

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 (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.

24f

Bauer™ **22143C-B** **20v LITHIUM-ION**



CORDLESS PORTABLE POWER CLEANER

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

59788

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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⚠ WARNING

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

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Bauer™

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
 DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS



WARNING - When using this product basic precautions should always be followed, including the following:

Safety Warnings

1. Read all the instructions before using the product.
2. To reduce the risk of injury, close supervision is necessary when a product is used near children.
3. Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
4. Stay alert – watch what you are doing.
5. Do not operate the product when fatigued or under the influence of medication, alcohol or drugs.
6. Keep operating area clear of all persons.
7. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
8. Follow the maintenance instructions specified in the manual.
9. **WARNING** – Risk of injection or injury– do not direct discharge stream at persons.
10. Disconnect battery pack before cleaning or servicing.
11. **Service**
 - a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*
 - b. **Never service damaged BATTERY packs.** *Service of BATTERY packs should only be performed by the manufacturer or authorized service providers.*
 - c. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

12. Battery tool use and care

- a. **Prevent unintentional starting.** *Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the power tool. Carrying the power tool with your finger on the switch or energizing power tool that have the switch on invites accidents.*
- b. **Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tool.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- c. **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.*
- d. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- e. **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.*
- f. **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.*
- g. **Do not use a battery pack or power tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.*

- h. **Do not expose a battery pack or power tool to fire or excessive temperature.** *Exposure to fire or temperature above 140°F may cause explosion.*
- i. **Follow all charging instructions and do not charge the battery pack or power tool outside of the temperature range specified in the instructions.** *Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.*
- j. **Have servicing performed by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the product is maintained.*
- k. **Do not modify or attempt to repair the power tool or the battery pack except as indicated in the instructions for use and care.**

- l.  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.

Set up Precautions

1. The work area should have adequate drainage to reduce the possibility of a fall or electric shock due to wet surfaces.
2. Wear ANSI-approved safety goggles during set up and use.
3. Only feed clean water through this tool. Do not use pressure washer detergent. Do not use caustic materials, solvents, flammable materials. Use of any such material can cause injury, or damage this tool or personal property.
4. Prior to starting the Power Cleaner in cold weather, check all of the parts of the unit to make sure ice has not formed. Do not store the unit anywhere that the temperature will fall near 32° F (0° C).

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.

Battery Charger Safety

Follow safety instructions included with this item's charger (sold separately).

Operating Precautions

1. Open Battery Compartment and remove battery pack before making any adjustments, changing accessories, or storing power cleaners. Such preventive safety measures reduce the risk of starting the power cleaner accidentally.
2. Do not leave the equipment unattended when it is running. Turn off the equipment before leaving the work area.
3. Wear ANSI-approved safety goggles and heavy-duty nonslip rubber work boots during use.
4. Use only accessories that are recommended by Harbor Freight Tools for your model. Accessories that may be suitable for one piece of equipment may become hazardous when used on another one.
5. Do not dry run this product. Dry running will cause serious damage to the seals.
6. When using the Power Cleaner, always maintain a firm grip on the Spray Gun. Squeezing the Trigger of the Spray Gun causes a kickback force.
7. Do not feed already-pressurized water (such as that from another power cleaner) into this cleaner.
8. 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.
9. Use the correct equipment for the application. Do not modify the equipment and do not use the equipment for a purpose for which it is not intended.
10. If water is leaking out of the Power Cleaner immediately turn off the unit. Unplug the Power Cleaner, and discharge all pressure before tightening fittings or having repair work done by a qualified technician.
11. The high pressure water flow can damage the work surface if not used properly. Always test the spray in an open area first.
12.  **Injection Hazard.** The high pressure water jet produced by this tool can cut skin or cause injury to hands or eyes. Do not allow spray to strike you and do not spray toward people or animals. Do not spray the tool itself or any electrical source.
13. This Power Cleaner is intended for either indoor or outdoor use.
14. **In case of an emergency during use, immediately release the trigger on the spray handle, turn the power switch off and then remove the battery. Do not set the spray handle down without turning off the power switch.**

Vibration Hazard:

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.



SAVE THESE INSTRUCTIONS.

Symbology

SAFETY

V	Volts		WARNING marking concerning Risk of Injection. Do not direct spray at any person or animal.
=	Direct Current		WARNING marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.
A	Amperes		WARNING marking concerning Risk of Electric Shock. Properly connect Charger's power cord to appropriate outlet.
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.		WARNING marking concerning Risk of Explosion. Do not puncture, short, or open battery packs and do not charge damaged battery packs.
	Read the manual before set-up and/or use.		

SETUP

Grounding

⚠ WARNING



TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING:
Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Extension Cords

Note: Extension cords must not be used with this item's Charger.

OPERATION

Specifications

Battery Type	Bauer 20V Li-Ion
Charger Type	Bauer 20V Li-Ion
Maximum Pressure	320 PSI (22bar)
Maximum Flow Rate	0.6 GPM
Maximum Water Temperature	120°F
Maximum Inlet Water Pressure	86 PSI
Hose	20 ft

For Household and Outdoor Use

MAINTENANCE

Setup – Before Use:



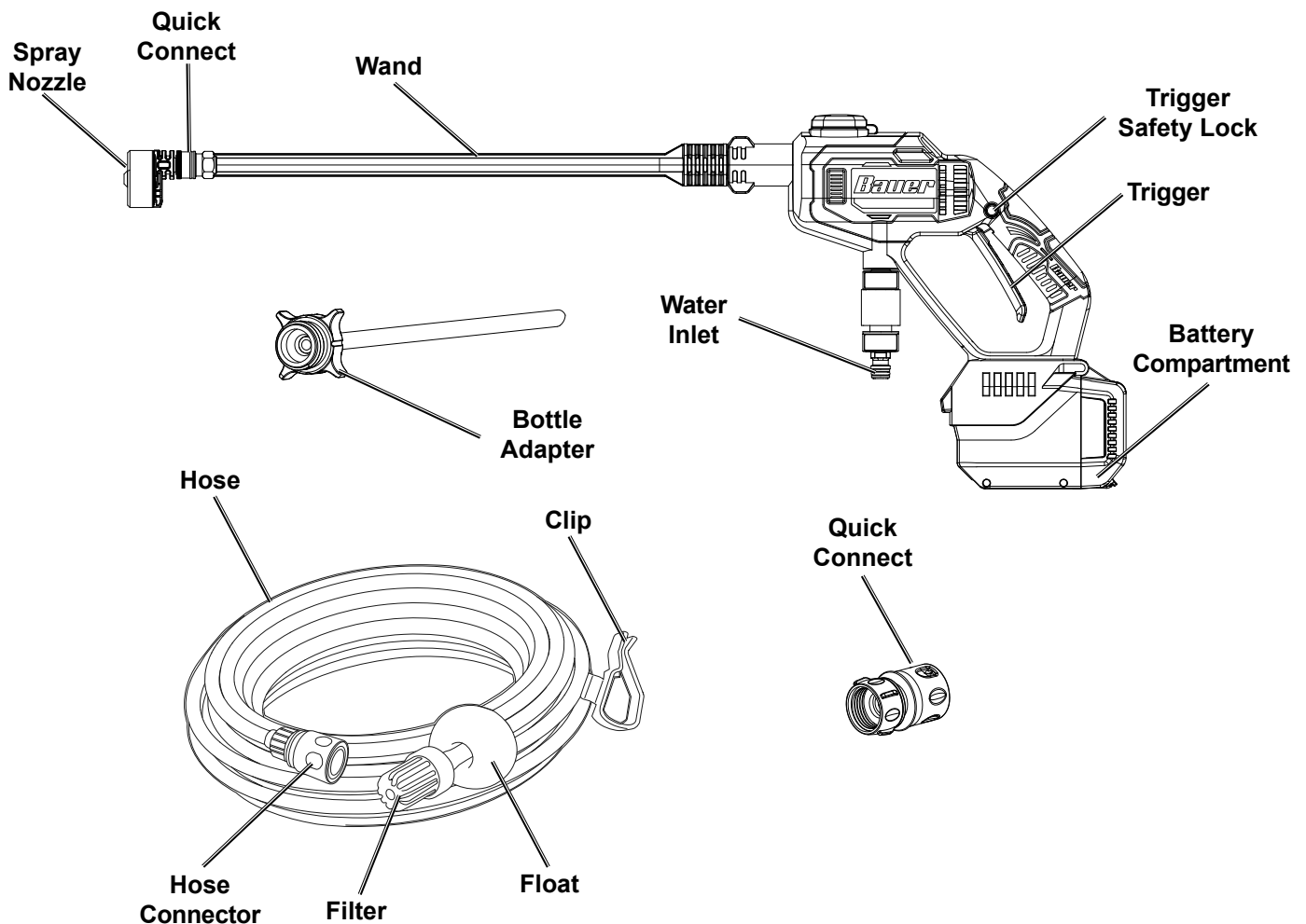
Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the Trigger is in the off-position, remove Battery Pack, shut off the water supply, and safely discharge all residual water pressure from the unit before assembling or making any adjustments to the tool.

Functions

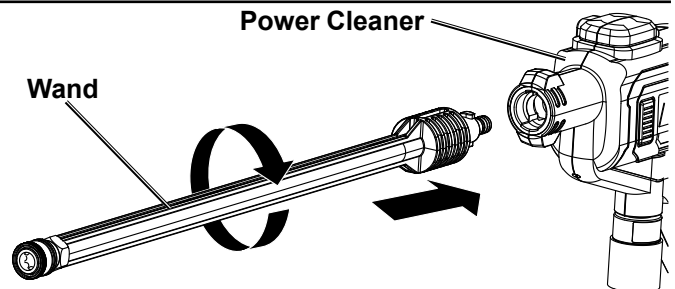


Assembly

Note: For additional information regarding the parts listed in the following pages, refer to *Parts List and Assembly Diagram* on page 14.

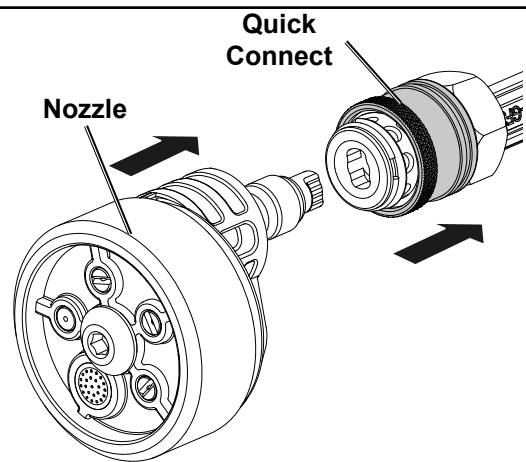
Attach Wand

Insert Wand into Power Cleaner and rotate clockwise to lock in place.



Attach Spray Nozzle

Pull back collar on Wand's Quick Connect and insert Nozzle, then release collar.



Operating Instructions



Read the **ENTIRE** IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Make sure that the Trigger is in the off-position, remove Battery Pack and relieve all pressure before performing any procedure in this section.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. **PLAN OUT THE JOB.** Plan out areas to be cleaned, how many sessions will be necessary, and how long the individual sessions will need to be. Plan to clean the higher areas first. Plan a safe direction for runoff, and plan on working your way in that direction.
3. Clear the area of all objects that are not being cleaned. If any water-sensitive or delicate items cannot be moved, cover them. Disconnect power to protect any nearby electrical wiring. Close windows and doors.

NOTICE: If the Power Cleaner is run with an inadequate water supply, the pump may cavitate. Cavitation causes the pump to operate loudly and will damage it.

Charging Battery Pack

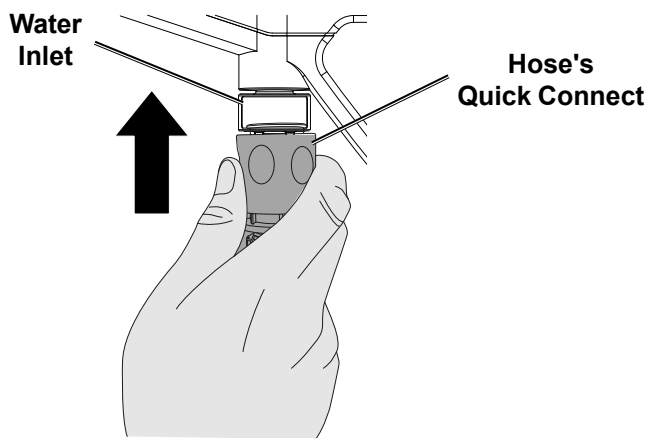
Charge battery after unpacking and before using this tool. Follow instructions included with Battery Pack and Charger.

Tool Set Up

1. Connect desired attachment to Power Cleaner:

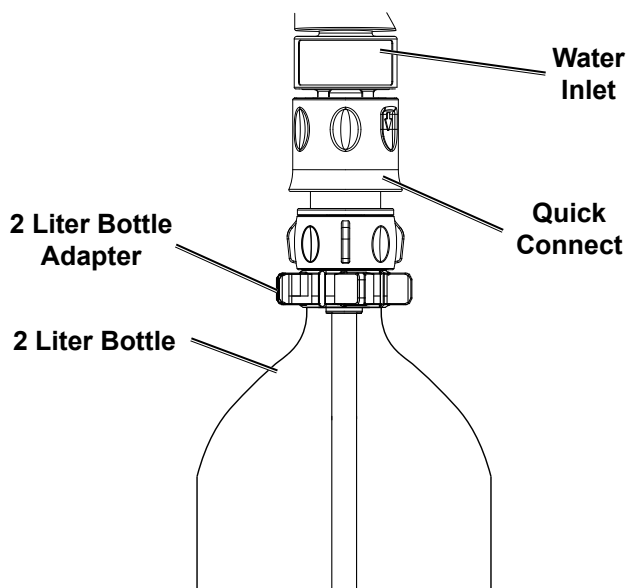
Included Hose:

- a. Uncoil Hose completely.
- b. Pull back collar on Hose's Quick Connect, place it onto Water Inlet, then release collar.
- c. Place other end of Hose in a container of clean water and secure with Clip.
- d. Slide Float down until it floats on the water.



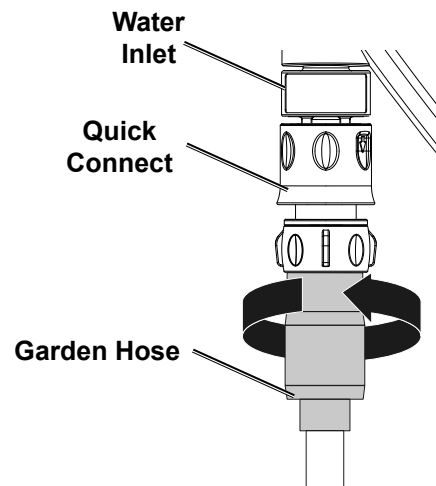
2 Liter Bottle Adapter:

- a. Pull back collar on Quick Connect, place it onto Water Inlet, then release collar.
- b. Thread 2 Liter Bottle Adapter into Quick Connect, tighten securely.
- c. Thread 2 liter bottle (sold separately) onto Bottle Adapter, tighten securely.



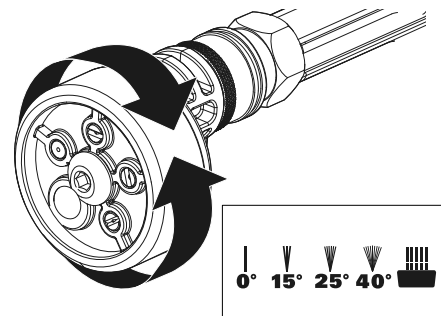
Garden Hose:

- a. Pull back collar on Quick Connect, place it onto Water Inlet, then release collar.
- b. Thread Garden Hose (sold separately) into Quick Connect, tighten securely.



2. Spray Pattern Selection:

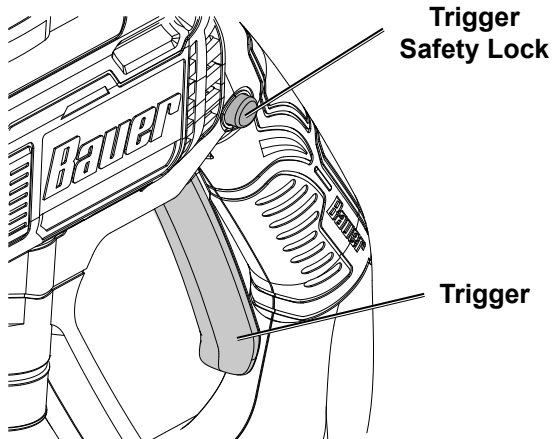
This Power Cleaner Nozzle includes 5 different spray patterns. Select the spray pattern that suits your requirements.



General Operating Instructions

This unit is intended for light to moderate cleaning. It is not intended for paint stripping or deep concrete cleaning.

1. Open Battery Compartment, insert battery, then close Battery Compartment.
2. **Test spray an inconspicuous area:**
 - a. Set Nozzle to 40° fan spray.
 - b. Point Spray Gun at 45° angle to test area. Press Trigger Safety Lock, then press Trigger.



- c. Spray test area, adjusting pressure, as needed, by changing distance from surface and/or adjusting Nozzle.

3. **Spray intended area:**
 - a. Set Nozzle to desired spray setting.
 - b. Point Spray Gun. Press Trigger Safety Lock, then press Trigger to spray.
 - c. When finished spraying, release Trigger to turn Power Cleaner off.
 - d. Turn off water supply and/or disconnect Power Cleaner from water supply.
 - e. Open Battery Compartment, remove battery, then close Battery Compartment.
4. **IMPORTANT: CLEAN THE NOZZLE AFTER EVERY USE TO MAINTAIN SPRAYING POWER AND PREVENT PUMP DAMAGE.**
 - Remove Wand from Spray Gun.
 - Remove Nozzle from Wand.
 - Push nozzle tip cleaner (sold separately) into tips to push out debris and buildup.
 - Remove nozzle tip cleaner and back-flush water through Nozzle.
 - Reattach Nozzle to Wand.
 - Clean and store according to **User-Maintenance Instructions on page 11.**

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⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool off, Remove the battery, shut off the water supply and safely discharge all residual water pressure from the unit before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

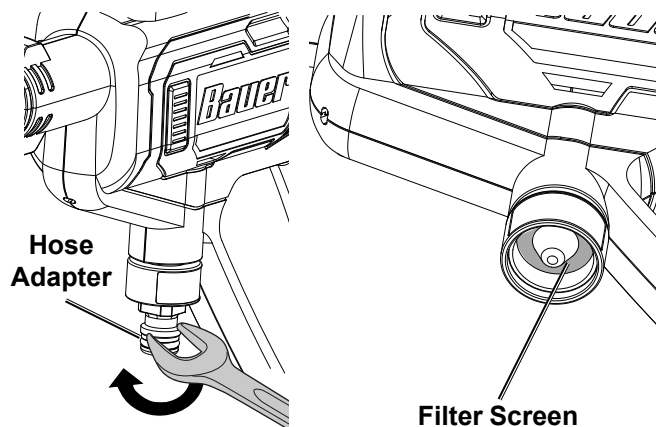
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

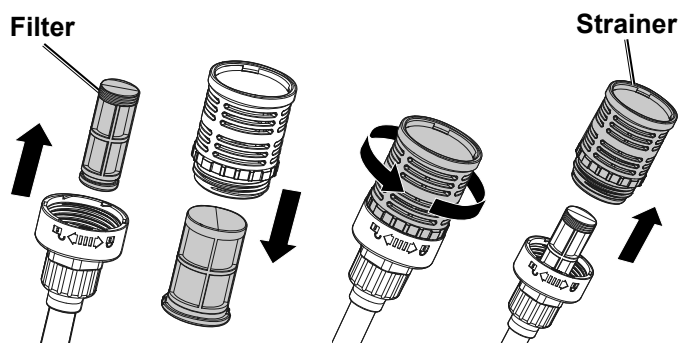
1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
 - leaking, swollen, or cracked battery pack,
 - loose hardware,
 - misalignment or binding of moving parts,
 - cracked or broken parts, and
 - any other condition that may affect its safe operation.

2. **AFTER USE:**

- Detach Hose Adapter and rinse filter screen with water, then reattach.



- Remove Hose Filter and rinse with water, then reattach.



- Use only a clean cloth and mild detergent to clean the body of the Power Cleaner. Do not use solvents.
- Do not immerse any part of the tool in liquid.
- Dry off any remaining water on all parts and fittings.
- Remove mineral deposits from the nozzle using a thin, stiff nozzle tip cleaner (sold separately).

3. **Li-Ion BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.** Do not short, incinerate or open battery.
4. **PERIODICALLY**, remove mineral buildup. Remove the battery. Fill Water Inlet with de-mineralizing solution, following solution manufacturer's instructions. Drain de-mineralizing solution out of Water Inlet and rinse out inlet thoroughly before use.

Storage

1. Place accessories and Water Inlet Hose in mesh storage bag.
2. Store in a dry, frost-free room. Flush the unit with automotive antifreeze prior to long-term storage. Dispose of antifreeze according to local ordinances.

Troubleshooting

SAFETY

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Problem	Possible Causes	Likely Solutions
Power Cleaner will not start	1. Battery Pack not properly connected. 2. Battery Pack not properly charged. 3. Battery Pack is burnt-out. 4. Internal damage or wear. (Trigger for example.)	1. Remove Battery Pack, make sure there are no obstructions, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place. 2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly. 3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 4. Have technician service tool.
Power Cleaner stops suddenly	Water leaking from housing.	SHOCK HAZARD! IMMEDIATELY discontinue use. Have the unit repaired by a qualified technician before further use.
Output pressure varies	1. Not enough water supply. 2. Air in water supply. 3. Water Inlet Filter is clogged. 4. Nozzle not attached to Spray Gun. 5. Nozzle is clogged. 6. Nozzle has mineral build up. 7. Internal valves or seals may be worn or sticking.	1. Check water supply hose for kinks, leaks, or blockage. Open faucet all the way. 2. Check that all connections are tight. 3. Remove Filter and clean. 4. Pressure is created by the Nozzle, not the Spray Gun. Attach Nozzle to Spray Gun. 5. Remove Nozzle and clean with nozzle tip cleaner (sold separately). 6. Remove Nozzle and clean with de-mineralizing solution. 7. Have a qualified technician service tool.
Trigger does not depress	Safety lock is still engaged.	Press Trigger Safety Lock on the Handle of the Spray Gun to release the Safety Lock.
Performance decreases over time	Clogged with mineral deposits.	Clean unit with de-mineralizing solution.
 Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.		

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

SAFETY

SETUP

OPERATION

MAINTENANCE

Record Product's Serial Number Here: _____

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

Note: Replacement parts may be available for this item.

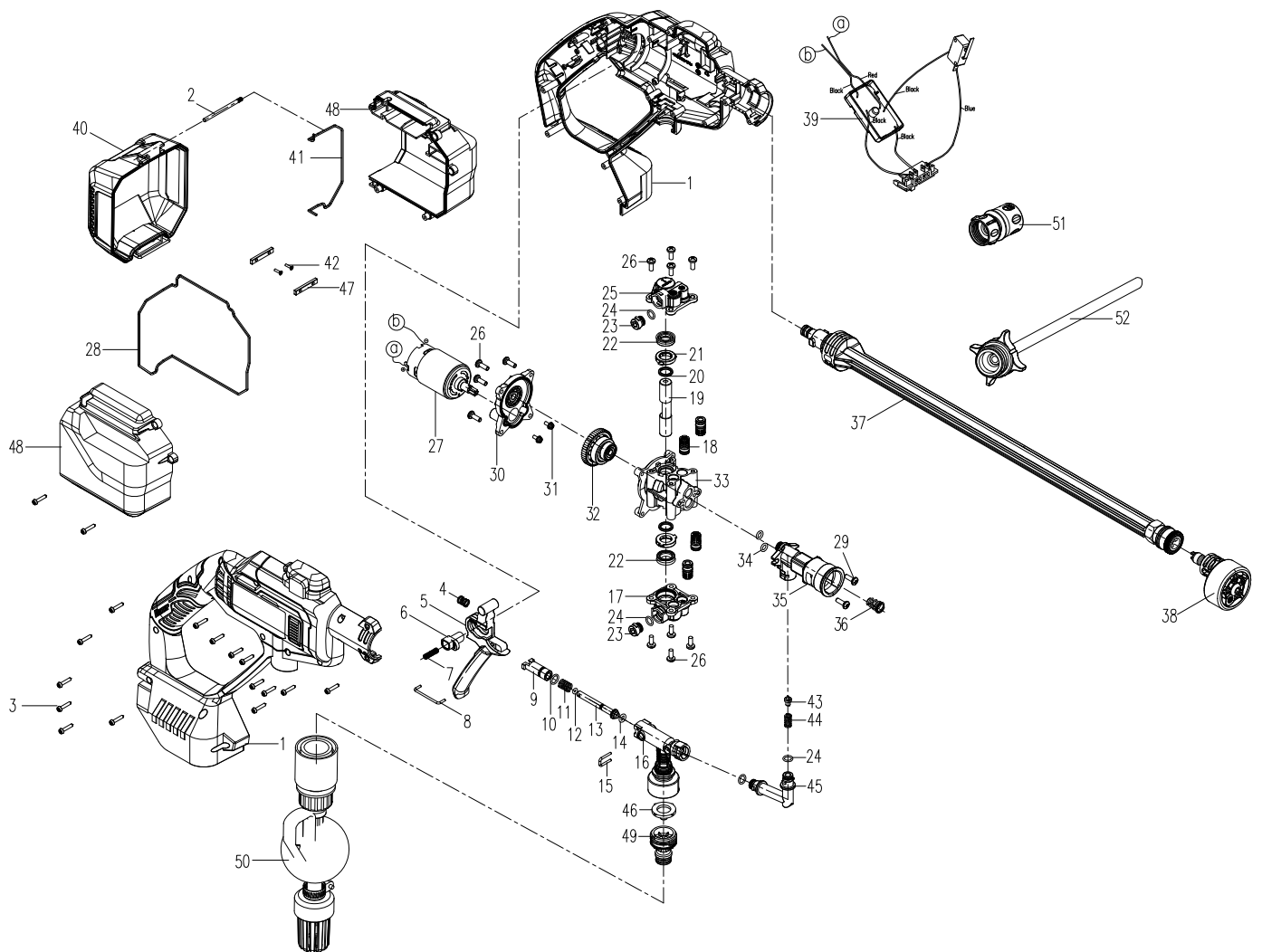
Visit harborfreight.com/parts for a list of in stock parts. Reference UPC 193175485434.

Parts List and Assembly Diagram

Parts List

Part	Description	Qty	Part	Description	Qty
1	Left/Right Housing	1	27	Motor	1
2	Rotating Shaft	1	28	Gasket	1
3	Screw ST2.9x16	17	29	Screw ST3.9x13	2
4	Spring	1	30	Motor Bracket	1
5	Trigger Switch	1	31	Screw and Washer Assembly	2
6	Trigger Lock	1	32	Drive Shaft Assembly	1
7	Compression Spring	1	33	Pump Housing	1
8	Linkage	1	34	O-Ring	2
9	Valve Deck	1	35	Connecting Tube	1
10	O-Ring	1	36	Compression Spring	1
11	Compression Spring	1	37	Wand	1
12	O-Ring	1	38	Spray Nozzle	1
13	Valve Element	1	39	Main Board	1
14	O-Ring	1	40	PCB Box Cover	1
15	U-Pin	1	41	Gasket	1
16	Seat	1	42	Screw ST1.5x10	2
17	Stopper 2	1	43	Valve Element	1
18	Check Valve	4	44	Compression Spring	1
19	Pump Rod	1	45	Connecting Tube	1
20	O-Ring	2	46	Filter	1
21	Bracket	2	47	Magnet Piece	2
22	Water Seal	2	48	Left/Right PCB Box	1
23	Plug	2	49	Water Inlet	1
24	O-Ring	4	50	Water Inlet Hose	1
25	Stopper 1	1	51	Garden Hose Adapter	1
26	Screw ST3.9x13	12	52	Bottle Adapter	1

Assembly Diagram



SAFETY

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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.

The logo for Bauer, featuring the word "Bauer" in a bold, italicized, sans-serif font. A small trademark symbol (TM) is located at the bottom right of the word.

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