

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

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BauerTM

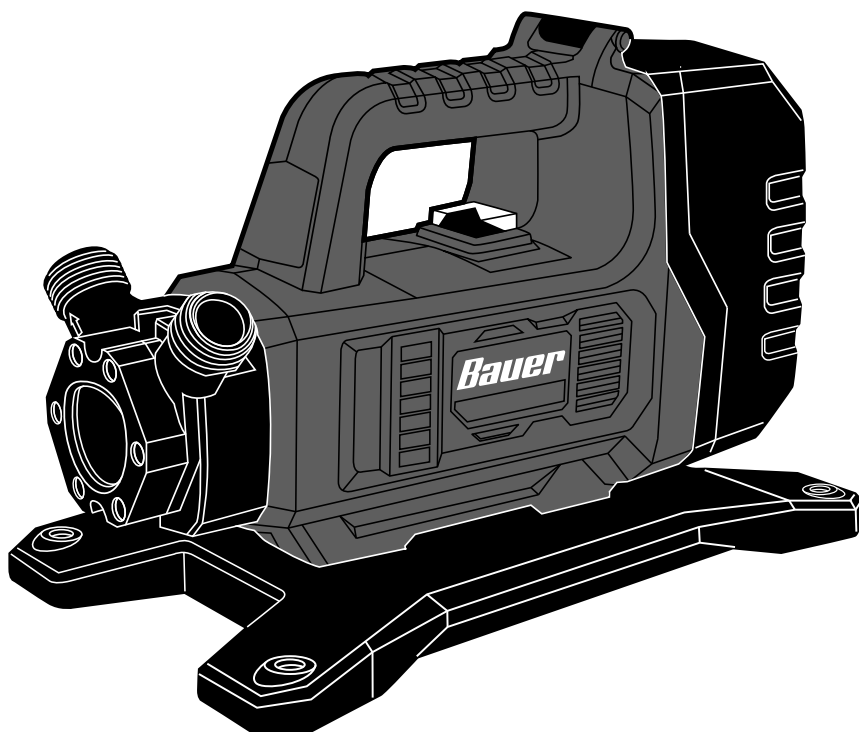
191101H-B

20v/120v

DUAL POWER

HYPERMAXTM **LITHIUM**

**For Best Results,
Use 3.0 Amp Hour Battery
(Sold Separately) or
Power Adapter**



DUAL POWER TRANSFER PUMP

Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠ WARNING

Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

Before start-up, note the following:

The pump must be connected to a GFCI protected plug which has been installed according to regulations. The plug must have a supply voltage of 120 VAC at 60 Hz.

CAUTION

This pump has been evaluated for use with water only.

⚠WARNING

IMPORTANT! For your own safety – before starting to run the pump, please have the following items checked by an expert:

1. Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.
2. Risk of electric shock – This pump has not been investigated for use in swimming pool areas.
3. The electrical connections must be protected from moisture.
4. If there is danger of flooding, the electrical connections must be taken to higher ground.
5. Circulation of caustic fluids, as well as the circulation of abrasive materials, must be avoided at all costs.
6. The pump must be protected from frost.
7. The pump must be protected from running dry.
8. Access by children should also be prevented with appropriate measures.
9.  **To prevent death from electric shock, pump must be connected only to a GFCI protected outlet.**
10.  **Do not pump flammable materials. Motor brushes may spark and cause explosions.**
11. Do not use an extension cord on either the pump or the charger.

12. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
13. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
14. Do not leave the tool unattended when it is plugged into an electrical outlet or the Battery Pack is connected. Turn off the tool, and unplug it from its electrical outlet or remove the Battery Pack before leaving.
15.  The battery Charger gets hot during use. The Charger's heat can build up to unsafe levels and create a fire hazard if it does not receive adequate ventilation, due to an electrical fault, or if it is used in a hot environment. Do not place the Charger on a flammable surface. Do not obstruct any vents on the Charger. **Especially avoid placing the Charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the Charger.** Place the Charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the Charger and Battery Pack while charging.
16. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*
2. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*

4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. *Liquid ejected from the battery may cause irritation or burns*

Lithium Battery Safety Warnings



**LITHIUM BATTERIES STORE
A LARGE AMOUNT OF ENERGY AND
WILL VENT FIRE OR EXPLODE IF MISTREATED:**



1. Keep Battery Pack dry.
2. DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY PACK:
 - a. Open,
 - b. Drop,
 - c. Short-circuit,
 - d. Puncture,
 - e. Incinerate, or
 - f. Expose to temperatures greater than 140°F.
3. Charge Battery Pack only according to its Charger's instructions.
4. Inspect Battery Pack before every use; do not use or charge if damaged.

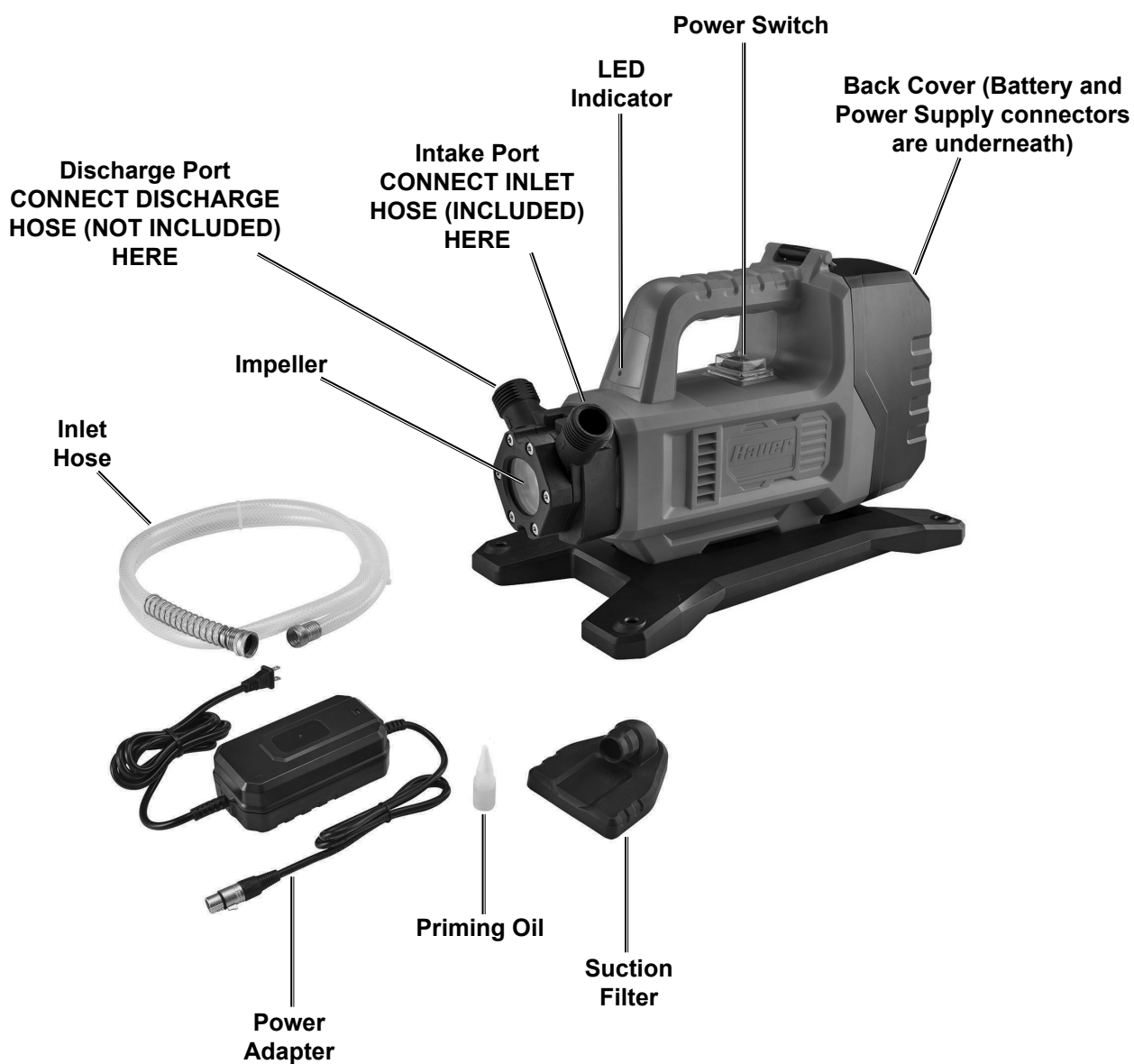
Fluid Type

The Pump is designed for use with water with a maximum temperature of 95° F (35°C). Do not use the pump for other fluids, especially not fuels, cleaning fluids, or other chemical products.

Specifications

Battery Rating	Bauer 20V Li-ion (sold separately)
Adapter Electrical Rating	Input: 120VAC / 50/60Hz / 3.5A Output: 18VDC / 8.3A
Maximum Flow @ 0'	325 GPH
Maximum Head lift @ 0 Flow	45'
Discharge Port	3/4" Garden Hose Thread

Functions



Installation

The pump must be installed in a stationary position with either:

- a. A fixed pipeline or
- b. A flexible hose pipe.

Please note!

1. Do not install the pump by suspending it unsupported from its delivery pipe or power cord. The pump must be suspended from the handle or be placed on the bottom of the basin. To ensure that the pump works properly, keep the bottom free from sludge and dirt of all kinds.
2. If the water level sinks too low, any sludge in the basin will dry out and stop the pump from starting. To help ensure the pump will start as required, check the pump regularly with start-up tests.

120VAC Power Adapter

1. The pump is equipped with a shock-proof plug according to regulations. The pump is designed to be connected to a 120 VAC, 60 Hz GFCI protected socket.
2. Make sure that the socket is sufficiently secured and is in excellent condition.
3. Depending on application, a separate flow switch (not included) may be needed between the plug and the outlet.
4.  **WARNING: To prevent death from electric shock, pump must be connected only to a GFCI protected outlet.**
WARNING! If the power adapter or plug is damaged, do not use the pump. The power adapter or plug may only be repaired by a certified electrician.
 - a. Lift Back Cover of Transfer Pump.
 - b. Connect the Power Adapter to the 120VAC Input on back of Transfer Pump.
 - c. Plug the other end of the adapter into a grounded 120VAC outlet.

Battery Pack

- a. Lift Back Cover of Transfer Pump.
- b. Insert fully charged Battery Pack into back of pump, making sure it clicks into place securely.

Tool Set Up

Battery Charging

Charge battery before using this pump. Follow instructions included with battery charger (sold separately).

LED Indicator Modes

Pump has a red LED Indicator light that displays the following modes:

- **ON** = Pump is ready to operate.
- **FLASHING** = Voltage is low. Check all connections. OR pump has run dry. Turn pump off and relocate intake filter to deeper water.
- **DIMLY LIT** = Pump is overheating. Turn pump off and allow to cool. Inspect impeller for any possible obstructions.
- **PULSING** = Pump is overloading. Turn pump off. Inspect impeller for any possible obstructions.

Areas of use

1. This pump is designed to pump water only.
2. This pump is designed to be used for:
General purpose removal or transfer of clear water.
3. This pump should NOT be used for:
Continuous run, fountain/pond water features. Removing water from swimming pools or spas. Septic or sewage systems.
4. This pump can also be used to transfer water (e.g. household, farming, plumbing).

Installation Instructions

1. Attach non-collapsible hose to Pump intake port.
Attach second hose to Pump discharge port.
2. Position Pump on solid surface so that both hoses are free from kinks.
3. Flip Power Switch to off position.
4. Plug Power Adapter directly into GFCI protected outlet or attach a fully charged Bauer 20V Li-ion Battery Pack.
5. Place unconnected end of intake hose in water to be transferred. Place unconnected end of discharge hose as needed to direct the water discharge at least 3 feet away from the source.

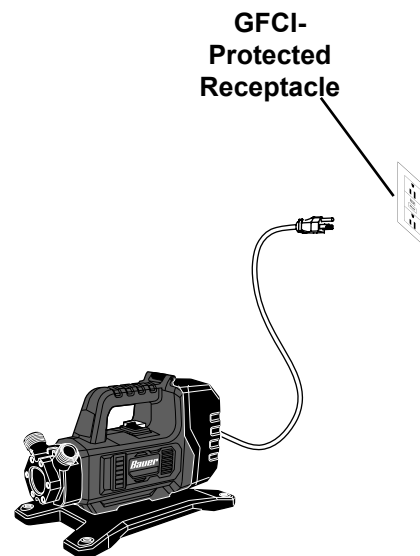


Figure A: GFCI Outlet

Operating Instructions

After reading these instructions, consider the following points before starting the pump:

1. Place 2 drops of priming oil into the Intake Port. Failing to do so will reduce impeller life, which depends on lubrication.
2. Verify that the discharge pipe is properly connected.
3. Verify that the electrical connection is 120 VAC, 50/60 Hz.
4. Verify that the electrical socket is GFCI protected and in good condition. Test GFCI protected outlet before use.
5. Verify that water and moisture cannot get near the power supply socket.

NOTE: Using the included attachment, the Pump will remove water down to 1/8". Unplug the Pump once 1/4" water level is reached.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Unplug the Pump from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

If the pump is moved during operation, flush it out with clean water after every use.

Quarterly Maintenance

The below maintenance must be performed at least once every 3 months under optimal conditions. For frequent use, or dirty areas, more frequent maintenance is required.

1. Clean sludge and debris from the bottom of the basin.
2. Clean sludge/debris from inlet screen.
3. Make sure discharge pipe is free from leaks.
4. Make sure check valve is functioning properly.
5. Manually operate any flow switch (not included) to determine that pump turns on/off as intended.

Troubleshooting

Problem	Possible Causes	Possible Solutions
Pump runs, but will not deliver any water.	1. Inlet Screen and/or impeller clogged. 2. When starting, the water height falls below the minimum water level (1/8"). 3. Low line voltage. 4. Check valve (sold separately) stuck or installed backwards.	1. Remove Inlet Screen. Clean out dirt and debris from Inlet Screen and impeller. Then replace Inlet Screen. 2. There must be at least 1/8" deep water for the Pump to operate properly, using the included attachment. 3. Consult an electrician. 4. Remove and examine check valve.
Pump won't start or run.	1. Check power connections and circuits/fuses. 2. Inlet Screen and/or impeller clogged. 3. Defective motor.	1. Consult an electrician. 2. Remove Inlet Screen. Clean out Inlet Screen and impeller. Reinstall Inlet Screen. 3. Have a qualified service technician repair or replace.
Excessive noise or vibration.	1. Debris in impeller. 2. Discharge hose restricted.	1. Remove Inlet Screen. Clean impeller. Reinstall Inlet Screen. 2. Clean Pump and discharge hose.
Pump starts and stops too frequently.	1. Water temperature too high. 2. Check valve (sold separately) stuck or installed backwards. 3. Back flow of water from discharge hose.	1. Do not exceed 95° F (35°C) water temperature. 2. Remove and examine check valve. 3. Install or inspect check valve (sold separately).



Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

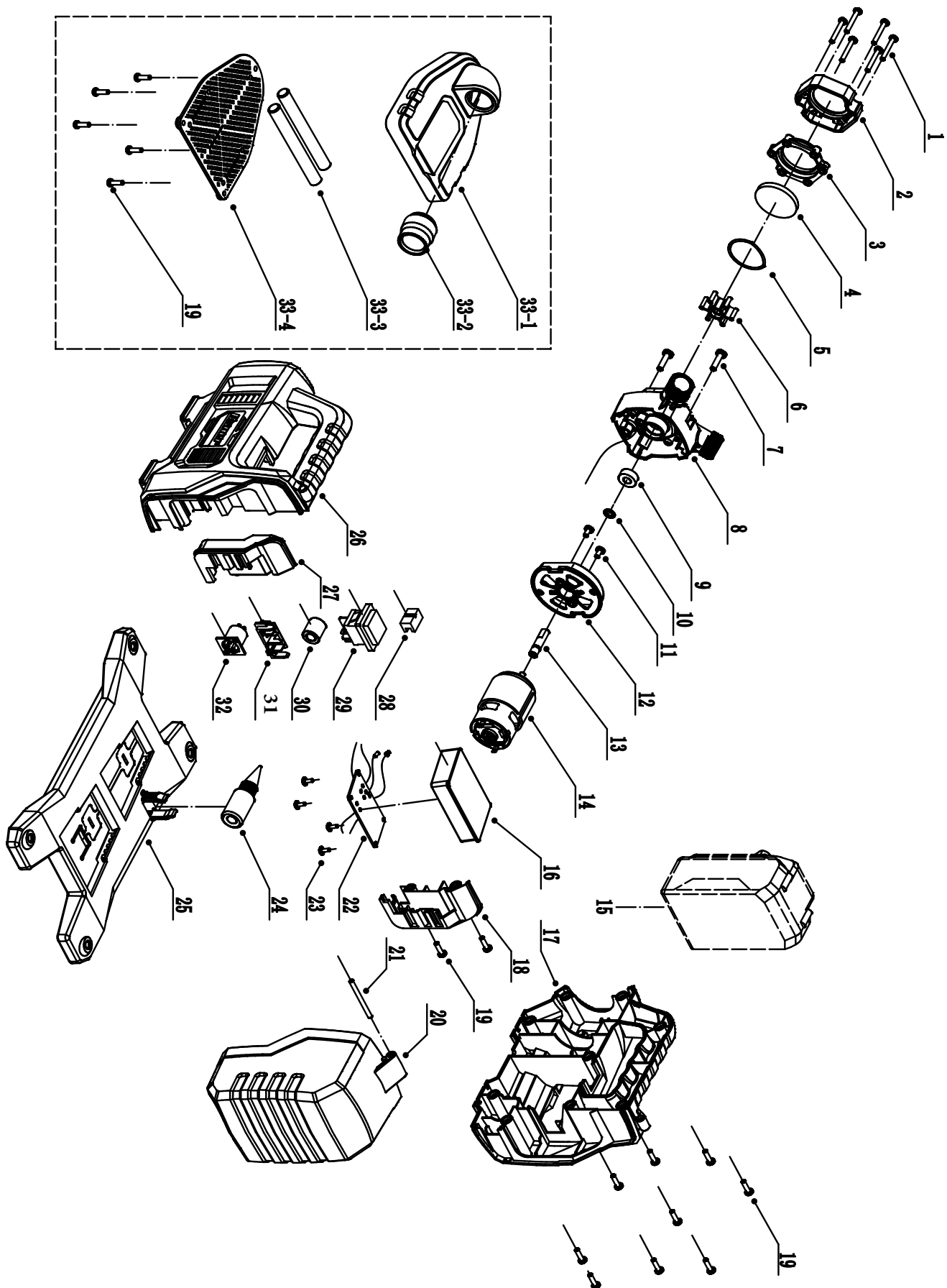
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Parts List

Part	Description	Qty.	Part	Description	Qty.
1	Hexalobular Socket Pan Head Screw	6	19	Hexalobular Socket Pan Head Screw	16
2	Capping	1	20	Back Cover	1
3	Transparent Cover	1	21	Pin Shaft	1
4	Glass Cover	1	22	Protective Plate	1
5	O-Ring Seal	2	23	Hexalobular Socket Pan Head Screw	4
6	Impeller	2	24	Lubricating Oil	1
7	Hexalobular Socket Pan Head Screw	2	25	Base	1
8	Turbine Shell	1	26	Left Housing	1
9	Skeleton Oil Seal	1	27	Left Interface	1
10	O-Ring Seal	1	28	Pressure Pad	1
11	Hexalobular Socket Pan Head Screw	2	29	Power Switch	1
12	Middle Cover	1	30	Magnetic Tube	1
13	Output Shaft	1	31	Frame Contact Stand	1
14	Motor	1	32	Dc-18V Input Interface	1
15	Battery Pack (sold separately)	1	33-1	Intake Filter	1
16	Waterproof Cover	1	33-2	Rubber Port	1
17	Right Housing	1	33-3	Weighing Block	2
18	Right Interface	1	33-4	Filter Screen	1

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Assembly Diagram



Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only,
and are not available individually as replacement parts.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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