Self-Priming Transfer Pump

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

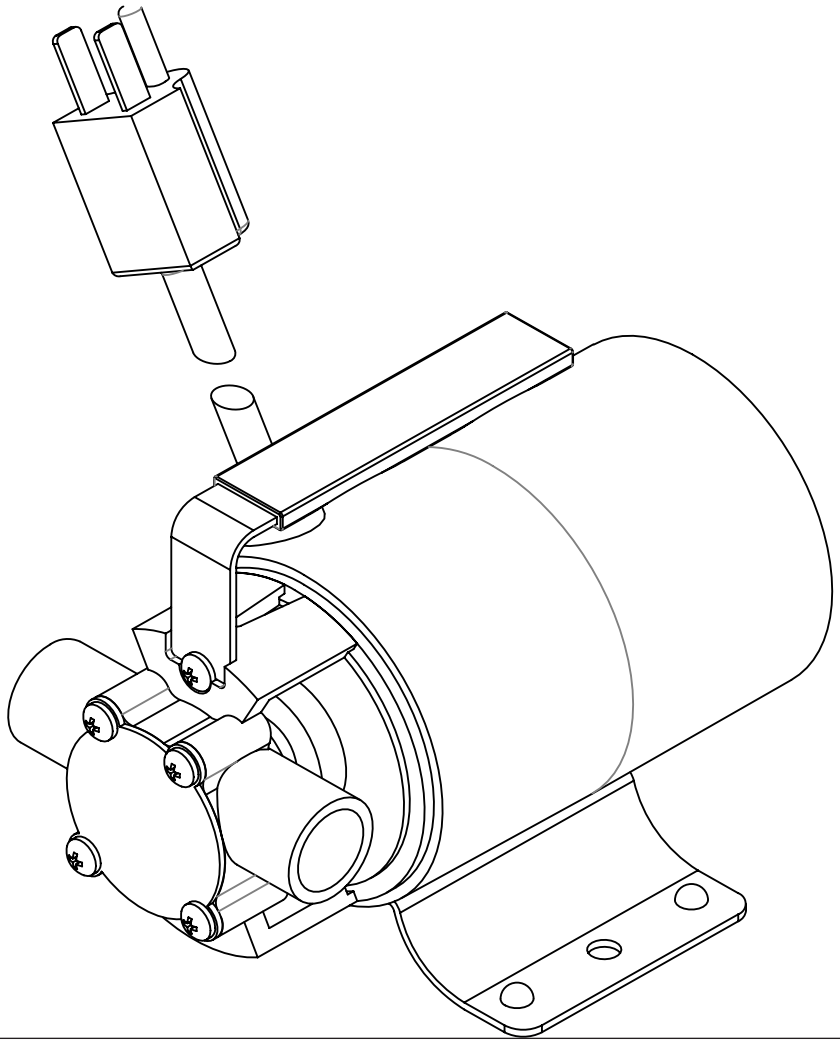
Operating Instructions and Parts Manual — PC2

SPECIFICATIONS	
POWER SUPPLY REQUIREMENTS	120 V, 60 Hz
MOTOR	Brush Type
POWER	120 V
CIRCUIT REQUIREMENT	15 A (minimum)
LIQUID TEMPERATURE RANGE	40° F- 120° F

CONSTRUCTION	
MOTOR HOUSE	Coated Steel
IMPELLER	NBR
VOLUTE	Plated Aluminum
PUMP SUCTION	3/4 in. Plated Aluminum Hose Fittings
PUMP DISCHARGE	3/4 in. Plated Aluminum Hose Fittings

PERFORMANCE

Model	Volt	Discharge Head	0 ft.	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
PC2	120	Gal/hr	400	390	350	320	290	250



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DESCRIPTION

This self-priming transfer pump is designed to easily transfer clear water from one point to another in a temporary application. This Transfer Pump is convenient when normal power is not readily available. Typical applications include removing water from pool covers, clogged drains, stock tanks, water basins, boats, cisterns, etc. Typical applications include removing water from waterbeds, clogged sinks, basements, etc. This model is non-submersible.

NOTE: This pump is not for drinking water, is not intended for permanent installation or long, extended periods of continuous operation.

UNPACKING

Inspect this unit before it is used. Occasionally, products are damaged during shipment. If the pump or components are damaged, return the unit to the place of purchase for replacement, or call Customer Support (800-237-0987).

SAFETY SIGNAL WORDS

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

⚠ DANGER ***Danger indicates an imminently hazardous situation which, if NOT avoided, WILL result in death or serious injury.***

⚠ DANGER ***La mention Danger indique une situation dangereuse imminente qui, si elle n'est pas évitée, ENTRAÎNE la mort ou des blessures graves.***

⚠ WARNING ***Warning indicates a potentially hazardous situation which, if NOT avoided, COULD result in death or serious injury.***

⚠ AVERTISSEMENT ***La mention avertissement indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, risque d'entraîner des lésions corporelles graves ou même la mort.***

⚠ CAUTION ***Caution indicates a potentially hazardous situation which, if NOT avoided, MAY result in minor or moderate injury.***

⚠ *MISE EN GARDE* ***La mention mise en garde indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, pourrait entraîner des blessures mineures ou modérées.***

NOTICE ***Notice indicates important information, that if NOT followed, MAY cause damage to equipment.***

GENERAL SAFETY INFORMATION

⚠ WARNING

This product can expose you to chemicals, including DEHP, which is known to the State of California to cause cancer, birth defects and reproductive harm. For more information, go to www.P65Warnings.ca.gov.

⚠ *AVERTISSEMENT*

Ce produit peutvous exposer à des produits chimiques, notamment du DOP, reconnus par l'État de Californie comme étant cancérigènes et à l'origine d'anomalies congénitales et de problèmes de l'appareil reproductif. Pour plus de renseignements, visiter le site www.P65Warnings.ca.gov.

⚠ DANGER ***Do not submerge motor or allow motor to be exposed to water. Personal injury and/or death could result. Keep pump and power cords away from liquids.***

⚠ DANGER ***Ne pas submerger le moteur ni laisser le moteur exposé à l'eau. Des blessures corporelles et/ou la mort pourraient en découler. Tenir la pompe et les cordons d'alimentation loin des liquides.***

⚠ DANGER ***Do not pump gasoline or other explosive liquids. Do not operate pump where flammable or explosive fumes or gases are present as a fire or explosion could result. Pump should only be used to pump clear water. Do not run pump dry. This will void warranty.***

⚠ DANGER ***Ne pas pomper de l'essence ou d'autres liquides explosifs. Ne pas faire fonctionner la pompe en présence de vapeurs ou gaz inflammables ou explosifs car cela risquerait de provoquer un incendie ou une explosion. La pompe doit être utilisée uniquement pour pomper de l'eau fraîche. Ne pas laisser la pompe fonctionner à sec, cela annulera la garantie.***

REMINDER: Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safekeeping.

GENERAL SAFETY INFORMATION CONTINUED

1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Protect electrical cord from sharp objects, hot surfaces, oil and chemicals. Avoid kinking the cord. Do not use if cord is damaged.

⚠ CAUTION ***This pump has been evaluated for use with clear water only.***

⚠ *MISE EN GARDE* ***Cette pompe a été évaluée pour être utilisée seulement avec de l'eau fraîche.***

INSTALLATION

This model includes a six foot long suction hose, a water suction attachment, and a replacement parts kit which includes: impeller, gasket, shaft seal and garden hose washer, and two motor brushes. A vegetable oil product for impeller lubrication is needed.

⚠ DANGER ***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.***

⚠ DANGER ***Toujours débrancher le cordon d'alimentation avant d'essayer d'installer, de réparer ou de faire l'entretien de la pompe. Ne pas manipuler de pompe avec les mains humides ou debout sur une surface humide ou mouillée, ou dans l'eau. Ceci pourrait occasionner un choc électrique mortel.***

1. A ground fault circuit interrupter (GFCI) is required.
2. Pump operates on 120 V only. Voltage and current of power supply must match the requirements of the pump.

⚠ DANGER ***Risk of fatal electrical shock. Cutting the cord will void the warranty and make the pump inoperable.***

⚠ DANGER ***Risque de choc électrique mortel. Couper le cordon annulera la garantie et rendra la pompe inutilisable.***

NOTICE ***Notice indicates important information, that if NOT followed, MAY cause damage to equipment.***

3. A regular garden hose may be used as a discharge line.
4. The inlet or suction hose should not be longer than 15 feet; and the vertical distance between the pump and the water level should not be any higher than 10 feet. The maximum discharge height is 30 ft.
5. At times, an overload due to overheating, low voltage, jammed impeller, etc. may shut the pump off. Unplug or turn off the pump and wait at least ten minutes. The pump will cool and automatically reset.

⚠ WARNING ***Motor should never be operated for more than 2 hours continuously. Critical heating can occur and might severely damage the pump and void warranty.***

⚠ AVERTISSEMENT ***Le moteur ne doit jamais être utilisé pendant plus de 2 heures en continu. Un échauffement critique peut se produire et endommager gravement la pompe et annuler la garantie.***

OPERATION

NOTE: Add 1 tablespoon of vegetable oil to both inlet and outlet to prime. Attach included 6 foot suction hose to inlet of pump. Attach garden hose to outlet of pump. There must be a gasket in place to insure that these connections are airtight, otherwise the pump will not prime.

1. Connect water suction attachment to the open end of inlet hose and place below water surface. (Water suction attachment is optional.)The water suction attachment is designed to fit the male end of a garden hose. Place the water suction attachment as near as possible to the middle of the water that is to be pumped.
2. Examine the inlet and outlet hoses to insure there are no blockages, kinks or bends.

MAINTENANCE

⚠ DANGER ***Always disconnect power source before attempting to install, service, or maintain the pump.***

⚠ DANGER ***Toujours débrancher le cordon d'alimentation avant d'essayer d'installer, de réparer ou de faire l'entretien de la pompe.***

MAINTENANCE

MPELLER REPLACEMENT

NOTE: These parts are designed to handle most clear, nonflammable liquids. When impeller vanes become worn from use, or damaged due to pumping abrasive liquids or trash, pump performance will be reduced or prevented altogether and will void warranty.

1. Remove the four cover plate screws holding motor housing and pump housing together. Cover plate is now free and can be removed.
2. Inspect gasket and impeller for wear and damage. If there is any evidence of wear or damage, replace the part(s).
3. Lubricate new impeller with vegetable oil and reinstall by aligning flat on impeller hub with flat on motor shaft.
4. Reassemble gasket, cover plate, and cover plate screws.

SHAFT SEAL REPLACEMENT

Motor shafts are sealed with factory pre-lubricated lip-type seals which are good for the life of the pump. If the seal leaks, it is usually because the pump has handled abrasive liquids. If the motor shaft is scored (deep grooves), the complete pump must be replaced.

1. Remove and inspect impeller parts as specified in the impeller replacement instructions. Replace worn parts.
2. Remove two pump body mounting screws and slide pump body from motor. Pry out seal retaining ring and push worn shaft seal from inside of pump body.
3. Lubricate new seal with vegetable oil, push it into pump body with lip facing away from motor, and push in seal retaining ring.
4. Reassemble pump body onto motor with mounting screws. Follow steps 3 and 4 in Impeller Replacement.

MOTOR BRUSH REPLACEMENT

NOTICE ***Brushes for the PC2 pump should be inspected after 75 hours of operation and replace if worn. They must be replaced every 100 hours of operation. Service one brush at a time. Failure to do so will void warranty.***

1. Disconnect pump from power supply.
2. Remove brush caps with screwdriver.
3. Remove old brush assembly.
4. Insert new brush assembly.
5. Replace brush caps

TROUBLESHOOTING CHART

Symptom	Possible Cause(s)	Corrective Action
Pump will not start or run	1. Blown fuse	1. If blown, replace with proper sized fuse or reset breaker
	2. Low supply voltage	2. Voltage of power supply must match the voltage of the pump
	3. Worn brushes	3. Replace brushes
	4. Impeller blocked	4. Remove blockage
	5. Motor has overheated	5. Disconnect from power supply and allow to cool (Minimum 10 minutes)
Pump will not prime or retain prime after operating	1. Air leak in suction line	1. Repair suction line by tightening inlet connection or replace
	2. Impeller blocked	2. Remove blockage
	3. Worn seal	3. Replace seal
	4. Suction lift too high	4. Lower pump
	5. Hose kinked or looped	5. Straighten hose
	6. Fittings not tight	6. Tighten fittings
	7. Suction hose out of water	7. Submerge suction hose end
	8. Clogged inlet	8. Clean inlet
Flow rate is too low	1. Inlet hose plugged or kinked	1. Clean or replace
	2. Low supply voltage	2. Voltage of power supply must match the voltage of the pump
Shaft seal leaks	1. Worn seal	1. Replace seal
	2. Shaft grooved	2. Replace pump
	3. Pump head loose on motor	3. Insure proper assembly and no obstruction, tighten bolts

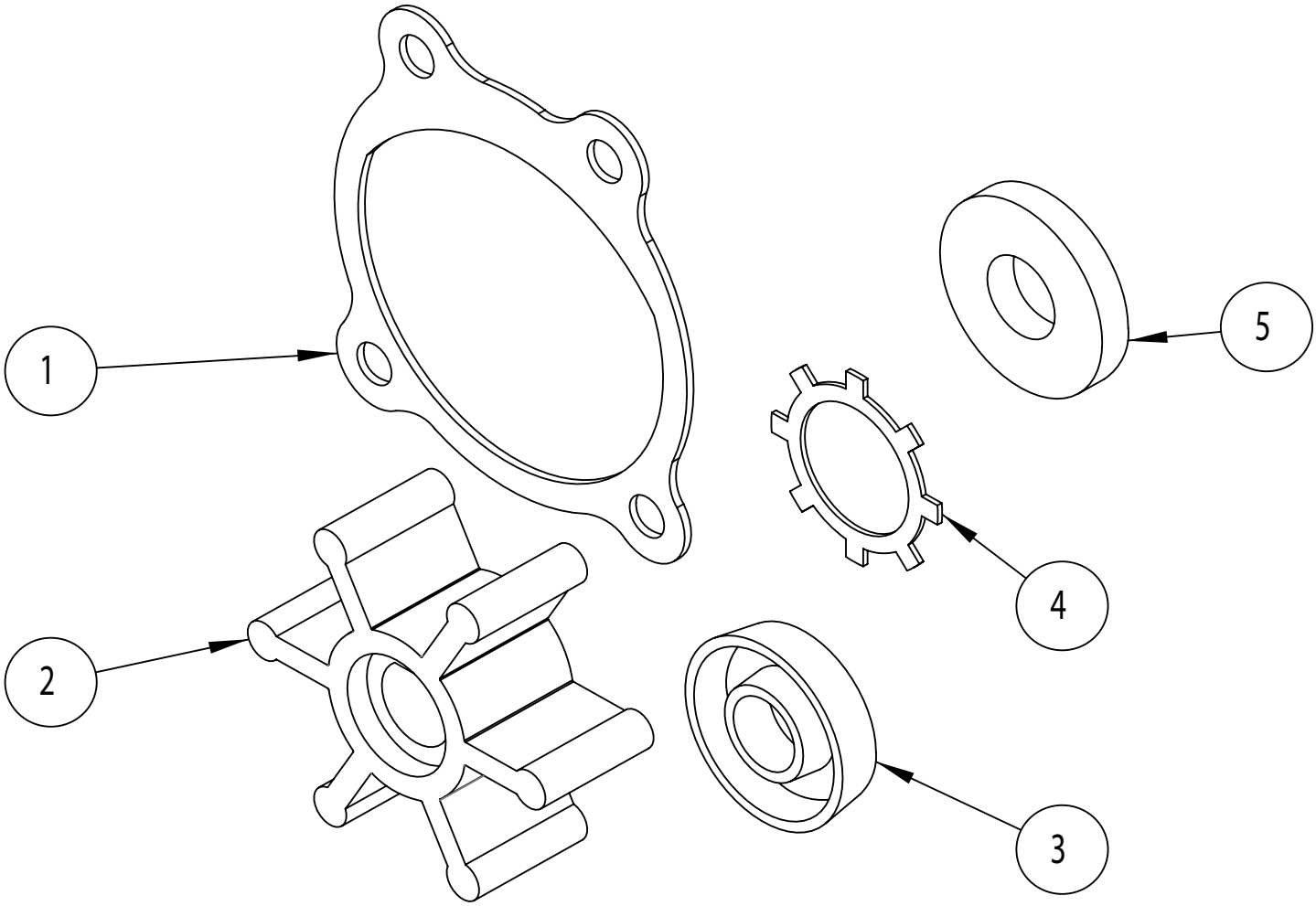
For Replacement Parts or Customer Support, Call 1-800-237-0987

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

Address parts correspondence to:

WAYNE Water Systems
101 Production Drive
Harrison, OH 45030 U.S.A.



REPAIR KITS		
ITEM NO.	DESCRIPTION	QTY.
1	PC1 / PC2 GASKET	1
2	PC1 / PC2 IMPELLER	1
3	SHAFT SEAL	1
4	RETAINER RING	1
5	FELT WASHER	1

LIMITED WARRANTY

For one year for PC2 model from the date of purchase, from an authorized dealer, Wayne Water Systems will repair or replace, at its option for the original purchaser, any part or parts of its Multi-Use Pumps or Water Pumps ("Product") found upon examination by Wayne Water Systems to be defective in materials or workmanship. Please call Wayne Water Systems (800-237-0987) for warranty instructions. Be prepared to provide the model number and the serial number when exercising this warranty. All transportation charges on Products or parts submitted for repair or replacement must be paid by purchaser. This Limited Warranty is not transferrable. This Limited Warranty does not cover Products which have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance, or failure to operate in accordance with WAYNE's written instructions.

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THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, OBLIGATIONS OR AGREEMENTS, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ANY RIGHTS OR REMEDIES AGAINST ANY PERSON OR ENTITY UNDER THE UNIFORM COMMERCIAL CODE OR OTHERWISE WITH RESPECT TO THE SALE OF THE PRODUCT. THE REMEDIES AND OBLIGATIONS STATED IN THIS WARRANTY ARE THE SOLE AND EXCLUSIVE REMEDIES OF AND OBLIGATIONS TO THE OWNER FOR ANY AND ALL MATTERS ARISING WITH RESPECT TO OR IN ANY WAY CONNECTED WITH THE PRODUCT, REGARDLESS OF THE SOURCE OR PROVIDER OF SUCH GOODS. IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL WAYNE WATER SYSTEMS OR ANY AFFILIATE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

You *MUST* retain your purchase receipt along with this form. In the event you need to exercise a warranty claim, you *MUST* send a *copy* of the purchase receipt along with the material or correspondence. Please call Wayne Water Systems (800-237-0987) for return authorization and instructions.

DO NOT MAIL THIS FORM TO Wayne Water Systems. **Use this form only to maintain your records.**

MODEL NO._____ SERIAL NO._____ INSTALLATION DATE _____

ATTACH YOUR RECEIPT HERE

NOTES