

Owner's Manual Electric Drill Utility Pump





PUP63 Drill Pump

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ALWAYS USE EXTREME CAUTION

maintaining this product!

GENERAL SAFETY

Important Safety Instructions
Carefully read and follow all safety
instructions in this manual and on pump.

SAVE THESE INSTRUCTIONS – This manual contains important instructions that should be followed during installation, operation, and maintenance of the product.

Save this manual for future reference.

Safety Labels

This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury!

A DANGER Indicates a hazard which, if not avoided, will result in death or serious injury.

AWARNING Indicates a hazard which, if not avoided, could result in death or serious injury.

CAUTION Indicates a hazard which, if not avoided, could result in minor or moderate injury.

NOTICE indicates practices not related to personal injury.

Keep safety labels in good condition. Replace missing or damaged safety labels.

General Safety

ACAUTION Risk of burns. Do not touch an operating motor. Motors are designed to operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shut-down before handling.

Do not allow pump or any system component to freeze. To do so will void warranty.

Pump water only with this pump.

Periodically inspect pump and system components.

Wear safety glasses at all times when working on pumps.

AWARNING Risk of explosion. Pump body may explode if used as a booster pump.

NOTE: Not recommended to use for drinking water

WARRANTY

WHAT IS COVERED

This pump is warranted against defects in material and workmanship for 90 days from date of purchase.

WHAT IS NOT COVERED

Pumping anything other than clean water and motor oil, and if damaged due to misuse from being run without water or oil in the pump (running the pump dry).

Contact the Customer Service Team at 1-877-326-3561

PRE-ASSEMBLY

PERFORMANCE USING SUPPLIED HOSES (1/4IN. HOSE ON INLET) (3FT. GARDEN HOSE ON DISCHARGE)

Rate of Flow at 3,500 RPM	48 GPH
Rate of Flow at 800 RPM	42 GPH

PERFORMANCE USING A HEAVY DUTY GARDEN HOSE ON INLET (NOT SUPPLIED) AND SUPPLIED 3FT GARDEN HOSE ON DISCHARGE)

Rate of Flow at 3,500 RPM	260 GPH
Rate of Flow at 800 RPM	60 GPH

PRODUCT SPECIFICATIONS

Maximum Head at 3,500 RPM	100 ft.	
Maximum Head at 800 RPM) RPM 32 ft.	
Priming	Self-Priming up to 3 ft. vertically	
Lubrication	Factory lubricated for first time use. Lubricate with vegetable oil before each subsequent use	

PLANNING OPERATION

Carefully unpack and inspect each part. Pull oil tube completely out of garden hose. Compare parts with the package contents list. If any part appears missing or damaged, do not operate this product. Contact the customer support team.

TOOLS REQUIRED



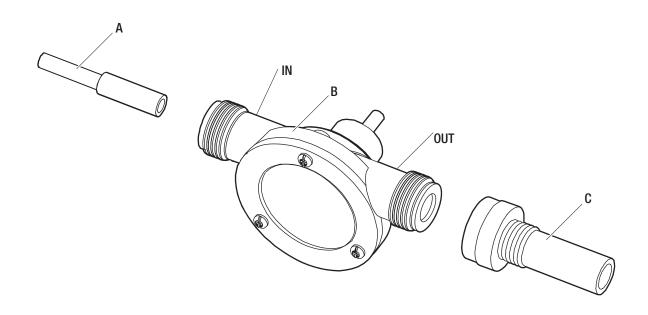
Garden Hose



NOTE: If using a garden hose on the suction side of pump, then the hose must be stiff walled and be kept as short as possible. If not, then there is a risk of the hose collapsing and blocking suction. There can be no leaks in the suction line or the pump will not prime.

PLANNING OPERATION (CONTINUED)

PACKAGE CONTENTS



PART	DESCRIPTION	REPLACEMENT PART NUMBER	QUANTITY
А	Oil tube, 35 in. x 1/4 in. O.D. W/Adapter 3 in. Adapter (3/8 in. O.D., and 1/4 in, I.D.)	60DRLL005A	1
В	Pump	60DRLL001	1
С	3ft. x 1/2in. Discharge garden hose with brass female fitting	60DRLL006	1

Preparing to pump motor oil using adapter and tube

Ensure drill is not connected to electrical service as you begin this process.

- ☐ Remove the dipstick from the engine/motor from which you plan to remove motor oil.
- \square Cut at a 60 degree angle one end of tube (A).
- ☐ Lubricate the pump impeller by placing several drops of mineral or vegetable oil on the impeller at inlet port (1).
- ☐ Place the adapter tube (B) into the inlet port (1) of the pump (C) as far as it will go in.
- ☐ Insert the end of the tube (A) with the 60 degree cut into the motor dipstick hole.
- \square Attach the garden hose (D) to port (2).
- ☐ Attach drill pump with tubes and hose to drill.
- ☐ Connect drill motor power cord to a 3-wire grounded plug.

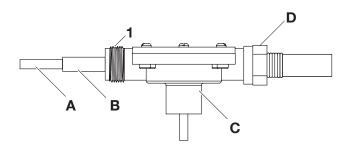
AWARNING To minimize the pump rotating on the drill, firmly grip the drill pump and hold it as you start the drill.

the drill pump within 15-20 seconds to avoid damaging the pump. If it does not, check to ensure the tube (A) is firmly inserted in the adapt er (B) and that the adapter (B) is firmly installed in pump (C), ensure the tube is not crimped and that the tube is fully inserted in the dipstick hole.

metal shavings are present

Do not pump oil if debris /

NOTE: Motor oil should be removed when at room temperature.



Preparing to pump clean water using garden hose connected to pump

Ensure drill is not connected to electrical service as you begin this process.

- ☐ Inspect the washer in the inlet hose to make sure it is in good condition and installed in the hose.
- ☐ Lubricate the pump impeller by placing several drops of mineral or vegetable oil on the impeller at inlet port (1).
- ☐ Connect hose (D) to the port and suction hose to intlet port on pump (C) outlet.

AWARNING

Keep the inlet hose as short

as possible

The combined height of the inlet and outlet hose should be no higher than 3 ft. above the water source and/or not more than 25 ft. horizontally from the water source.

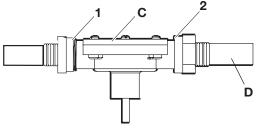
- ☐ Attach the drill pump with hoses to the drill.
- ☐ Connect the drill motor power cord to a 3-wire grounded plug.

AWARNING To minimize the pump rotating on the drill, firmly grip the drill pump and hold it as you start the drill.

drill pump within 15-20 seconds to avoid damaging the pump. If it does not, check to ensure the hose connections are firmly installed to the pump (C) and that the adapter (B) is firmly installed in pump (C), ensure none of the hoses are crimped and that the suction hose is fully inserted in the water source.

NOTE: Water should be removed when it is at room temperature.

AWARNING If water has suspended solids, a strainer should be installed on hose (D) that is in the water. A piece of door screen tied to end of hose that is in the water would help keep any solids out of the hose.



Preparing for operation

AWARNING
Risk of electrical shock, personal injury or death. Never touch or handle driven pump with wet hands or when standing on a wet surface or in water.

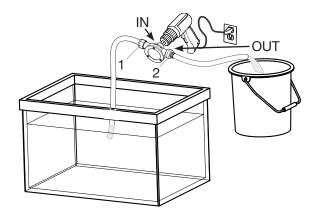
AWARNING Be sure the drill is always electrically grounded to an acceptable electrical ground.

NOTE: Keep the suction line as short as possible and filled with water.

NOTE: Any air leaks in the suction line will prevent the pump from priming.

- ☐ Use the unit within the liquid temperature range of 40°F to 120°F.
- Inspect hoses thoroughly before each use, making sure that all connections are tight and that the hoses are all in good condition.
- □ Be sure that the inlet line (1) is airtight and submerged in fluid. The inlet (1) and discharge (2) lines should be free of kinks and other flow restrictions.

NOTE: Hoses of shorter lengths, larger diameters, and stiffer walls will result in better performance



Priming the pump

NOTE: Never operate the impeller dry.
Operating it dry for as little as 30 seconds can ruin the pump. The impeller must be oiled to reduce friction or wear.

NOTE: Never operate the pump dry for prolonged periods of time, as this will damage the pump.

NOTE: Use a strainer on the end of the inlet hose, when pumping liquids with small solids to extend pump life.

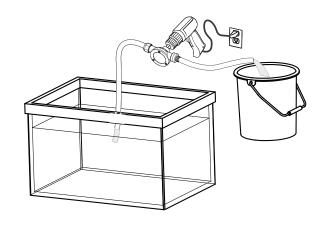
NOTE: Oil becomes thick in cold weather. Oil must be kept thin for the pump to work properly.

- □ Wet the impeller located inside the pump with pumped fluid and/or cooking mineral oil before starting the pump. This improves the priming process.
- Start the drill pump. Self-priming should occur within 30 seconds. The pump will selfprime up to an 8 ft. vertical lift. Be sure that the liquid enters the pump within 15 to 20 seconds. If not, refer to the assembly instructions and also the Troubleshooting section.

NOTE: Electric drills are not intended to be operated unattended or continuously. Doing either of these can cause the pump and drill to fail.

- ☐ If pump fails to prime, ensure that there are no air leaks or obstructions in suction line.
- ☐ If front cover is removed for impeller maintenance, be sure to clean and lubricate the shaft seal, impeller and O-ring before reassembly

NOTE: Do not overtighten screws or pump housing damage can occur!



MAINTENANCE

Normal use of the pump causes it to wear. To extend pump life:

Lubricate the impe	eller with	n vegetable	oil bef	ore eac	h use	by	placir	ng
a few drops in pu	mp inlet	(port 1)						

☐ Always flush with clear water after using

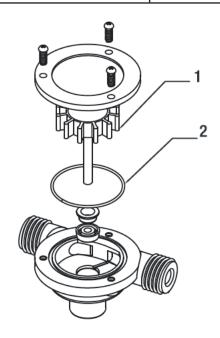
Keep the suction hose/tubing as short as possible and prime the hose/tubing
(fill with liquid) when possible before starting the pump

 $\hfill\Box$ Do not use a suction hose that can collapse due to vacuum pressure

☐ If front cover is removed for impeller maintenance, be sure to clean and lubricate the shaft seal, impeller and O-ring before reassembly.

SERVICE PARTS

NUMBER	DESCRIPTION	PART NUMBER	QUANTITY
1	Impeller	EFPUP6301	1
2	O-ring	EFPUP6302	1



TROUBLESHOOTING

Problem	Probable Cause	Corrective Action		
The pump will not prime	Air is leaking into the inlet hose or connection	Replace the washer in the hose fitting or replace the hose		
	The inlet hose is clogged	Clean or replace the hose		
	The hose collapsed due to inlet line suction on a flat surface	Use quality, heavy duty, thick-walled hose on suction side of pump Notch the end of the inlet line where it meets the flat surface,		
		use suction rated hose		
	The impeller, body, and end cover are worn from pumping abrasives	Replace the pump		
	The impeller blades are missing or charred from dry running	Replace the pump		
	Air is leaking in at the seal or O-ring	Incrementally snug the screws on the front cover plate to seal the O-ring. Disassemble, clean and lubricate all components and seals. If O-ring or Shaft seal is damaged, replace the pump		
	The shaft turns but the impeller does not turn	Replace the pump		
	Drill speed is too slow	Increase drill speed		
There is a low flow rate	The drill is running too slowly	Increase the drill speed. Minimum dril speed for acceptable operation is 800 RPM. Optimal drill speed is 3500 RPM		
	There is a restriction in the inlet or discharge hoses	Clean or replace the hoses. Check hoses to eliminate any sharp bends or kinks in the lines		
	The suction hose is too long, the diameter is too small and/or the pump is too high above the liquid surface	Use appropriate hose and pumping setup to maximize performance		
Liquid is leaking where the shaft enters the pump body	The lip seal is damaged	Replace the pump		

WARRANTY

Retain Original Purchase Receipt for Warranty Eligibility

Limited Warranty

Manufacturer warrants to the original consumer purchaser ("Purchaser" or "You") that its products are free from defects in material and workmanship for a period of 90 days from the date of the original consumer purchase. If, within 90 days from the original consumer purchase, any such product shall prove to be defective, it shall be repaired or replaced at manufacturer's option, subject to the terms and conditions set forth herein. Note that this limited warranty applies to manufacturing defects only and not to ordinary wear and tear. All mechanical devices need periodic parts and service to perform well. This limited warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

The original purchase receipt and product warranty information label are required to determine warranty eligibility. Eligibility is based on purchase date of original product – not the date of replacement under warranty. The warranty is limited to repair or replacement of original purchased product only, not replacement product (i.e. one warranty replacement allowed per purchase).

Purchaser pays all removal, installation, labor, shipping, and incidental charges.

Claims made under this warranty shall be made by returning the product to the retail outlet where it was purchased or to the factory immediately after the discovery of any alleged defect. Manufacturer will subsequently take corrective action as promptly as reasonably possible. No requests for service will be accepted if received more than 30 days after the warranty expires. Warranty is not transferable and does not apply to products used in commercial/rental applications.

General Terms and Conditions; Limitations of Remedies

You must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty does not apply to the following: (1) acts of God; (2) products which, in manufacturer's sole judgment, have been subject to negligence, abuse, accident, misapplication, tampering, or alteration; (3) failures due to improper installation, operation, maintenance or storage; (4) atypical or unapproved application, use or service; (5) failures caused by corrosion, rust or other foreign materials in the system, or operation at pressures in excess of recommended maximums.

This warranty sets forth manufacturer's sole obligation and purchaser's exclusive remedy for defective products. MANUFACTURER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING LIMITED WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING LIMITED WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN.

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



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