

# 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.

22a

# **Bauer**™ **21508C-B**

## **20V**

### **HYPERMAX™ LITHIUM**

**For Longer Run-Time,  
Use 3.0 Amp Hour  
Battery Or Greater  
(Sold Separately)**

**RETURNS NOT  
ACCEPTED &  
WARRANTY VOID  
if Sprayer is not properly  
cleaned and lubricated  
immediately after every use.**

**Clean and Lubricate Sprayer  
immediately after use to  
prevent permanent damage.**



## **HANDHELD AIRLESS SPRAYER**

**Battery and Charger  
Sold Separately**

Visit our website at: <http://www.harborfreight.com>  
Email our technical support at: [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com)

**58520**

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.**






**RETURNS NOT ACCEPTED & WARRANTY VOID**  
if Sprayer is not properly cleaned and lubricated immediately after every use.

**Clean and lubricate Sprayer immediately to prevent permanent damage.**

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### 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.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

## IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS** – To reduce the risks of fire or explosion, electrical shock, and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and the proper usage of the equipment.
2. **WARNING** – To reduce the risk of fire or explosion:
  - a. Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
  - b. For units intended for use with only water-based or mineral spirit-type materials with a minimum flash point of 38°C (100°F) – Do not spray or clean with liquids having a flash point less than 38°C (100°F).
  - c. Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including objects in and around the spray area shall be properly grounded to protect against static discharge and sparks.
  - d. Verify that all containers and collection systems are grounded to prevent static discharge.
  - e. Do not use a paint or a solvent containing halogenated hydrocarbons. See operating instructions for examples of these types of materials.
  - f. Keep spray area well ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area.
  - g. Do not smoke in the spray area.
  - h. Do not operate light switches, engines, or similar spark producing products in the spray area.
  - i. Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
  - j. Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
  - k. Fire extinguisher equipment shall be present and working.

**RETURNS NOT ACCEPTED & WARRANTY VOID**  
**if Sprayer is not properly cleaned and lubricated immediately after every use.**

**Clean and lubricate Sprayer immediately to prevent permanent damage.**

3. **WARNING – To reduce the risk of skin injection:**
  - a. Do not aim the gun at, or spray any person or animal.
  - b. Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
  - c. Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
  - d. Only use a nozzle tip specified by the manufacturer.
  - e. Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the manufacturer's instructions for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
  - f. Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.
  - g. High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.
  - h. This system is capable of producing 2000 psi. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of 2000 psi.
  - i. Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
  - j. Verify that all connections are secure before operating the unit.
  - k. Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.
4. **WARNING – To reduce the risk of injury:**
  - a. Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
  - b. Do not operate or spray near children. Keep children away from equipment at all times.
  - c. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
  - d. Stay alert and watch what you are doing.
  - e. Do not operate the unit when fatigued or under the influence of drugs or alcohol.

## Work Area

1. **Keep the work area clean and well lighted.**  
Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
2. **Operate only in a well-ventilated area.**  
Paint thinners and solvents may be harmful if inhaled.
3. **Do not operate the sprayer in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.**  
The sprayer is able to create sparks resulting in the ignition of the dust or fumes.
4. **Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.

## Electrical Safety

1. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
2. **Do not expose sprayers to rain or wet conditions.** Water entering a sprayer will increase the risk of electric shock.

SAFETY

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**SAFETY**

## Personal Safety

1. **Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.**  
A moment of inattention while operating the tool increases the risk of injury to persons.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.**  
Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
3. **Avoid unintentional starting. Be sure the trigger is off before connecting to the power supply.** Do not carry the sprayer with your finger on the trigger or connect the sprayer to the power supply with the trigger on.
4. **Do not overreach. Keep proper footing and balance at all times.**  
Proper footing and balance enables better control of the tool in unexpected situations.
5.  **Use safety equipment.**  
Wear protective paint spraying gloves and a NIOSH-approved respirator during use.  
Non-skid safety shoes and a hard hat must be used for the applicable conditions.
6.  **Always wear eye protection.**  
Wear ANSI-approved safety goggles.

**SETUP**

## Tool Use and Care

1. **Do not force the tool. Use the correct tool for the application.** The correct tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the sprayer if the switch does not turn it on and off.** Any sprayer that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the tool from the power source before making any adjustments, changing accessories, or storing the tool.**  
Such preventive safety measures reduce the risk of starting the tool unintentionally.
4. **Store the tool when it is idle out of reach of children and other untrained persons.**  
A tool is dangerous in the hands of untrained users.
5. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
6. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.


**OPERATION**

## Service

1. **Tool service must be performed only by qualified repair personnel.**
2. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**
3. **Use only lubricants supplied with the tool or specified by the manufacturer.**

**MAINTENANCE**

## Specific Safety Instructions

1.  **INJECTION HAZARD!**  
Although this paint gun is airless, it still puts out paint at a very high pressure. Through improper use, paint can be injected through a person's skin, leading to serious injury, possibly amputation. If paint is accidentally injected into someone's skin, contact a doctor immediately. Do not treat an injection injury as a simple cut. Injection can lead to amputation and requires immediate surgical treatment.
2. **Do not direct spray at people or animals. Do not place your hand in front of Spray Gun's nozzle or attempt to deflect paint spray with your hand during use.** Gloves and clothing don't offer adequate protection from toxic paints, sealers, or stains.
3. **Do not spray flammable materials in vicinity of open flame or near ignition sources.** Motors, electrical equipment, and controls can cause electrical arcs that will ignite a flammable gas or vapor. Do not store flammable liquids or gases in vicinity of this unit.
4. **Do not leave Paint Sprayer pressurized while unattended.**
5. **Keep the trigger and battery clean and paint-free.**
6. **Do not run Paint Sprayer while empty.** Damage to the unit may occur.
7. **Do not use Paint Sprayer to spray asbestos, metallic paints, glazes, red lead, cement, ground chalk, abrasive gray paints containing lime, or bleach.** These will damage the spray gun and void the warranty.
8. Read all of the information concerning coating products and cleaning solvents. Do NOT use bleach, low-flash naphthalene, acetone, alcohol or toluene when cleaning Paint Sprayer equipment.
9. **Do not use bleach or halogenated hydrocarbon solvents (DCM, 1,1,1-trichloroethane, methyl bromine, carbon tetrachloride, and ethyl iodide).** Long term exposure to many chlorinated hydrocarbons through inhalation can result in liver and kidney toxicity. Exposure of unprotected skin to the solvents used can cause defatting of the skin resulting in dermatitis. Methylene chloride and vinyl chloride have also been shown to be human carcinogens. Some of these solvents are flammable. Welding operations near these materials can create phosgene, a highly toxic gas.
10. **Many spray guns contain aluminum, which reacts strongly to chlorinated solvents.** Contact the solvent or coating manufacturer as needed regarding potential chemical reactions.
11. Industrial applications must follow OSHA requirements.
12. Spraying hazardous materials may result in serious injury or death. Do not spray pesticide, acid, corrosive material, fertilizer, or toxic chemicals.
13. Paints and solvents may be harmful or fatal if swallowed or inhaled. Avoid prolonged skin contact with solvents or paints as they will irritate skin. After any contact, immediately wash off exposed area with hot, soapy water.
14. When flushing Paint Sprayer system, use lowest possible pressure setting.
15. All spray gun accessories used with Paint Sprayer must be pressure rated at or above 2000 PSI.
16. Use caution while spraying on windy days.
17. Do not use Paint Sprayer without the Spray Gun's nozzle guard in place.
18. Paint Sprayer's housing may become hot during use. Do not touch housing until it has completely cooled.
19. Remove Spray Tip or turn to cleaning position BEFORE cleaning or flushing Paint Sprayer system.
20. Do not use pliers to tighten or loosen high pressure connections.

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if Sprayer is not properly cleaned and lubricated immediately after every use.


**Clean and lubricate Sprayer immediately to prevent permanent damage.**

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21.  **Sparks from improper grounding can ignite fumes!**  
Follow all local regulations regarding the use of fluid supply containers and solvent pails used with flushing the Paint Sprayer. Use only conductive metal pails placed on a grounded (concrete) surface. Do not place pails on nonconductive surfaces (such as cardboard or paper). Ground all metal pails by clamping one end of a ground wire to the pail and the other end to a grounded structure (such as a nearby pipe). Maintain grounding, even when flushing or relieving pressure from Paint Sprayer into metal pail. The force of the spray can knock a metal pail over, so hold down the metal pail and keep the metal part of the spray gun set against the grounded metal pail when pressing the spray gun trigger.
22. Maintain labels and nameplates on the sprayer. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
23. 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.

## Battery tool use and care

1. 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.
2. 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.
3. 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.
4. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
5. 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.
6. 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.
7. 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.
8. Do not expose a battery pack or power tool to fire or excessive temperature. Exposure to fire or temperature above 265°F may cause explosion.
9. 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.
10. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
11. Do not modify or attempt to repair the power tool or the battery pack except as indicated in the instructions for use and care.
12.  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.

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## 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:**
  - Open,
  - Drop,
  - Short-circuit,
  - Puncture,
  - Incinerate, or
  - Expose to temperatures greater than 265°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.



**SAVE THESE INSTRUCTIONS.**

## 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.

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## Symbology

Symbol	Property or Statement
<b>V</b>	Volts
<b>— — —</b>	Direct Current
<b>A</b>	Amperes
<b>PSI</b>	Pounds per square inch of pressure
<b>CFM</b>	Cubic Feet per Minute flow
<b>SCFM</b>	Cubic Feet per Minute flow at standard conditions
<b>NPT</b>	National pipe thread, tapered
<b>NPS</b>	National pipe thread, straight

Symbol	Property or Statement
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved respirator.
	WARNING marking concerning Risk of Explosion.
	WARNING marking concerning Risk of Injection Injury. Do not direct spray at hands or body. Have injection injury treated immediately.
	WARNING marking concerning Risk of Fire. Do not use solvents improperly.

## Specifications

Maximum Working Pressure	2000 PSI
Battery (Sold Separately)	Bauer 20V Li-Ion 64816
Charger (Sold Separately)	Bauer 20V Li-Ion 57006

TIP CHART	
Tip Size	Material Type
312	Thin to Medium Viscosity
514	Medium to Thick Viscosity



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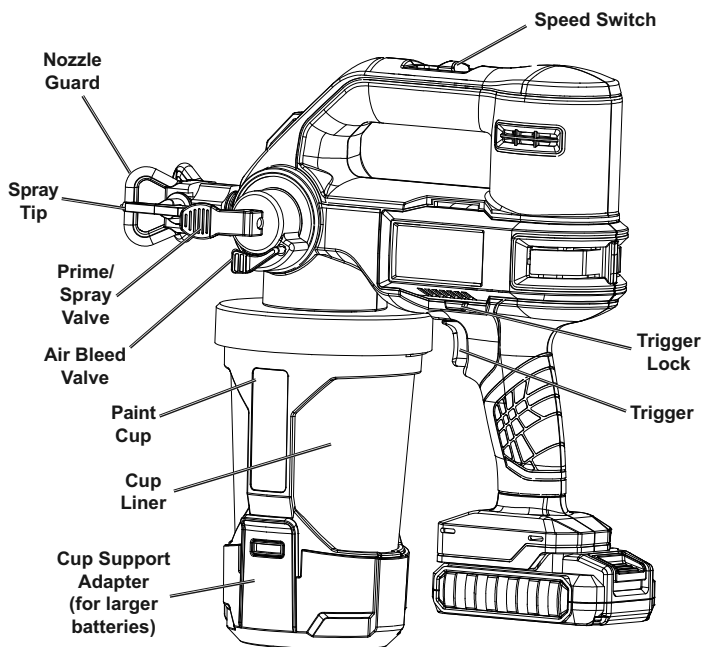
## Setup – Before Use



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.

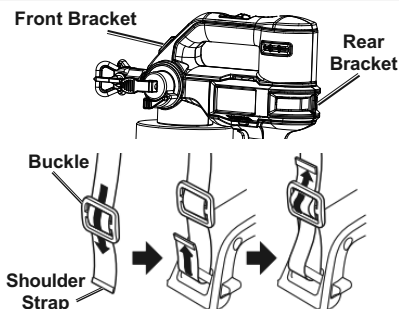
**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

## Components and Controls



## Connecting Shoulder Strap

1. Feed one end of Strap through the Front Bracket and then through the Buckle.
2. Feed the other end of Strap through the Rear Bracket and then through the Buckle, pulling Strap until the desired length is achieved.



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## 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.



### INJECTION HAZARD!

Although this paint gun is airless, it still puts out paint at a very high pressure. Through improper use, paint can be injected through a person's skin, leading to serious injury, possibly amputation. If paint is accidentally injected into someone's skin, contact a doctor immediately. Do not treat an injection injury as a simple cut. Injection can lead to amputation and requires immediate surgical treatment. Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

## Charging

Charge battery after unpacking and before using this tool. Follow instructions included with battery charger.

## Lock/Unlock Trigger

**WARNING! TO PREVENT SERIOUS INJURY: Risk of Injection**  
- Set Trigger Lock when Spray Gun not in use.

1. Push Trigger Lock to the right to lock Trigger.
2. Push Trigger Lock to the left to unlock Trigger.



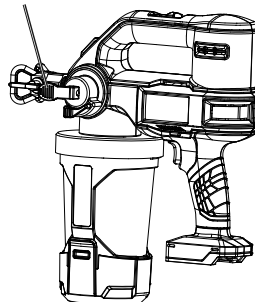
## Depressurize Sprayer

**WARNING! TO PREVENT SERIOUS INJURY: Risk of Injection** - Unit maintains pressure after shut-down - Before servicing, cleaning, or removing any part, shut off power and relieve pressure.

Refer to this section when instructed to depressurize sprayer.

1. Lock Trigger.
2. Remove Battery.
3. Open **Prime/Spray Valve**.
4. Close **Prime/Spray Valve**.

Prime/Spray Valve



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## **⚠ WARNING**

### **TO PREVENT SERIOUS INJURY:**

Do not spray flammable or combustible liquids in a confined area. Spray area must be well ventilated. Do not smoke while spraying or spray where sparks or flame is present.

Do not use bleach or halogenated hydrocarbon solvents (DCM, 1,1,1-trichloroethane, methyl bromine, carbon tetrachloride, and ethyl iodide). Long term exposure to many chlorinated hydrocarbons through inhalation can result in liver and kidney toxicity. Exposure of unprotected skin to the solvents used can cause defatting of the skin resulting in dermatitis. Methylene chloride and vinyl chloride have also been shown to be human carcinogens. Some of these solvents are flammable. Welding operations near these materials can create phosgene, a highly toxic gas.

Wear ANSI-approved safety goggles, NIOSH-approved respirator, and heavy-duty work gloves during use.

## **Before First Use - Pre-Cleaning**

**WARNING! TO PREVENT SERIOUS INJURY:** Only water-based materials or materials with a minimum flash point of 38°C (100°F) should be used for spraying and cleaning. Only use mineral spirits for pre-cleaning.

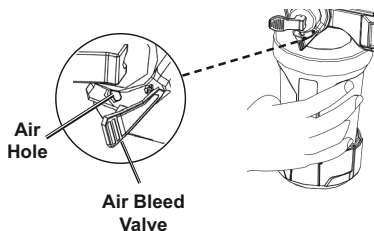
Fluid used to test Sprayer before shipping must be flushed out before first use.

1. Lock Trigger and remove battery.

**WARNING! TO PREVENT SERIOUS INJURY: TO PREVENT FIRE:** When using mineral spirits, use only conductive metal pails placed on a grounded (concrete) surface. **DO NOT** use plastic containers.

**CAUTION!** To prevent high pressure solvent or paint splatter, remove Nozzle Guard and Spray Tip.

- Designate 1 gallon container for waste.
- Remove Paint Cup.
- Insert clean Cup Liner.
- Fill Cup Liner a quarter-full with mineral spirits.
- Replace Paint Cup.
- Open **Air Bleed Valve**, squeeze Liner until reservoir inside Air Hole is filled with mineral spirits.



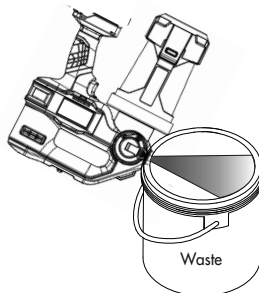
- Close **Air Bleed Valve**.
- Attach battery and unlock Trigger.

### **10. Prime:**

- Open **Prime/Spray Valve**.
- Turn Sprayer upside-down, press Trigger for 2 seconds.
- Close **Prime/Spray Valve**.

### **11. Clean Sprayer:**

- Turn Sprayer upside-down, pointing into waste container, press Trigger until solvent is gone. **Hold Spray Valve against edge of grounded metal waste container to ground Spray Gun.**



- Refill Cup Liner with solvent and repeat cleaning process as necessary until solvent is clear.
- Lock Trigger and remove battery.
- Remove Paint Cup and let parts dry completely.

**NOTE:** *Dispose of solvent, paint and waste according to local hazardous waste standards.*

**SAFETY**

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**OPERATION**

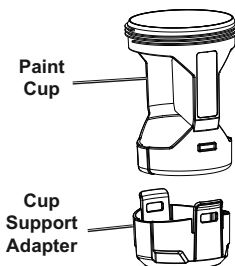
**MAINTENANCE**

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## Cup Support Adapter

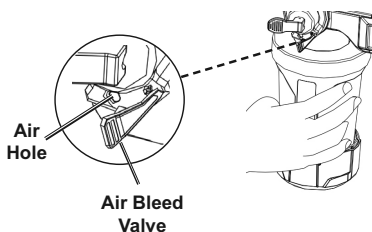
To prevent tipping when using large battery, attach Cup Support Adapter to bottom of Paint Cup.



## Filling Paint Cup

**WARNING! TO PREVENT SERIOUS INJURY:** Only water-based materials or materials with a minimum flash point of 38°C (100°F) should be used for spraying and cleaning. Only use water or mineral spirits for cleaning. Only use water-based or oil-based paint for spraying.

1. Remove Paint Cup and insert clean Cup Liner.
2. Pour paint into Cup Liner.
3. Replace Paint Cup, tighten securely.
4. Open **Air Bleed Valve**, squeeze Liner until reservoir inside Air Hole is filled with paint.
5. Close **Air Bleed Valve**.



6. Spray according to *Spraying on page 13*.

**NOTE:** *Dispose of solvent, paint and waste according to local hazardous waste standards.*

# **Bauer**<sup>TM</sup>

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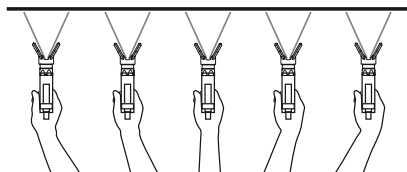
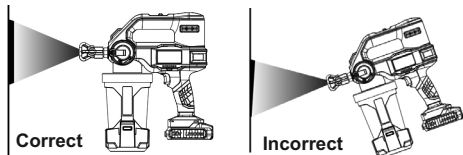
**Clean and lubricate Sprayer immediately to prevent permanent damage.**

## Spraying

**WARNING! TO PREVENT SERIOUS INJURY:** Only water-based materials or materials with a minimum flash point of 38°C (100°F) should be used for spraying and cleaning. Only use water or mineral spirits for cleaning. Only use water-based or oil-based paint for spraying.

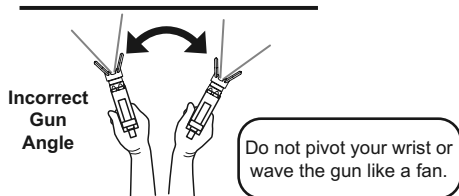
### Proper Spraying Techniques

Keep the Spray Gun upright and at a right angle to the workpiece.



#### Correct Gun Angle

Move your arm, not just your wrist. Point gun directly towards the surface and maintain an even, steady distance and speed.



### To Avoid Paint Build Up:

Apply two thin coats rather than one thick coat. Overlap 1/3 to 1/2 on second coat.

Start moving the Spray Gun before fully depressing Trigger.

Fully depress Trigger before contacting the workpiece.

When finished with the stroke, release the Trigger while still moving the Spray Gun and after passing the workpiece.

**Note:** Remove or cover objects to protect from overspray and paint mist.

1. Attach Nozzle Guard and Spray Tip according to ***Spray Tip and Nozzle Guard on page 17.***
2. Lock Trigger
3. Attach battery.
4. Set Speed Switch to I for low pressure or II for high pressure.
5. Open **Prime/Spray Valve**, press Trigger for 3 seconds to prime Sprayer.
6. Close **Prime/Spray Valve**.

**Note:** Practice painting techniques on a scrap workpiece.

7. Point Spray Gun:
  - a. 514 Tip: 10" - 12" away from workpiece.
  - b. 312 Tip: 8" - 10" away from workpiece.
8. Unlock and press Trigger fully, spraying following "**Proper Spraying Techniques**" and "**To Avoid Paint Build Up**".
9. If no paint comes out, unplug Sprayer and remove air according to ***Filling Paint Cup, 4 & 5 on page 12.***
10. When finished spraying, clean and lubricate immediately according to ***After Every Use - Cleaning on page 14.***

### Clearing Spray Tip Blockage

- a. Lock Trigger.
- b. Open **Prime/Spray Valve**.
- c. Reverse **Spray Tip** to **CLEAN** position.
- d. Close **Prime/Spray Valve**.
- e. Unlock Trigger and spray on scrap workpiece.
- f. Release and lock Trigger.
- g. Reverse **Spray Tip** to **SPRAY** position.

**Note:** If Spray Tip won't clear, replace according to ***Spray Tip and Nozzle Guard on page 17.***

**NOTE:** *Dispose of solvent, paint and waste according to local hazardous waste standards.*

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**RETURNS NOT ACCEPTED & WARRANTY VOID**  
if Sprayer is not properly cleaned and lubricated immediately after every use.

**Clean and lubricate Sprayer immediately to prevent permanent damage.**

## Accessories and Replacement Parts

### Accessories

Accessories are available at Harbor Freight stores and at <http://www.harborfreight.com>.

Storage Fluid

Cup Liner

312 Spray Tip

Nozzle Guard

514 Spray Tip

### Repair and Service Parts

Parts are available by calling 1-888-866-5797 or emailing [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com).

Prime/Spray Valve Repair Kit

Paint Filter

Outlet Repair Kit

Air Bleed Valve

Cup Support Adaptor

### User-Maintenance Instructions

## After Every Use - Cleaning

**WARNING! TO PREVENT SERIOUS INJURY:** Only water-based materials or materials with a minimum flash point of 38°C (100°F) should be used for spraying and cleaning. Only use water or mineral spirits for cleaning. Only use water-based or oil-based paint for spraying.

1. Lock Trigger and remove battery.

**Note:** Cup Liner may be cleaned and reused.

2. Depressurize Sprayer according to  
*Depressurize Sprayer on page 10.*

7. Fill Cup Liner half-full with appropriate solvent.

8. Replace Paint Cup.

**WARNING! TO PREVENT SERIOUS INJURY: TO PREVENT FIRE:** When using mineral spirits, use only conductive metal pails placed on a grounded (concrete) surface. **DO NOT** use plastic containers.

9. Open **Air Bleed Valve**, squeeze Liner until reservoir inside Air Hole is filled with solvent.

10. Close **Air Bleed Valve**.

3. Designate 1 gallon container for waste.

11. Shake Sprayer for 10 seconds.

4. Remove Paint Cup, wipe excess paint from Paint Cup cover.

12. Attach battery and unlock Trigger.

5. Pour excess paint back into paint container.

13. **Prime:**

a. Open **Prime/Spray Valve**.

6. Remove used Cup Liner and insert clean Cup Liner.

b. Turn Sprayer upside-down, press Trigger for 2 seconds.

c. Close **Prime/Spray Valve**.

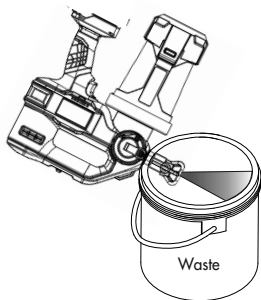
# **Bauer**<sup>TM</sup>

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**Clean and lubricate Sprayer immediately to prevent permanent damage.**

**14. Clean Spray Tip:**

- Turn Sprayer upside-down, pointing at interior side of waste container, press Trigger for 5 seconds.
- Reverse **Spray Tip** to **CLEAN** position.
- Turn Sprayer upside-down, pointing at interior side of waste container, press Trigger for 5 seconds. **Hold Spray Valve against edge of grounded metal waste container to ground Spray Gun.**

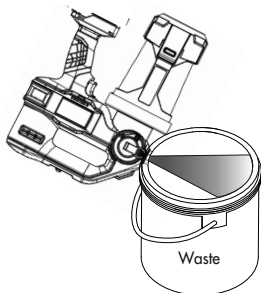


**15. Lock Trigger and remove battery.**

- 16. Remove Nozzle Guard, Spray Tip and Seal according to *Spray Tip and Nozzle Guard on page 17* and place in container of appropriate solvent.**

**17. Clean Sprayer:**

- Attach battery and unlock Trigger.
- Turn Sprayer upside-down, pointing into waste container, press Trigger until solvent is gone. **Hold Spray Valve against edge of grounded metal waste container to ground Spray Gun.**



- Refill Cup Liner with solvent and repeat cleaning process as necessary until solvent is clear.
- Lock Trigger and remove battery.
- Remove Paint Cup, then remove Filter from Paint Cup cover. Place Filter in container of solvent.
- Remove Prime/Spray and Air Bleed Valves. Place valves in container of solvent.
- Let Sprayer parts dry completely.

**18. Clean Accessories:**

- Using included brush and cleaning tool, scrub accessories until clean.
- Let accessories dry completely.
- Reassemble Sprayer.

**19. Insert clean Cup Liner.**

- Lubricate:**
- Pour 1 oz. of Storage Fluid into Cup Liner.
- Replace Paint Cup.
- Attach battery and unlock Trigger.
- Open **Prime/Spray Valve**.
- Turn Sprayer upside-down, press Trigger for 2 seconds.
- Close **Prime/Spray Valve**.

**20. Lock Trigger and remove battery.**

- 21. Store Sprayer indoors out of reach of children. Store battery and charger according to battery's instruction manual.**

***NOTE: After storage, dispose of Storage Fluid according to local hazardous waste standards.***

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**Clean and lubricate Sprayer immediately to prevent permanent damage.**

## Maintenance and Lubrication



Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **WARNING**

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**

Disconnect battery before performing any inspection or maintenance procedures.

**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:** Do not use damaged equipment.

If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

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. Li-Ion BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.  
Do not short, incinerate or open battery.
3. **AFTER EVERY USE**, clean and lubricate, then wipe external surfaces of the tool with clean cloth.
4. Store in clean dry location out of reach of children.



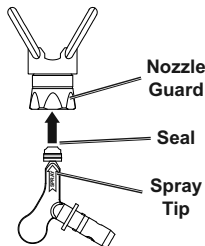
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**Clean and lubricate Sprayer immediately to prevent permanent damage.**

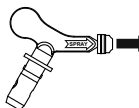
## Spray Tip and Nozzle Guard

### Attach

1. Seat Seal on end of Spray Tip, then insert Seal into back of Nozzle Guard.

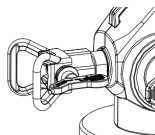


2. Insert Spray Tip, then rotate a full turn to align Seal.

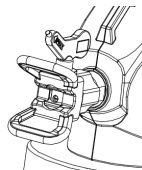


3. Remove Tip, then thread Nozzle Guard onto Spray Gun. Turn nut by hand until almost tight, then holding nut and Nozzle Guard together, tighten completely. Do not overtighten.

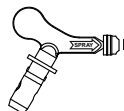
- Attach horizontally for horizontal spray pattern.



- Attach vertically for vertical spray pattern.

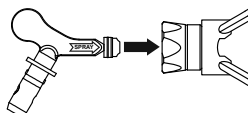


4. Install Tip into Nozzle Guard, then rotate until **SPRAY** end is facing forward.



### Remove

1. **During operation:** Remove Spray Tip from Nozzle Guard, then remove Nozzle Guard from Spray Gun.
2. **During cleaning or changing tip size:** Remove Spray Tip from Nozzle Guard, then remove Nozzle Guard from Spray Gun. Insert Spray Tip into front of Nozzle Guard to remove Seal.



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## Troubleshooting

Problem	Possible Causes	Likely Solutions
Decreased output.	1. Obstructed Trigger. 2. Obstructed Filter.	1. Clean around Trigger to ensure movement. 2. Clean or replace Filter.
No Output	1. Inlet Valve stuck.  2. Sprayer not primed. 3. Clogged Spray Tip. 4. Multiple Liners in Paint Cup. 5. Paint Cup loose. 6. Prime/Spray Valve open. 7. Spray Tip in Clean position. 8. Not enough paint. 9. Air in Liner.	1. Unplug Sprayer, remove Cup and Filter. Turn Sprayer upside down and use Cleaning Tool to loosen Inlet Valve (Part 30 on Parts List and Diagram). 2. Prime Sprayer. 3. Clean Spray Tip with included cleaning tool. 4. Use only one Liner in Cup Holder. 5. Tighten Paint Cup. 6. Close Prime/Spray Valve. 7. Reverse Spray Tip to Spray position. 8. Add paint. 9. Remove air according to <b>4 on page 12</b> .
Nothing happens when Trigger squeezed	Dead Battery.	Recharge or replace Battery.
Inconsistent paint flow, blobs and splatters.	1. Clogged or worn Spray Tip. 2. Incorrect sized Spray Tip. 3. Clogged Filter. 4. Incorrect Speed. 5. Moving Sprayer too fast. 6. Paint too thick. 7. Contaminated paint. 8. Air in Liner.	1. Clean or replace Spray Tip. 2. Use different sized Spray Tip. 3. Clean or replace Filter. 4. Adjust speed. 5. Move Sprayer slower. 6. Thin paint following manufacturer's directions. 7. Clean Sprayer and replace paint. 8. Remove air according to <b>4 on page 12</b> .
Paint surface is bumpy or has orange peel texture.	1. Incorrect paint volume. 2. Sprayer too far from workpiece.	1. Adjust Speed. 2. Hold Sprayer closer to workpiece.

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Problem	Possible Causes	Likely Solutions
Paint sags or runs.	<ol style="list-style-type: none"><li>1. Paint applied too thick.</li><li>2. Sprayer too close to workpiece.</li><li>3. Uneven or hesitant motion of spray gun.</li><li>4. Excess overlapping of each spray stroke.</li></ol>	<ol style="list-style-type: none"><li>1. Apply thinner coats, allowing paint to dry between coats.</li><li>2. Hold Sprayer further away from workpiece.</li><li>3. Keep spray gun moving.</li><li>4. Apply two thin coats rather than one thick coat. Overlap 1/3 to 1/2 on second coat.</li></ol>
Blotchy surface (blushing) or uneven color.	<ol style="list-style-type: none"><li>1. Uneven paint application.</li><li>2. Work material absorbs paint unevenly.</li></ol>	<ol style="list-style-type: none"><li>1. Start each stroke off the work material and overlap each stroke consistently.</li><li>2. Use a conditioner or sealer coat before applying the finish coat.</li></ol>
Spots on surface with light center (fish eyes).	<ol style="list-style-type: none"><li>1. Improper primer or incompatible surface.</li><li>2. Surface contamination.</li></ol>	<ol style="list-style-type: none"><li>1. Check manufacturer's recommendations for primer or compatible surfaces.</li><li>2. Clean workpiece thoroughly.</li></ol>
Spots on surface with dark center (contamination).	<ol style="list-style-type: none"><li>1. Surface contamination.</li><li>2. Insufficiently sanded workpiece.</li><li>3. Raised grain.</li></ol>	<ol style="list-style-type: none"><li>1. Clean workpiece thoroughly.</li><li>2. Sand workpiece to a sufficiently fine grit before painting.</li><li>3. Wipe workpiece with thinner to raise grain, then sand with fine grit to knock off "hairs".</li></ol>

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## PLEASE READ THE FOLLOWING CAREFULLY

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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

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**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. Specify UPC 193175440938 when ordering parts.

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## Parts List and Diagram

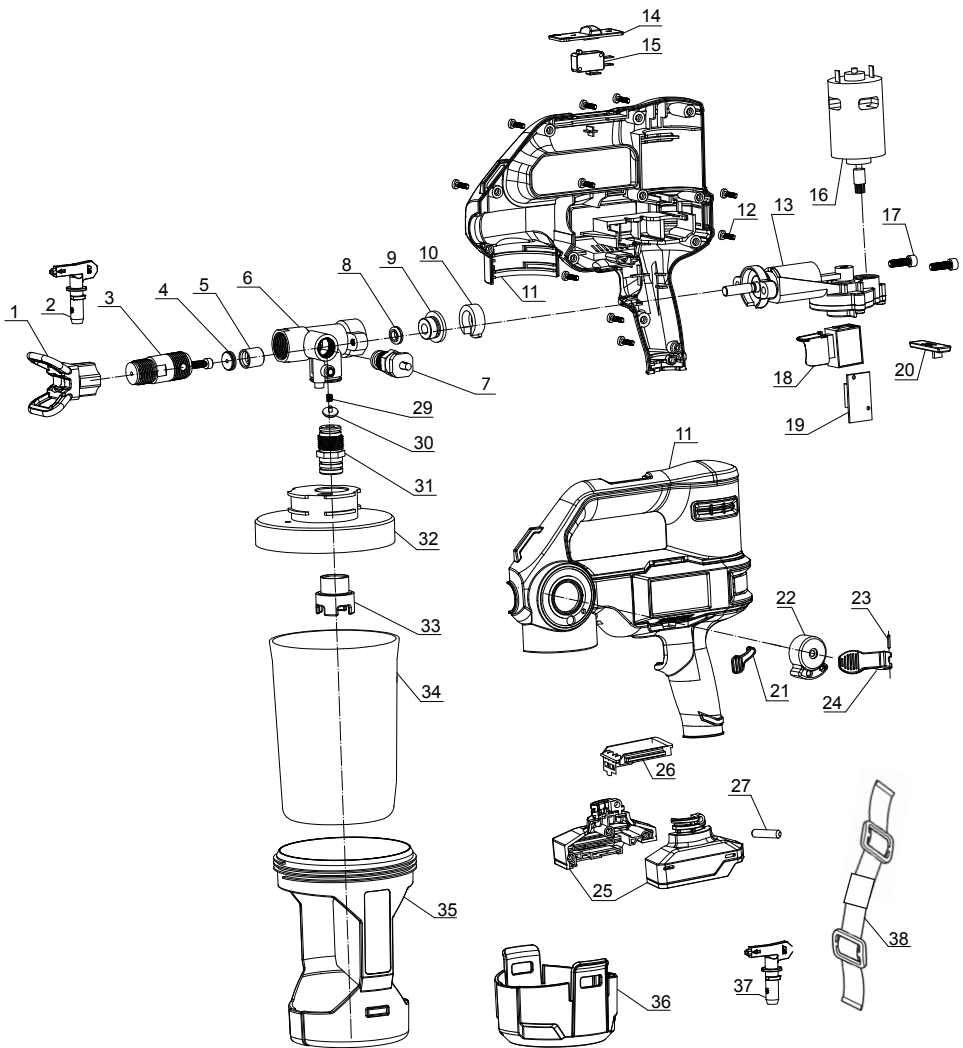
### Parts List

Part	Description	Qty
1	Nozzle Guard	1
2	514 Spray Tip	1
3	Spray Valve	1
4	Retainer	1
5	Sleeve	1
6	Pump Junction	1
7	Pressure Valve	1
8	Seal Ring	1
9	Stop Collar	1
10	Spacing Shim	1
11	Housing	2
12	Screw	10
13	Reduction Gearbox Assembly	1
14	Speed Switch Cover	1
15	Speed Switch	1
16	Motor	1
17	Screw	2
18	Trigger	1
19	PCB	1

Part	Description	Qty
20	Trigger Lock	1
21	Air Bleed Valve	1
22	Cover	1
23	Pin	1
24	Prime/Spray Valve	1
25	Battery Dock	2
26	Battery Clamp	1
27	Pin	1
29	Spring	1
30	Inlet Valve	1
31	Feed Valve Seat Assembly	1
32	Cup Lid	1
33	Paint Filter	1
34	Cup Liner	4
35	Paint Cup	1
36	Cup Support Adapter	1
37	312 Spray Tip	1
38	Shoulder Strap	1

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## Assembly Diagram



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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. The letters are black with a white outline, and a small trademark symbol (TM) is located at the end of the word.

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