincidentally 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.

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