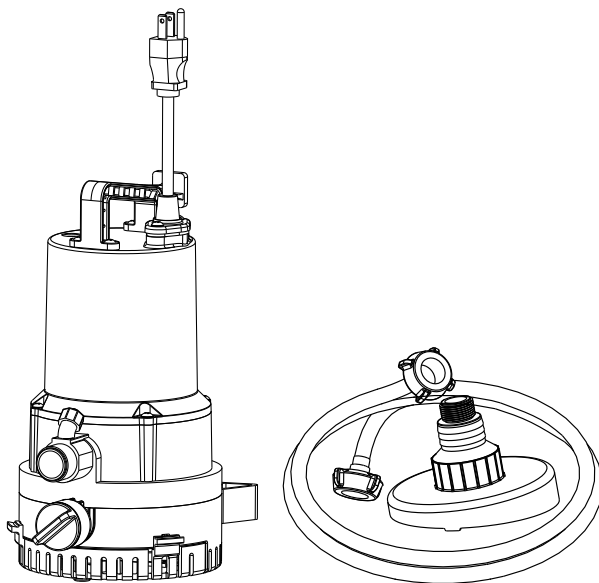


# MASTERCRAFT™/MC

2-IN-1

## SUBMERSIBLE UTILITY PUMP/ NON-SUBMERSIBLE TRANSFER PUMP



Model No. 062-3408-6

### **IMPORTANT:**

Please read this manual carefully before running this utility pump and save it for reference.

## **INSTRUCTION MANUAL**



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### NOTE:

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



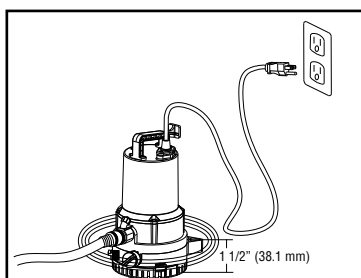
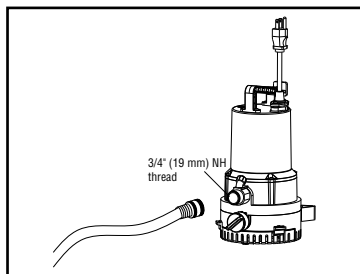
### SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions.  
Read all instructions and follow them with use of this product.

## Submersible Utility Pump Function

### 1 CONNECTING GARDEN HOSE

Attach a garden hose with a 3/4" (19 mm) garden hose thread (not included) to the pump outlet.

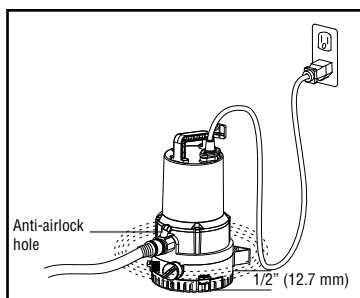


### 2 PLUGGING IN THE PUMP

Place the pump on a solid base in a flooded area or any place that you would like to remove water. Plug the pump into a 115 V GFCI power outlet.

### 3 OPERATING THE PUMP

Allow the pump to run and monitor its progress.  
Unplug the pump when it has removed water down to approximately 1/2" (12.7 mm).



#### NOTE:

- Be sure the 3/4" (19 mm) garden hose thread connector has a rubber gasket to minimize water leaks.
- The larger the inside diameter and the shorter the length of hose, the less pressure that is lost (or the larger the flow rate).
- Place upright on a solid base.
- The pump must be standing in at least 1 1/2" (38.1 mm) of water before you start it. The shaft seal is water lubricated and may be damaged if the pump runs dry.



#### CAUTION!

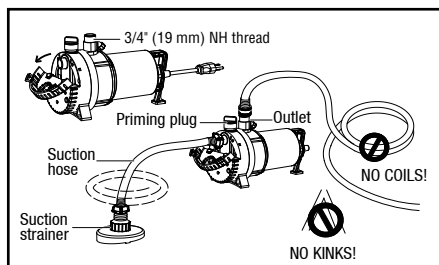
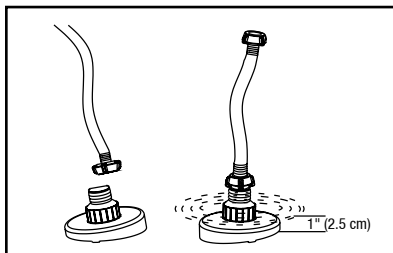
- Do not allow the plug to fall in water and do not stand in water while the pump is plugged in.
- Do not run the pump dry. Operating the pump without water will cause damage to the seals and will cause the pump to fail, thereby voiding the pump's warranty.
- The anti-airlock hole is for anti-airlock purposes only. Leakage of air or water is normal and necessary. DO NOT REMOVE OR PLUG THE ANTI-AIRLOCK HOLE!

## Non-submersible Transfer Pump Function

### 1 ATTACHING THE SUCTION HOSE TO STRAINER

Attach the clear suction hose to the suction strainer.

Then, place the strainer in at least 1" (2.5 cm) of water at the lowest point to be pumped.



### 2 ATTACHING HOSES

Open the bottom cover.

Thread the other end of the suction hose to the inlet of the pump.

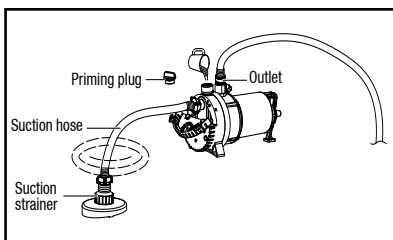
Thread a garden hose with a 3/4" (19 mm) NH fitting, a diameter of at least 5/8" (16 mm), and a maximum length of 50' (15.2 m), sold separately, onto the discharge outlet of the pump.

### 3 PRIMING WATER

Unscrew the priming plug.

Fill water through priming hole as the picture shows to overflowing.

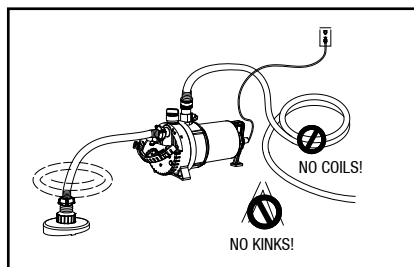
Tighten the priming plug.



### 4 OPERATING THE PUMP

To operate, plug the pump into a 115 V GFCI outlet.

When the water level has been reduced to approximately 1/16" (1.6 mm) you **MUST UNPLUG THE PUMP. DO NOT RUN DRY.**



### NOTE:

- Place the strainer in at least 1" (2.54 cm) of water at the lowest point to be pumped. Make sure the connection is airtight.
- An air leak can cause the pump to run dry.
- Always ensure the washer in the hose bib is not damaged. An airtight seal is necessary for this pump to operate.
- Do not coil or kink the hose.
- If water is not pumping in 30 seconds, unplug the power cord and check the connection on the two ends of the inlet hose to make sure there are no air leaks. Then, add water into the priming port again and repeat the process.

**TECHNICAL SPECIFICATIONS**

Liquid temperature range	32 to 95°F (0 to 35°C)
Impeller	Plastic
Discharge size	3/4" (19 mm) garden hose thread connection
Seal	Lip seal
Cord length	10' (3 m)
Single phase	Permanent split capacitor (PSC)
Motor protection	Auto-reset thermal overload protection in motor
Maximum flow (submersible)	1600 U.S. GPH (6,056 L/hr)
Maximum flow (non-submersible)	950 U.S. GPH (3596 L/hr)
Maximum head height	30' (9.1 m)

**MOTOR AND ELECTRICAL**

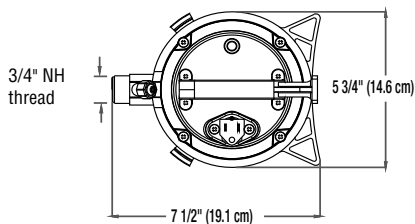
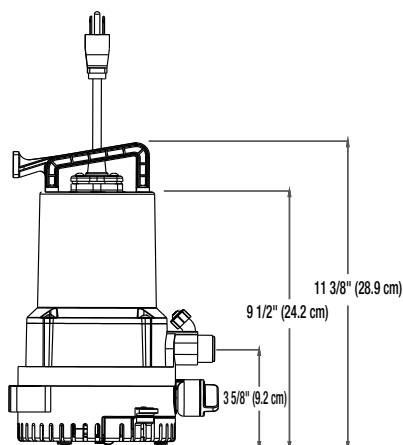
SKU number	062-3408-6
HP	1/4
Power	115 V AC
Hz	60
RPM	3450
Full load amps	2.5
Cord size	18 AWG
Cord type	SJTW

## **PERFORMANCE CHART**

	Lift in feet/ metres	0' (0 m)	5' (1.5 m)	10' (3 m)	15' (4.6 m)	20' (6 m)	25' (7.6 m)
Submersible Utility Pump Function	U.S. gallons/ litres per hour	1600 (6,056)	1500 (5,678)	1300 (4,921)	950 (3,596)	700 (2,649)	210 (794)
Non-submersible Transfer Pump Function	U.S. gallons/ litres per hour	950 (3,596)	840 (3,179)	730 (2,763)	600 (2,271)	400 (1,514)	170 (643)

\*Friction loss in piping not included in measurement.

## **DIMENSIONS**



## SAFETY GUIDELINES

This manual contains information that relates to protecting personal safety and preventing equipment problems. It is very important to read this manual carefully and understand it thoroughly before using this product.

- These precautions are intended for the personal safety of the operator and others working with the operator. Failure to follow these instructions may result in a permanent loss of vision, serious personal or even fatal injury, property damage and/or tool damage. Please take the time to read and understand them.
- Wear safety glasses with side shields when operating the pump and verify that others in the work area are also wearing safety glasses. Safety glasses must conform to both American National Standards Institute (ANSI Z87.1) and Canadian Standards Association (CSA Z94.3) standards requirements and must provide protection from flying particles from the front and the sides. Failure to comply may result in moderate injury.
- The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset itself once the motor cools down and an acceptable temperature has been reached. The pump may restart unexpectedly if it is plugged in.
- This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.
- Mastercraft Canada is not responsible for losses, injury, or death resulting from a failure to observe these safety precautions, or the misuse or abuse of pumps or equipment.

## UNPACKING

- Upon receiving the pump, it should be inspected for damage or shortages. If damage has occurred, file a claim immediately with the carrier that delivered the pump. If the manual is removed from the packaging, do not lose or misplace.



## DANGER!

- Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapours. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.
- ALWAYS disconnect the power to the pump before servicing.
- Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.
- Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface or in water before disconnecting the power.

## CAUTION!

- Do not lift the pump by the power cord.
- Know the pump and its applications, limitations, and potential hazards.
- Secure the pump to a solid base. This will aid in keeping the pump in a vertical orientation. This is critical in keeping the pump operating at maximum efficiency. It will also help prevent the pump from clogging resulting in premature failure.
- Periodically inspect the pump and system components to ensure the pump suction screen is free of mud, sand, and debris. Disconnect the pump from the power supply before inspecting.
- Follow all local electrical and safety codes, along with the National Electrical Code (NEC) and the Canadian Electrical Code (CEC). In addition, all Occupational Safety and Health Administration (OSHA) and Occupational Health and Safety (OH&S) guidelines must be followed.
- Ensure the electrical power source is adequate for the requirements of the pump.
- Before using the pump, check the hose for holes or excess wear, which could cause leaks, and ensure the hose is not kinked or making sharp angles. A straight hose allows the pump to move the greatest amount of water quickly. Also check that all hose connections are tight to minimize leaks.



### STORAGE

- **Short Term**—Pumps are manufactured for efficient performance following short, inoperative periods in storage. For best results, pumps can be retained in storage, as factory assembled, in a dry atmosphere with constant temperatures for up to six (6) months.
- **Long Term**—For storage of six (6) months, to twenty-four (24) months, the units should be stored in a temperature-controlled area: a roofed-over, walled enclosure that provides protection from the elements (rain, snow, wind, dust, etc.), and where the temperature can be maintained between 4 and 40°C (40 and 104°F). If extended high humidity is expected to be a problem, all exposed parts should be inspected before storage and all surfaces that have the paint scratched, damaged, or worn should be recoated with a water-based, air-dry enamel paint. All surfaces should then be sprayed with a rust-inhibiting oil.
- Pump should be stored in its original shipping container. On initial start up, rotate impeller by hand to ensure seal and impeller rotate freely.

### INSTALLATION

### DISCHARGE

- Discharge piping should be as short as possible. A check valve is recommended for each pump being used. The check valve is used to prevent backflow into the sump. Excessive backflow can cause flooding and/or damage to the pump.

### ELECTRICAL CONNECTIONS

- **Power Cable**—The cord assembly mounted to the pump must not be modified in any way. Any splice between the pump and the control panel must be made in accordance with all applicable electric codes. Do not use the power cable to lift pump.



### WARNING!

- Release all pressure and drain all water from the system before servicing any component.
- Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury, and/or property damage.
- Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. We recommend the pump be plugged directly into an outlet.
- This unit is designed only for use on 115 V (single phase), 60 Hz, and is equipped with an approved 3-conductor cord and 3-prong grounded plug. Do not remove the ground pin under any circumstances. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. Do not use this pump with a 2-prong wall outlet. Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the CE code and local codes and ordinances. All wiring should be performed by a qualified electrician.
- Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.
- Failure to comply with the instruction and designed operation of this unit may void the warranty. ATTEMPTING TO USE A DAMAGED PUMP can result in property damage, serious personal injury, and/or death.
- Ensure that the electrical circuit to the pump is protected by a 10 A fuse or circuit breaker.

**SAFETY GUIDELINES****WIRE SIZE**

- Consult a qualified electrician for proper wire size.

**PRE-OPERATION: CHECK VOLTAGE AND PHASE**

- Before operating pump, check to make sure that the voltage and phase information stamped on the pump's identification plate matches the available power.

**IDENTIFICATION PLATE**

- Note the numbers on the pump's identification plate and record at the end of the manual for future reference.

**INSULATION TEST**

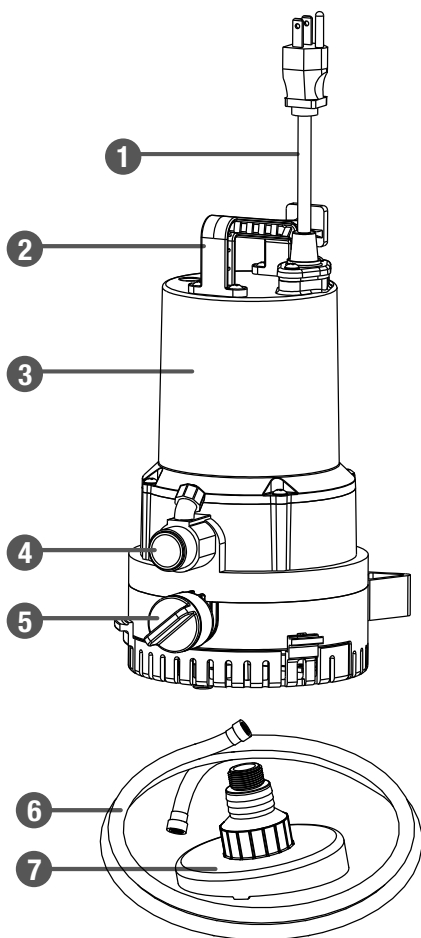
- Before the pump is put into service, an insulation (megger) test should be performed on it. The ohm values as well as the volts and amps should be recorded.

**CAUTION!**

- Risk of electric shock. Do not remove cord and/or strain relief. Do not connect conduit to pump.

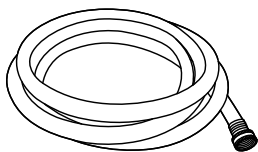
## PARTS LIST

No.	Description	Qty.	No.	Description	Qty.
1	Power cord	1	5	Priming plug	1
2	Carry handle	1	6	Suction hose	1
3	Motor housing	1	7	Suction strainer	1
4	Pump outlet	1			



**APPLICATION**

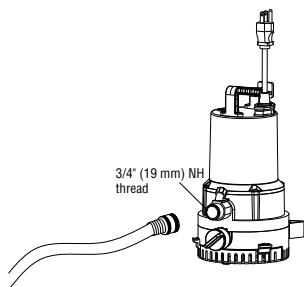
- This pump can be used as a submersible utility pump. It is suitable for draining or removing water from the following: pits, sinks, window wells, basements, swimming pool covers, boats, low spot in yards, or other flooded areas.
- This pump can be also used as a non-submersible transfer pump. It is suitable for draining or removing water from the following: flooded area, clogged sinks, water beds, water basins, boats, stock tanks, etc.
- This pump has not been tested or approved for use in swimming pools or in salt-water marine areas. This pump is not designed to function as a permanently installed sump pump. It is also not engineered to be run continuously as a “fountain” or “waterfall” pump.
- Do not use where water recirculates.
- Not designed for use as a swimming pool drainer.

**MATERIALS REQUIRED (NOT INCLUDED)**

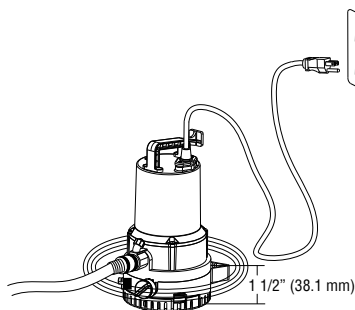
Garden Hose

### SUBMERSIBLE UTILITY PUMP INSTALLATION

- Attach a garden hose with a 3/4" (19 mm) garden hose thread (not included) to the pump outlet.



- Place the pump on a solid base in flooded area or any place that you would like to remove water. Plug the pump into a 115 V GFCI power outlet.



#### NOTE:

- The larger the inside diameter and the shorter the length of hose, the less pressure that is lost (or the larger the flow rate).
- Be sure the 3/4" (19 mm) garden hose thread connector has a rubber gasket to minimize water leaks.
- Place upright on a solid base.
- The pump must be standing in at least 1 1/2" (38.1 mm) of water before you start it. The shaft seal is water lubricated and may be damaged if the pump runs dry.



#### CAUTION!

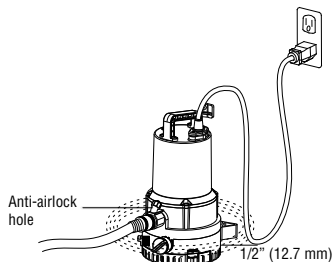
- Always use the handle to lift the pump. Never use the power cord to lift the pump. To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use.

#### WARNING

- Always disconnect power source before attempting to install, service, or maintain the pump. Never handle a pump with wet hands or when standing on wet or damp surface or in water. Fatal electrical shock could occur.
- Do not allow the plug to fall in water and do not stand in water while the pump is plugged in.

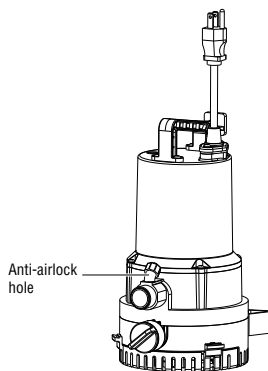
## OPERATION

- Allow the pump to run and monitor its progress.
- Unplug the pump when it has removed water down to approximately 1/2" (12.7 mm).
- Remove the pump and hose from the location when finished pumping. The hose still has water that can drain back through the pump. Remove remaining water with a squeegee, mop, sponge, towel, wet/dry vac, etc.



## AIRLOCK

This pump is a centrifugal utility pump, designed to efficiently remove water. However, it cannot move air. If air is trapped inside the pump (a condition called "airlock"), the pump cannot pump water out even though the pump is completely submerged. This pump has an anti-airlock hole. Air flows out through the anti-airlock hole, eliminating the airlock so that the pump can operate properly. If debris blocks the anti-airlock hole, unplug the pump, clean out the anti-airlock hole, and restart the pump. Alternately, drain the water out of the garden hose, keep the end of the hose out of the water, and plug in the power cord, restarting the pump.



### NOTE:

- After starting, the pump will lower the water level to 1/2" (12.7 mm) before losing suction. It will not pick up water less than 1/2" (12.7 mm) deep when running and will not operate successfully if started in only 1/2" (12.7 mm) of water.

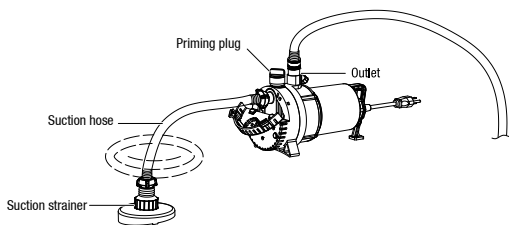


### CAUTION!

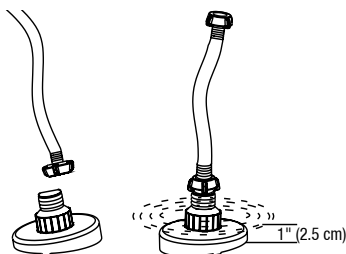
- The anti-airlock hole is for anti-airlock purposes only. Leakage of air or water is normal and necessary. **DO NOT REMOVE OR PLUG THE ANTI-AIRLOCK HOLE!**
- Do not run the pump dry. Operating the pump without water will cause damage to the seals and will cause the pump to fail, thereby voiding the pump's warranty.

### NON-SUBMERSIBLE TRANSFER PUMP INSTALLATION

The following picture shows a typical installation. The suction lift of this unit can get up to 8' (2.4 m). Be sure to use the included, specially designed built-in check valve suction strainer.



- Attach the clear suction hose to the suction strainer.
- Then, place the strainer in at least 1" (2.5 cm) of water at the lowest point to be pumped.



#### NOTE:

- Make sure the connection is airtight. An air leak can cause the pump to run dry.
- Always ensure the washer in the hose bib is not damaged. An airtight seal is necessary for this pump to operate.



#### CAUTION!

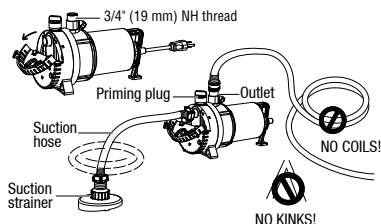
- Always use the handle to lift the pump. Never use the power cord to lift the pump. To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use.

#### WARNING!

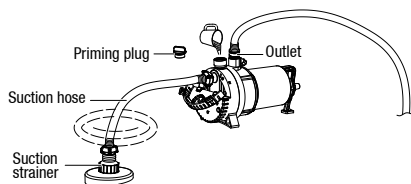
- Always disconnect power source before attempting to install, service, or maintain the pump. Never handle a pump with wet hands or when standing on wet or damp surface or in water. Fatal electrical shock could occur.
- Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface or in water while the pump is plugged in.

## NON-SUBMERSIBLE TRANSFER PUMP INSTALLATION

- Open the bottom cover.
- Thread the other end of the suction hose to the inlet of the pump.
- Thread a garden hose with a 3/4" (19 mm) NH fitting, a diameter of at least 5/8" (16 mm), and a maximum length of 50' (15.2 m), sold separately, onto the discharge outlet of the pump.

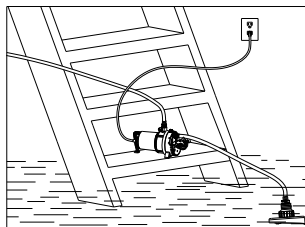


- Unscrew the priming plug.
- Fill water through priming hole as the picture shows to overflowing.
- Tighten the priming plug.



## OPERATION

- To operate, plug the pump into a 115 V GFCI outlet.
- When the water level has been reduced to approximately 1/16" (1.6 mm) you **MUST UNPLUG THE PUMP. DO NOT RUN DRY.**



### NOTE:

- Always ensure the washer in the hose bib is not damaged. An airtight seal is necessary for this pump to operate.
- Make sure the end of the outlet hose is not under water. If the outlet is under water, the pump may not work.
- Do not coil or kink the hose.
- If water is not pumping in 30 seconds, unplug the power cord and check the connection on the two ends of the inlet hose to make sure there are no air leaks. Then, add water into the priming port again and repeat the process.



### CARE AND CLEANING

#### DO

When the power is disconnected, inspect the pump suction screen and remove all debris, then plug the pump back into the grounded (GFCI) outlet.

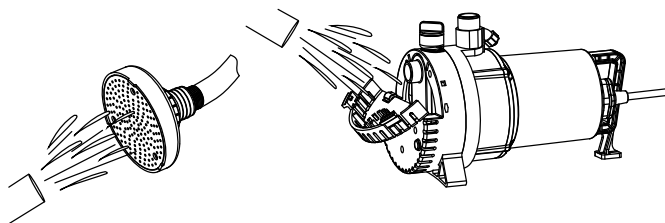
#### DO NOT

Do not disassemble the motor housing. This motor has NO repairable internal parts, and disassembly may cause leakage or dangerous electrical wiring issues.

Do not lift up the pump by the power cord.

### TO CLEAN A PUMP CLOGGED WITH DEBRIS:

- Unplug the pump from electrical power.
- Remove debris from the screen.



#### CAUTION!

- Always use the handle to lift the pump. Never use the power cord to lift the pump. To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use.

SUBMERSIBLE UTILITY PUMP FUNCTION

Problem	Possible Causes	Corrective Action
Pump does not start or run.	<ol style="list-style-type: none"><li>1. The fuse is blown.</li><li>2. The breaker is tripped.</li><li>3. The plug is disconnected.</li><li>4. The plug is corroded.</li><li>5. The motor failed.</li><li>6. Ice or blockage has locked the impeller.</li></ol>	<ol style="list-style-type: none"><li>1. Replace the fuse.</li><li>2. Reset the breaker.</li><li>3. Secure the plug.</li><li>4. Clean the plug prongs.</li><li>5. Replace the pump.</li><li>6. Remove the blockage.</li></ol>
Pump cannot pump water out.	<ol style="list-style-type: none"><li>1. The screen is blocked.</li><li>2. The hose is kinked, bent sharply, or coiled.</li><li>3. There is an airlock.</li><li>4. The impeller is loose on the shaft.</li><li>5. The impeller is broken.</li></ol>	<ol style="list-style-type: none"><li>1. Clean the screen.</li><li>2. Straighten the hose.</li><li>3. Clean the anti-airlock hole.</li><li>4. Reassemble the impeller.</li><li>5. Replace the impeller.</li></ol>

NON-SUBMERSIBLE TRANSFER PUMP FUNCTION

Problem	Possible Causes	Corrective Action
The pump does not start or run.	<ol style="list-style-type: none"><li>1. The fuse is blown.</li><li>2. The breaker is tripped.</li><li>3. The plug is disconnected.</li><li>4. The plug is corroded.</li><li>5. The motor failed.</li></ol>	<ol style="list-style-type: none"><li>1. Replace the fuse.</li><li>2. Reset the breaker.</li><li>3. Secure the plug.</li><li>4. Clean the plug prongs.</li><li>5. Replace the pump.</li></ol>
The pump does not prime.	<ol style="list-style-type: none"><li>1. The suction line has an air leak.</li><li>2. The impeller is clogged.</li><li>3. Did not fill water into inlet hose.</li><li>4. Did not attach the suction strainer with built-in check valve to inlet hose.</li></ol>	<ol style="list-style-type: none"><li>1. Repair suction line by tightening hose connection or replacing hose washer if necessary.</li><li>2. Remove the blockage.</li><li>3. Add water to the pump and inlet hose.</li><li>4. Attach the specially designed factory-supplied suction strainer to hose end.</li></ol>
The flow rate is too low.	<ol style="list-style-type: none"><li>1. The hose is kinked or coiled.</li><li>2. The strainer or hose is blocked.</li><li>3. The discharge hose is too long.</li><li>4. The impeller is broken.</li></ol>	<ol style="list-style-type: none"><li>1. Straighten the hose.</li><li>2. Clean the strainer or hose.</li><li>3. Shorten the hose to 50' (15.2 m ) max.</li><li>4. Replace the impeller.</li></ol>

This Mastercraft product is guaranteed for a period of **one (1) year** from the date of original retail purchase, against defects in materials and workmanship.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

### These warranties are subject to the following conditions and limitations :

- a. a bill of sale verifying the purchase and purchase date must be provided;
- b. this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c. this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product which are expected to become inoperative or unusable after a reasonable period of use;
- d. this warranty will not apply to routine maintenance and consumable items such as, but not limited to, tune-ups or adjustments;
- e. this warranty will not apply where damage is caused by repairs made or attempted by others (i.e., persons not authorized by the manufacturer);
- f. this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g. this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h. this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and
- i. this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

### Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

### Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

Made in China

Imported by  
Mastercraft Canada Toronto, Canada M4S 2B8

