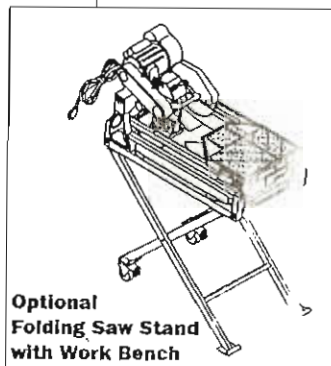
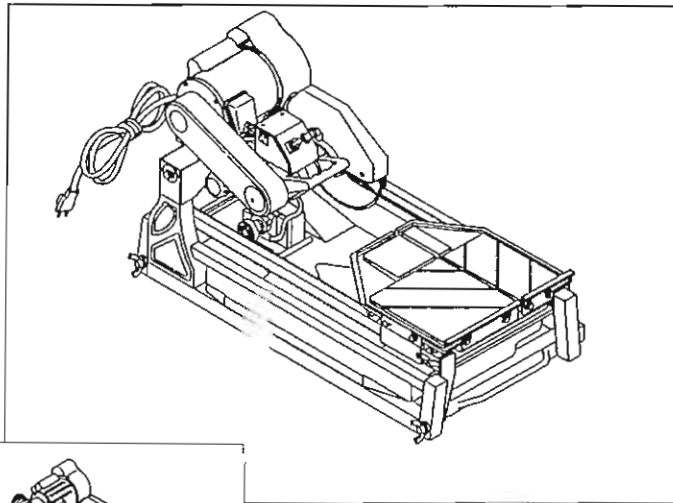


STOW®

TS1020



**Optional
Folding Saw Stand
with Work Bench**

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

Owner's Manual
• English • Español

INTRODUCTION

Versa pumps are versatile!

The pump you have purchased is a centrifugal pump, completely sealed in a durable epoxy compound. It may be used in a variety of applications from statuaries and waterfalls to draining a clogged kitchen sink. And, because the pump is totally sealed, it will not harm aquatic life in fresh water aquariums or fish ponds.

To increase the versatility of your pump, Beckett offers a number of useful accessories including decorative fountain spray-heads, filters, tubing, clamps and fittings. Complete fountain kits and automatic pond filter systems are also available. See your distributor for a complete listing of these and other quality Beckett products.

All Beckett pumps are carefully inspected and water tested to insure both safety and operating performance. However, failure to follow the instructions and warnings in this manual may result in pump damage and/or serious personal injury. Please read and save this manual for future reference.

PRECAUTIONS

All Versa pumps are designed to pump water. Using the pump in any other liquid or at higher than normal temperatures constitutes a special application and may void the warranty.

Versa models G-300, G-500 and G-600 must be operated totally submerged for proper cooling.

WARNING

Risk of electrical shock - This pump is supplied with a grounding conductor and a grounding type attachment plug. To reduce the risk of electrical shock, connect only to a properly grounded, grounding type receptacle.

- The National Electric Code requires a ground fault circuit interrupter (GFCI) to be installed in the branch circuit supplying fountain pumps and other pond equipment. See your electrical supply dealer for various GFCI devices.
- Do not use these pumps in flammable liquids.
- Do not remove the grounding pin from the electrical cord.
- Do not connect to any voltage other than that shown on pump.
- Do not let your pump run dry. Check the water level daily.

OPERATION

Place pump on a flat, smooth surface with the pump completely below the surface of the water. If the pump is to be run on a dirt or sand surface, raise it slightly to prevent debris from contacting the intake area.

Connect a suitable length of tubing to the discharge of the pump, and route the tubing as desired. Be careful not to raise the tubing beyond the maximum lift of the pump. (See PERFORMANCE chart)

Connect the pump to a properly grounded outlet.

PERFORMANCE

FEET ▶	GALLONS PER HOUR						MAX LIFT IN FEET
	1	2	4	6	8	10	
G80A	80	60	35				4.5
G100A	110	90	55				6
G150A	170	150	130	60			7
G300A	300	280	245	205	160	110	12
G500A	500	480	440	390	330	220	14
G600A	600	580	525	475	420	365	19

NOTE

If less flow is desired, do not restrict the intake of the pump. Instead, use a clamp such as Beckett restrictor clamp # 2530 or # 2535 on the vinyl outlet tubing.

MAINTENANCE

FIGS. 1 - 5

CAUTION: Before attempting any servicing of your pump, always disconnect from electrical outlet.

Beckett Versa pumps require very little maintenance. However, if the pump should fail to operate, please check the following:

1. Is the pump getting electrical power? Check the circuit breaker and try another outlet to be sure.
2. Are there any kinks or blockages in the discharge tubing?
3. Is the intake screen clogged? If so, remove and clean.
4. If the pump still will not run, remove the screws to access the impeller, (Figs. 1-5) and turn the impeller a few times by hand to be sure it is not broken or jammed.
5. Has the area around the impeller become encrusted with minerals or corrosion? If so, gently scrape clean, flush with water, and spray with WD-40 or other light, penetrating oil.
6. If your pump has been idle for an extended period, especially over winter months, it may be necessary to apply a drop of light oil to the pump shaft, and spin the impeller by hand until it turns freely.

LIMITED WARRANTY

All Beckett pumps are warranted to the user against defective material and workmanship under normal use for a period of 12 months from the date of purchase by the original purchaser, with the exception of UL-6500A AND XL-6500A (which feature a full 2 year limited warranty) All other Beckett products are warranted to the user against defective material and workmanship for 3 months from the date of purchase, with the exception of liner material (which is 20 years for 35mil PVC, 15 years for 20 mil PVC, 20 years for 40 mil EPDM and 15 years for pre-formed poly ponds from the date of purchase by the original owner) and filter material (warranted only against manufacturing defects for unused filter material for 12 months from the date of purchase by the original purchaser) Replacement liability in all events is limited to the replacing or repairing at Beckett's sole discretion of any part or parts which are defective in material or workmanship. Proof of purchase is required on all claims in the form of invoice copy, sales ticket, etc.

APPLICATION: Warranty covers only properly installed and maintained units. Warranty is limited to application at normal temperature (32°F to 98°F) pumping fluids with a specific gravity up to 1.1 and with a PH range of 5 to 9 (fresh water). Other liquid applications and extreme temperature uses must be approved in advance in writing by Beckett Corporation.

ADMINISTRATION: Warranty claims must be made by returning the defective Beckett part, freight prepaid, along with proof of purchase to: Beckett Corporation, Customer Service Dept., 5931 Campus Circle Drive, Irving, Texas 75063. All items returned will be inspected to determine cause of failure before warranty is approved.

INSTALLATION and/or REMOVAL CHARGES: Warranty does not cover any costs associated with the installation or removal of products subject to warranty claims.

DISPOSITION: Beckett Corporation will make a good-faith effort for prompt disposition regarding any claims. If a claim is approved, the user will be responsible for the cost of shipping the product to the carrier. If the product proves to be defective, if products were damaged in transit, please file a claim with the carrier.

DISCLAIMER: Any oral statements about the product made by the seller, the manufacturer, the representative, or other parties, do not constitute warranties, should not be relied upon by the user, and are not part of the contract for sale. Seller's and manufacturer's only obligation, and buyer's and user's only remedy, shall be for the manufacturer to either replace and/or repair at the manufacturer's sole discretion the Beckett product as described above. Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss), arising from any cause whatsoever, no matter whether based upon warranty, contract, negligence or other misuse, and the buyer and user agree that no other remedy shall be available to them. Before using, the buyer and user shall determine the suitability of the product for the intended use, and assumes all risk and liability whatsoever in connection therewith. The warranty and remedy described in this limited warranty is an EXCLUSIVE warranty and remedy and IN LIEU of any other warranty or remedy, expressed or implied, which other warranties and remedies are hereby expressly EXCLUDED, including but not limited to any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty gives buyer and user specific legal rights, and buyer and user 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.

FOR YOUR RECORDS:

Date of Purchase _____

Model Number _____

Name of Dealer _____

PLEASE KEEP RECEIPT IN CASE OF WARRANTY SERVICE

SAFETY PRECAUTIONS

- Never use the machine improperly or work in an unsafe manner.
- Always wear safety goggles, dust mask, and ear protection when operating the saw (to comply with ANSI-Z87.1).
- Always remain alert when the saw is in use. Inattention on the part of the operator may lead to serious injury.
- Before you start working, familiarize yourself with the work site and its surroundings. Take notice of circumstances which may impede working or traffic, observe soil conditions (good bearing or not), and take measures to ensure safety (i.e. the shielding of roadworks from public traffic).
- Take measures to ensure that the machine is in a safe and trouble-free condition prior to usage. Use the machine only when all protective devices (i.e. guards, noise absorbers, emergency-off devices) are operating in the intended locations.
- A visual check of the machine must be made at least once a shift to ensure that visible damages or faults are recognized. Any changes (including changes in the performance or behavior of the machine) must be reported to the supervisor. If necessary, stop the machine at once and secure it.
- In the case of a malfunction stop the machine immediately and secure it. Fix the problem as soon as possible.
- For starting and stopping the machine follow the operating instructions and observe indicator lights.
- Before switching the machine on make sure that the running machine will be of no danger to anyone.



GENERAL PURPOSE

1. Always clean the machine before maintenance/repair.
2. Before cleaning/maintenance/repair, the machine must be switched off with the main power key.
3. Clean the machine by following the steps below:
 - 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/1. 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 nse 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 "nse" 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!

WARNING



SAFETY PRECAUTIONS:

Saw blade should be inspected daily for excessive wear, core cracks, and arbor damage. Replace any blade that shows signs of damage.

- To mount blade, clean arbor and outer flanges, tightening nut securely.
- DO NOT place any portion of body in line with blade while it is rotating.
- Wet cutting blades must be used with water.
- To reduce risk of electrical shock, refer servicing to qualified professional.

HEALTH WARNING :

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:

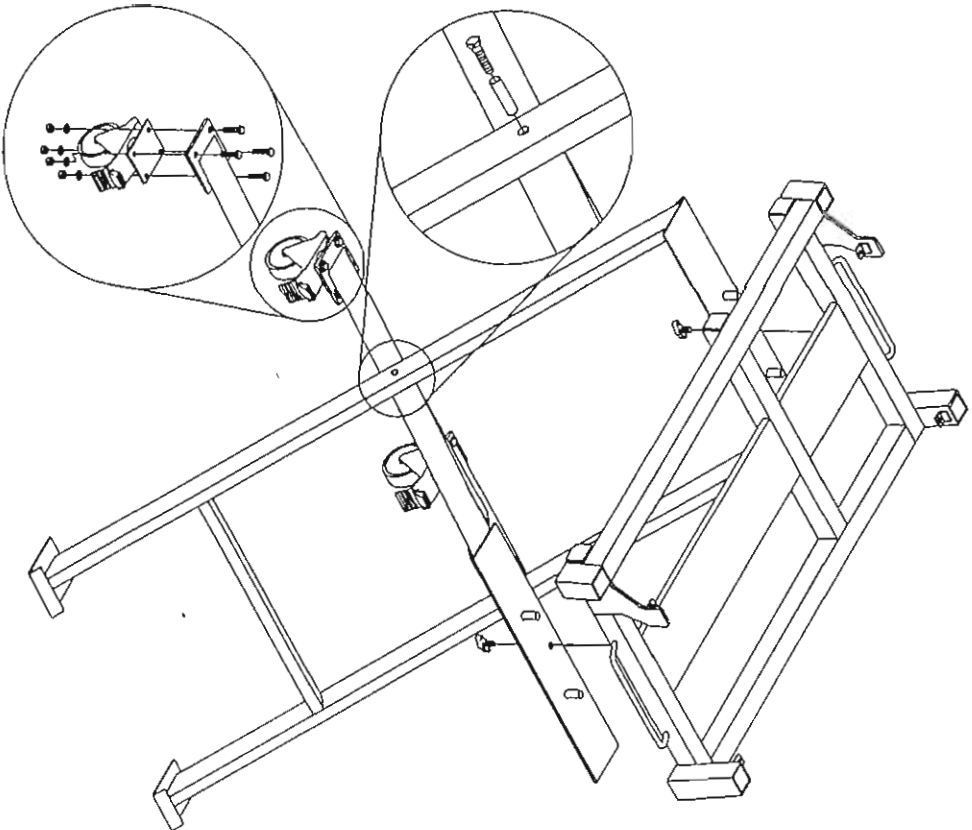
- Lead from lead based paints,
- Crystalline silica from bricks and cement and other masonry products,
- Arsenic and chromium from chemically-treated lumber.

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.

SAW STAND ASSEMBLY

Folding Stand

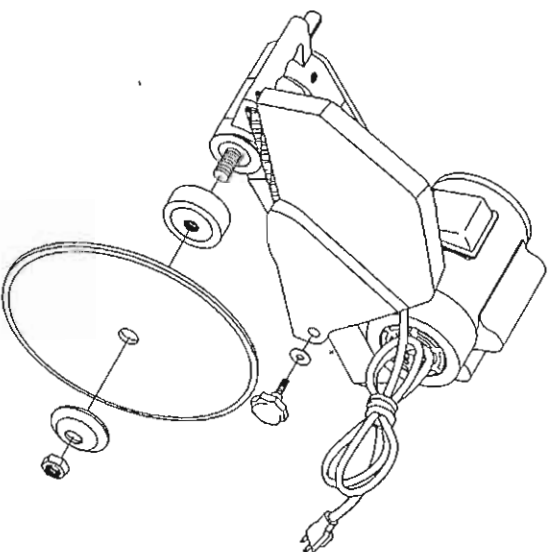
1. Attach each wheel to the frame with four (4) screws (1/4" x 1-3/4"), washers, and nuts as shown below.
2. Slide the smaller leg of the frame inside the larger leg of the frame. Next secure each side with a (3/8" x 1"-2") screw and bolt.
3. Make sure all screws and bolts are tightened as shown.
4. After the saw stand is completely assembled, place the saw on top of the saw stand and secure the frame by screwing two (2) knobs into the underside of the saw stand.



BLADE INSTALLATION

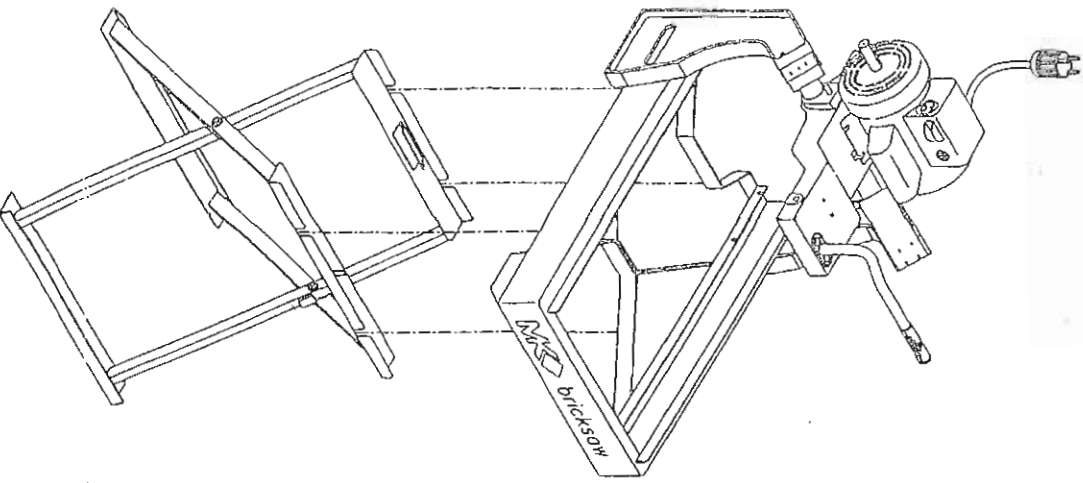
1. Carefully raise the cutting head to its highest position and secure it into place by tightening the cutting head adjustment knob on the rear support.
2. Raise the blade guard to the highest position and tighten the blade guard adjustment knob.
3. Remove the blade shaft nut and outer flange.
4. Place the blade onto the shaft making sure that the directional arrows are pointing in the direction of rotation.
5. After making sure that the blade is firmly placed against the inner flange, secure it into place with the outer flange and blade shaft nut. With one hand, depress the spring loaded blade shaft lock and tighten the blade shaft nut with your free hand. Make certain the nut is firmly tightened with the wrench provided, but do not over-tighten!
6. Lower the blade guard and tighten the adjustment knob.
7. Slightly loosen the rear support adjustment knob, lower the cutting head so that the blade is 1/4" below the surface of the cutting table, and then tighten the adjustment knob firmly to hold the cutting head in place.

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.

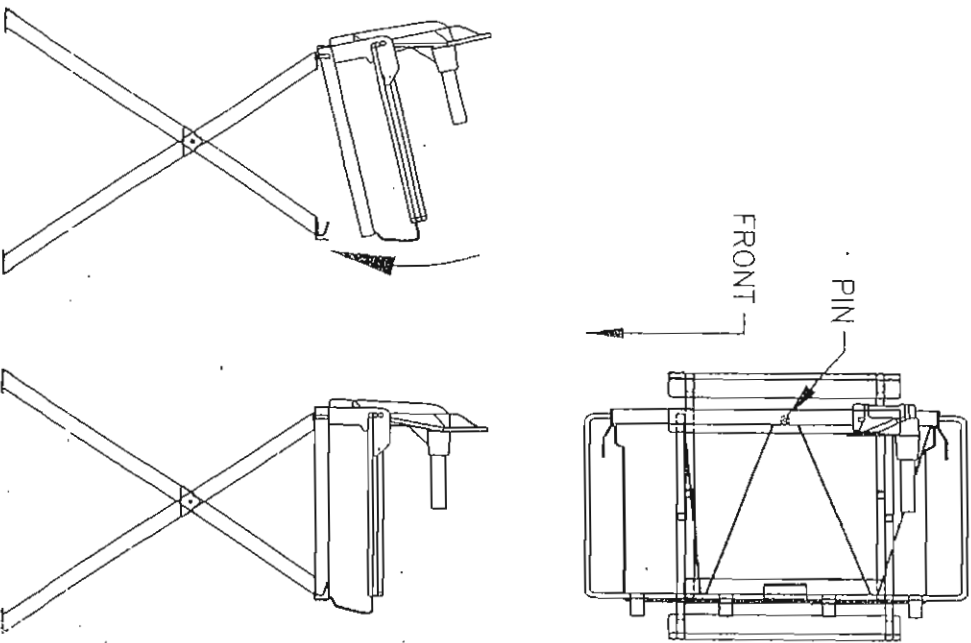


MK DIAMOND SAW STAND POSITIONING INSTRUCTIONS

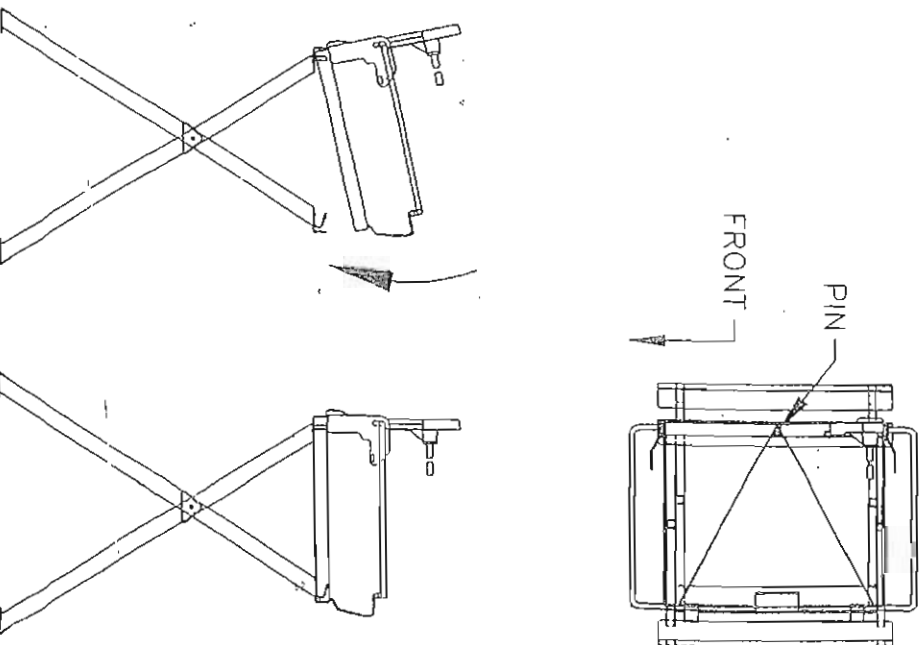
MK-2000 SERIES
BRICKSAW



MK-101
STANDARD

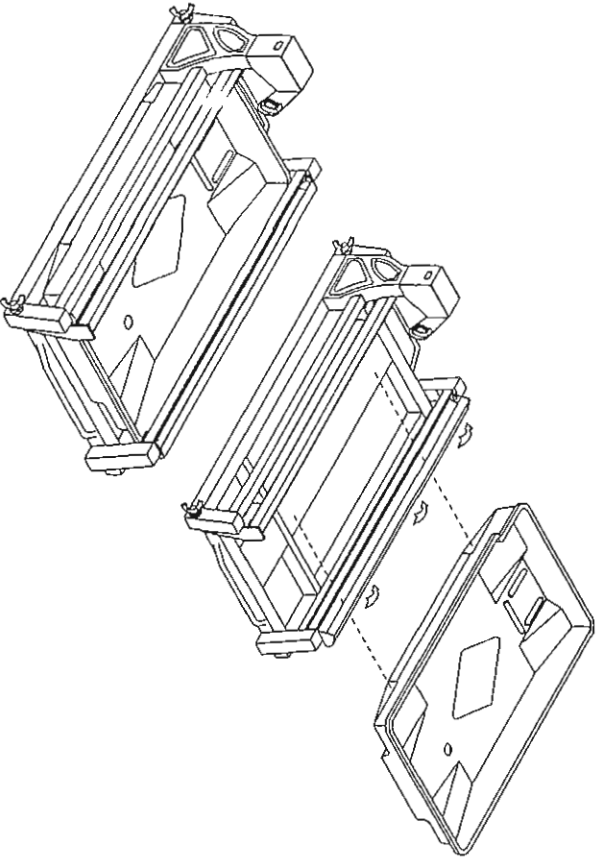


MK-770/660/880-16
TILE SAWS



TRAY INSTALLATION & REMOVAL

1. Remove drain plug and drain all water in the tray.
2. Lift water tray protection bracket and slide tray horizontally out from its supporting metal frame.
3. Thoroughly rinse water tray.
4. Slide water tray back into its supporting metal frame and fasten protection brackets.
5. Reinstall drain plug back into the drain hole before filling the tray with water.

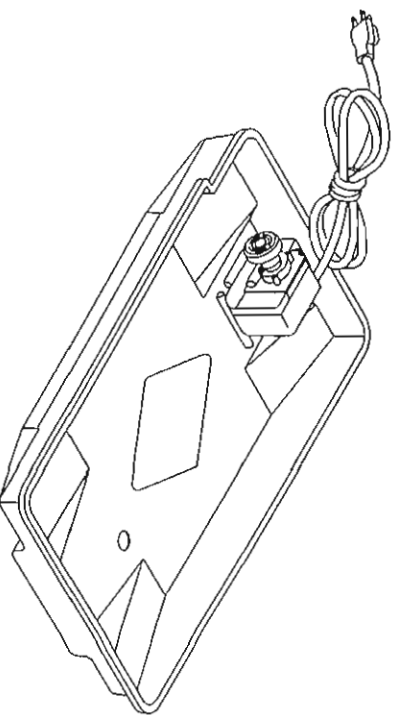


1. Quite el tapon y desague toda el agua de la bandeja.
2. Levante el soporte de proteccion de la bandeja del agua y deslize horizontalmente hacia afuera de su amazon del soporte de metal.
3. Enjuague completamente la bandeja del agua.
4. Deslize la bandeja nuevamente a su soporte del amazon de metal y asegure con los soportes de proteccion.
5. Vuelva a colocar el tapon en su lugar antes de llenar nuevamente la bandeja con agua.

REMOVER E INSTALAR EL DEPOSITO DEL AGUA

WATER PUMP INSTALLATION

1. Remove the water pump from the box and check that it is **not** damaged.
2. Place pump in the middle-rear of the water tray along its side so that the water outlet is positioned horizontally. Connect the water hose from 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.



INSTALACION DE LA BOMBA DE AGUA

1. Saque la bomba de agua de su empaque y revisela que no tenga ningun dano.
2. Coloque la bomba en la parte central de atras de la bandeja de agua, en su costado tanto que la salida de agua este en posicion horizontal. Conecte la manguera del agua de la cubierta de la cuchilla a la bomba y conecte el cable en conector de 3 puntas.
3. Llene la bandeja con agua asi para que la entrada de agua este completamente hundida.

WATER PUMP MAINTENANCE

When the machine has not been used for a long period of time, hard packed dirt may 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 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 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 assemble the immersion pump correctly and check whether it works properly.

WATER PUMP SAFETY PRECAUTIONS

- Never operate pump without water in the tray. Fill the water tray so that the water intake is fully immersed.
- Be sure to connect the plug to a properly grounded receptacle to reduce the risk of electric shock.
- Disconnect pump before handling pump or attempting to unclog or service the pump in any way.
- Be sure to support pump during installation to prevent pump failure or damage.

USING THE CUTTING TABLE

Features:

- Cutting table marked in inches and centimeters for precision cuts.
- Rubber-matted cutting table supports the material being cut in place, while resisting vibrations for smoother cuts with less chipping.
- 14" length cutting table provides more support during larger cutting jobs than the standard 11" cutting tables.

To use the 45°/90° rip guide, follow the steps below:

1. Set the rip guide by positioning it on the desired dimension 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°/90° rip cuts from both the left and right side. (Note the straight slits on the bottom of the rip guide.)
2. After the rip guide is positioned for the desired cut, place material flat against the rip guide and the measurement rail.
3. Simply line up the material being cut with the appropriate pre-marked lines on top of the cutting table.
4. Now you are ready to make your cut.

To make miter cuts, follow the steps below:

1. For miter cuts, place the lip of the miter block on the measurement rail, with the threaded knobs facing you.
2. Tighten the threaded knobs to secure the miter block in place.
3. Place material onto miter block and you are ready to cut.

DO'S & DON'TS FOR BLADES

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'TS

- 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'TS

- In addition to the following, always follow wet recommendations.
- Do not make long cuts with dry blades--allow them to air cool periodically.
- 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.

SAW MAINTENANCE

GENERAL RULES

1. Always clean the machine before maintenance/repair.
2. Before cleaning/maintenance/repair, the machine must be switched off with the main power key.
3. Clean the machine by following the steps below:
 - 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!

SAW MAINTENANCE

Maintenance Interval

What to do for maintenance and care

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 "FI" 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 not using the machine for a prolonged period of time

Clean and lubricate all movable parts.

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.

Ambient temperature below 32°F (operation in 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!

TROUBLESHOOTING

Problem

Possible Cause

Solution

Machine does not run when switched on

- Power cord not properly fixed/plugged in
- Power cord defective

- Check that the machine is properly connected to the power supply
- 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
- Incorrect specification for saw blade

- Exert less pressure when cutting
- 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
- Power network is insufficient

- Use a power cord/extension cable of the rated length, use a cable drum with cable fully extended
- 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 (RPM)

- Have the motor checked by a qualified electrician, and have it replaced if necessary

TROUBLESHOOTING

Problem	Possible Cause	Solution
Insufficient flow of cooling water or no cooling water at all	<ul style="list-style-type: none"> - The pump draws air - Filter clogged - Pump wheel of the immersion pump blocked by dirt 	<ul style="list-style-type: none"> - Fill the container with water - Clean the filter of the pump - Disassemble the immersion pump and clean it
Irregular run of the saw blade	<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
Saw blade wobbles when running	<ul style="list-style-type: none"> - Saw blade is damaged or bent 	<ul style="list-style-type: none"> - 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
Diamond segment becomes loose	<ul style="list-style-type: none"> - Flange of the saw blade is damaged - Shaft of the motor is bent 	<ul style="list-style-type: none"> - Replace the saw blade flange - Replace the electric motor
Excessive wear	<ul style="list-style-type: none"> - Overheating of the saw blade; cooling water not sufficient 	<ul style="list-style-type: none"> - Have the diamond segment soldered on the blade again; ensure optimum flow of cooling water
Cracks in or near the diamond segment.	<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 too hard - Fixed flange is worn out 	<ul style="list-style-type: none"> - Use a softer blade - Have the fixed flange replace
	<ul style="list-style-type: none"> - Motor shaft bearing 	<ul style="list-style-type: none"> - Replace the bearing of the motor shaft

TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw blade is blunt	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - Use appropriate type of saw blade
Appearance of cut is not optimal	<ul style="list-style-type: none"> - Poor tension in the blade material - Too much load placed on the saw blade - Diamond segments are blunt 	<ul style="list-style-type: none"> - Return the saw blade to the manufacturer - Use a suitable 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"> - Sharpen the saw blade
Saw blade shows blooming colors	<ul style="list-style-type: none"> - Saw blade overheating due to a lack of cooling water - Lateral friction when cutting 	<ul style="list-style-type: none"> - Ensure an optimum flow of cooling water
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"> - The material feed is too high; proceed more slowly
	<ul style="list-style-type: none"> - Poor tension in the blade material - Too much load on the saw blade 	<ul style="list-style-type: none"> - Ensure that the direction of feed is absolutely parallel to the saw blade - Adjust the roller table/have it adjusted - Have the saw blade tensioned - The material feed is too high, proceed more slowly