OPERATION MANUAL

MANUAL NUMBER X017810 | REVISION C | ENGLISH (US)

Magnum® TRUEAIRLESS® Electric Airless Sprayer

Project Painter Plus, X5, X7

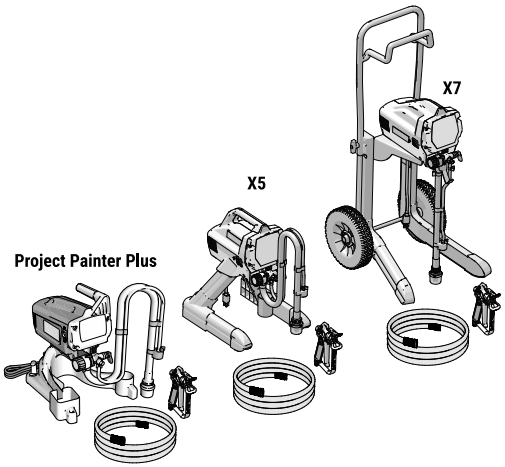
For portable spray applications of water-based and oil-based non-flammable architectural paints and coatings only. Not approved for use in explosive atmospheres or hazardous (classified) locations.

Important Safety Instructions

Read all warnings and instructions in this manual, related manuals, and on the unit. Be familiar with the proper controls and the proper usage of the equipment. Save these instructions.

Important Medical Information

Read the medical alert card provided with the gun. It contains injection injury treatment information for a doctor. Keep it with you when operating the equipment.



graco.com/contact

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PRODUCT INFORMATION

BEFORE YOU SPRAY

REVIEW WARNINGS FOR IMPORTANT SAFETY INFORMATION

Important! Read carefully and practice good safety habits.

MODELS

The part numbers reflect the distinct features and characteristics of the Magnum® TRUEAIRLESS® Electric Airless Sprayer.

Table 1-1: Magnum TRUEAIRLESS Electric Airless Sprayer Models

MODEL	STAND (SERIES)	CART (SERIES)	VAC	MAXIMUM WORKING PRESSURE	APPROVAL
Project Painter Plus*	257025 (B) CAN257 (B)		120 USA	2800 psi (193 bar, 19.3 MPa)	Intertek 110474 Certified to CAN/CSA C22.2 No. 68 Conforms to UL 1450
X5	262800 (F) 17K437 (B) CAN800 (B)			3000 psi (207 bar, 20.7 MPa)	
X7		262508 (E) CAN805 (B)			

* For household use only

RELATED MANUALS

Additional documents are available to support the Magnum® TRUEAIRLESS® Electric Airless Sprayer. Find English manuals and any available translations at www.graco.com.

Table 1-2: Related Manuals for Magnum TRUEAIRLESS Electric Airless Sprayer Operation Manual

ENGLISH MANUAL	DESCRIPTION
X049139	Replacement Kits for Magnum, Instruction
X049555	SG2™, SG3™ Spray Guns, Instruction

TRANSLATED MANUALS

Translations for the Magnum® TRUEAIRLESS® Electric Airless Sprayer are available at www.graco.com by searching for manual number X017810.

The following translations are available: English, French, and Spanish.

IMPORTANT USER INFORMATION

This sprayer is designed to provide superior spray performance with water-based and oil-based (mineral spirit-type) architectural paints and coatings. This user information is intended to help you understand the types of materials that can be used with your sprayer.

Please read the information on the material container label to determine if it can be used with your sprayer. Ask for a Safety Data Sheet (SDS) from your supplier. The container label and SDS will explain the contents of the material and the specific precautions related to it.

Paints, coatings, and clean-up materials generally fit into one of the following three basic categories:

	**WATER-BASED:** The container label should indicate that the material can be cleaned up with soap and water. Your sprayer is compatible with this type of material. Your sprayer is **NOT** compatible with harsh cleaners such as chlorine bleach.
	**OIL-BASED:** The container label should indicate that the material is COMBUSTIBLE and can be cleaned up with mineral spirits or paint thinner. The SDS must indicate that the flash point of the material is above 100°F. Your sprayer is compatible with this type of material. Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air. See the safety warnings in this manual.
	**FLAMMABLE:** This type of material contains flammable solvents such as xylene, toluene, naphtha, MEK, lacquer thinner, acetone, denatured alcohol, and turpentine. The container label should indicate that this material is FLAMMABLE. This type of material is **NOT** compatible with your sprayer and **CANNOT** be used.

NOTICE

Your sprayer is **NOT** compatible with harsh cleaners such as chlorine bleach. Using these cleaners will cause damage to the sprayer.

CALIFORNIA PROPOSITION 65

CALIFORNIA RESIDENTS

WARNING Cancer and reproductive harm — www.P65warnings.ca.gov.

SAFETY SYMBOLS

The following safety symbols appear throughout this manual and on warning labels. Read the table below to understand what each symbol means.

SYMBOL	MEANING
	Electric Shock Hazard
	Equipment Misuse Hazard
	Fire and Explosion Hazard
	Moving Parts Hazard
	Skin Injection Hazard
	Skin Injection Hazard
	Splatter Hazard
	Toxic Fluid or Fumes Hazard
	Do Not Place Hands or Other Body Parts Near Fluid Outlet

SYMBOL	MEANING
	Do Not Put Hand in Front of Spray Tip
	Do Not Stop Leaks with Hand, Body, Glove or Rag
	Eliminate Ignition Sources
	Follow Pressure Relief Procedure
	Ground Equipment
	Read Manual
	Ventilate Work Area
	Wear Personal Protective Equipment



Safety Alert Symbol

This symbol indicates: Attention! Become Alert! Look for this symbol throughout the manual to indicate important safety messages.

The following warnings apply throughout this manual. Read, understand, and follow the warnings before using this equipment. Failure to follow these warnings can result in serious injury.

⚠ WARNING



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, **in work area** can ignite or explode. To help prevent fire and explosion:

- Do not spray or clean with materials having flash points lower than 100°F (38°C). Use only non-flammable or water-based materials, or non-flammable paint thinners. For complete information about your material, request the Safety Data Sheets (SDSs) from the material distributor or retailer.
- Do not spray combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- 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 the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use Graco conductive and grounded high-pressure airless paint sprayer hoses.
- Verify that all containers and collection systems are grounded to prevent static discharge. Do not use pail liners unless they are anti-static or conductive.
- Connect to a grounded outlet and use grounded extension cords. Do not use a 3-to-2 adapter.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.
- Sprayer generates sparks. Keep pump assembly in a well-ventilated area at least 20 feet (6.1 m) from the spray area when spraying, flushing, cleaning, or servicing. Do not spray pump assembly.
- **Stop operation immediately** if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Do not smoke in the spray area or spray where sparks or flame are present.
- Do not operate light switches, engines, or similar spark-producing products in the spray area.
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- Know the contents of the paints and solvents being sprayed. Read all Safety Data Sheets (SDSs) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- Keep a working fire extinguisher in the work area.

⚠ WARNING



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power cord before servicing equipment.
- Connect only to grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.
- Only use an authorized service center to replace a damaged power cord.



SKIN INJECTION HAZARD

High-pressure spray is able to inject toxins into the body and cause serious injury that can result in amputation. In the event that injection occurs, **get immediate surgical treatment.**

- Do not aim the gun at, or spray, any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the spray tip guard. Do not spray without spray tip guard in place.
- Use Graco spray tips.
- Use caution when cleaning and changing spray tips. In the case where the spray tip clogs while spraying, follow the **Pressure Relief Procedure** for turning off the unit and relieving the pressure before removing the spray tip to clean.
- Equipment maintains pressure after power is turned off. Do not leave the equipment energized or under pressure while unattended. Follow the **Pressure Relief Procedure** when the equipment is unattended or not in use, and before servicing, cleaning, or removing parts.
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- This system is capable of producing 3000 psi (207 bar, 20.7 MPa). Use Graco parts or accessories that are rated a minimum of 3000 psi (207 bar, 20.7 MPa).
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.

⚠ WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
- Do not operate or spray near children. Keep children away from equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not kink or overbend the hose.
- Route hoses, fluid lines, cords, and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not expose the hose to temperatures or to pressures in excess of those specified by Graco.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not spray with a hose shorter than 25 feet (7.6 m).
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Do not use chlorine bleach.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.



MOVING PARTS HAZARD

Moving parts can pinch, cut, or amputate fingers and other body parts.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** and disconnect all power sources.

⚠ WARNING



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read Safety Data Sheets (SDSs) to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:

- Protective eyewear and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

WARNING LABELS, TAGS, AND CARDS ARE AVAILABLE AT NO COST

PART NUMBER	DESCRIPTION
17K627	Warning Label on Power Cord
15G026	Warning Tag on Airless Hose
179960	Medical Alert Card

TECHNICAL SPECIFICATIONS

The table provides information related to the Magnum® TRUEAIRLESS® Electric Airless Sprayer, including product attributes, measurements, and performance characteristics that support the use of the equipment.

Table 4-1: Technical Specifications for Magnum TRUEAIRLESS Electric Airless Sprayer.

	US	METRIC
Maximum fluid working pressure		
Project Painter Plus	2800 psi	193 bar, 19.3 MPa
X5, X7	3000 psi	207 bar, 20.7 MPa
Maximum delivery		
Project Painter Plus	0.24 gpm	0.91 lpm
X5	0.27 gpm	1 lpm
X7	0.31 gpm	1.2 lpm
Maximum Spray Tip size		
Project Painter Plus, X5	0.015 in.	0.38 mm
X7	0.017 in.	0.43 mm
Fluid outlet NPSM	1/4 in.	
Generator minimum	2500 W	
Power requirements	110–120 V, 9 A, 1Ø	
Dimensions		
Height		
Project Painter Plus	13.8 in.	35.1 cm
X5	17.9 in.	45.5 cm
X7	37 in.	94 cm
Length		
Project Painter Plus	13.8 in.	35.1 cm
X5	14.5 in.	36.8 cm
X7	19.3 in.	49 cm
Width		

	US	METRIC
Project Painter Plus	12.1 in.	30.7 cm
X5	12.4 in.	31.5 cm
X7	15.3 in.	38.9 cm
Weight		
Project Painter Plus	13.2 lb	5.9 kg
X5	16.5 lb	7.5 kg
X7	26.5 lb	12 kg
Storage temperature range ◆ ❖	–30° to 160°F	–35° to 71°C
Operating temperature range ✔	40° to 115°F	4° to 46°C
Materials of Construction		
Wetted materials on all models	Stainless steel, brass, leather, ultra-high molecular weight polyethylene (UHMWPE), carbide, nylon, aluminum, PVC, polypropylene, fluoroelastomer, plated steel	
Notes		

** Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.*

◆ When pump is stored with non-freezing fluid, pump damage will occur if water or latex paint freezes in pump.

❖ Damage to plastic parts may result if impact occurs in low temperature conditions.

✔ Changes in paint viscosity at very low or very high temperatures can affect sprayer performance.

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The diagram highlights the controls and features on the Magnum® TRUEAIRLESS® Electric Airless Sprayer that are used during typical operation.

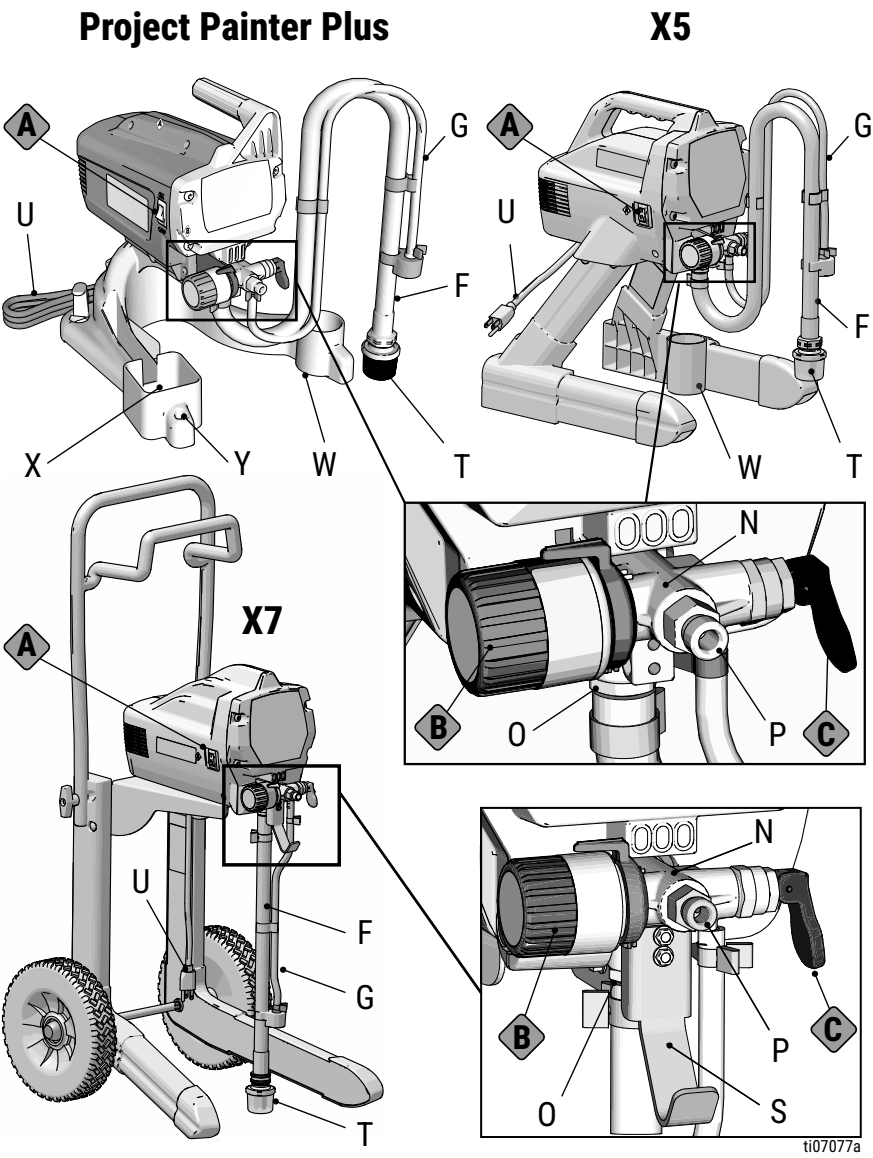


Figure 5-1: Project Painter Plus, X5, and X7 Diagram

GUN AND HOSE

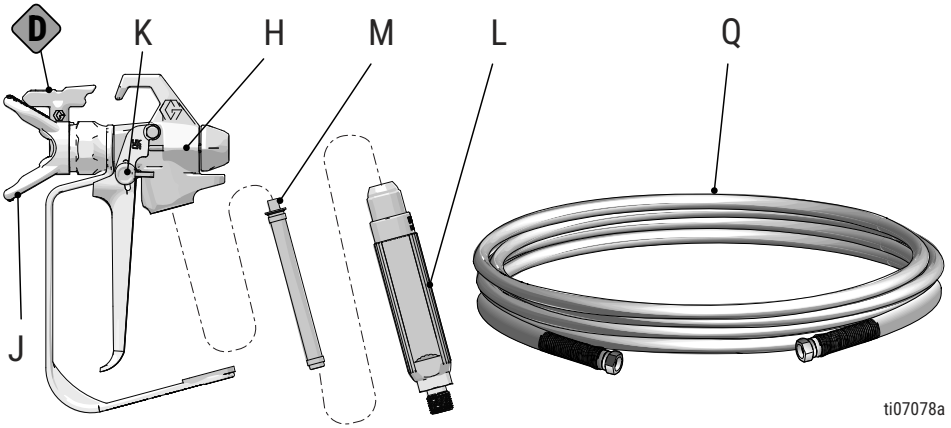
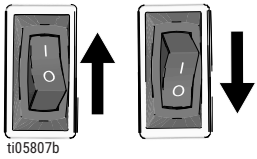
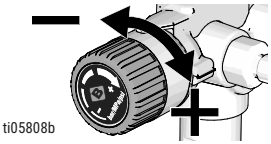
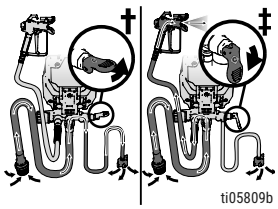
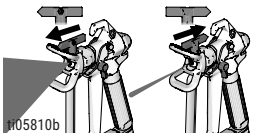


Figure 5-2: Gun and Hose Diagram

	NAME	DESCRIPTION
A	Power - ON/OFF Switch  ti05807b	Turns the main power to the sprayer ON and OFF. ↑ ON ↓ OFF
B	Pressure Control Knob  ti05808b	Increases (clockwise) and decreases (counterclockwise) the fluid pressure in the Pump, Airless Hose, and Spray Gun. To select function, align the symbol on the Pressure Control Knob with the setting indicator.
C	Prime/Spray Valve  ti05809b	• The PRIME position directs fluid to the Drain Tube. • The SPRAY position directs pressurized fluid to the paint hose and Spray Gun. • Automatically relieves system pressure in overpressure situations. Your Spray Gun will not spray if there is air in the system. It is necessary to prime the Pump, Airless Hose, and Spray Gun any time air enters the Suction Tube. † PRIME, Fill Pump (Prime Pump) ‡ SPRAY, Fill Gun and Hose

	NAME	DESCRIPTION
D	Spray Tip 	• Atomizes fluid being sprayed, forms spray pattern, and controls fluid flow according to hole size. • Reverse position unclogs plugged Spray Tips without disassembly.
F	Suction Tube	Draws fluid from the paint pail into the Pump.
G	Drain Tube	Drains fluid in the system during priming and pressure relief.
H	Spray Gun	Dispenses fluid.
J	Tip Guard	Reduces risk of fluid injection injury.
K	Gun Trigger Lock	Prevents accidental triggering of the Spray Gun.
L	Gun Fitting	Threaded connection for the paint hose.
M	Gun Filter (inside handle)	Filters fluid entering the Spray Gun to reduce Spray Tip clogs.
N	Pump	Pumps and pressurizes fluid and delivers it to the paint hose.
O	Inlet Valve	Allows paint to flow from the paint bucket into the sprayer.
P	Outlet Valve (airless hose connection)	Threaded connection for the Airless Hose. Allows paint to flow from the sprayer to the Spray Gun.
Q	Airless Hose	Transports high-pressure fluid from the Pump to the Spray Gun.
S	Pail Hanger	For transporting the pail by its handle.
T	Inlet Screen	Prevents debris from entering the Pump.
U	Power Cord	Plugs into the power source.
W	Suction Tube Drip Cup	Holds the Suction Tube during transport to catch drips.
	Power Flush Valve	Connects the garden hose to the Suction Tube for power flushing water-based fluids. See **Clean with Power Flush Valve (Water-based materials only)**.
Model/Serial Tag (Not Shown, located on the bottom of the unit)		

Ground the Magnum® TRUEAIRLESS® Electric Airless Sprayer as instructed to help ensure proper operation.

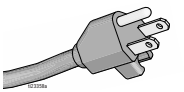
⚠ WARNING



The equipment must be grounded to reduce the risk of static sparking. Electric or static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current. To avoid static sparking and electric shock:

- Only connect the sprayer to an outlet having the same configuration as the plug.
- Do not modify the plug provided. If it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- Do not use a 3-to-2 adapter with this sprayer.

This sprayer is equipped with a cord having a grounding wire with an appropriate grounding plug. This sprayer is for use on a nominal 120 V circuit and has a grounding plug similar to the plug illustrated in the figure. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and regulations.



Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the sprayer is properly grounded.

⚠ WARNING



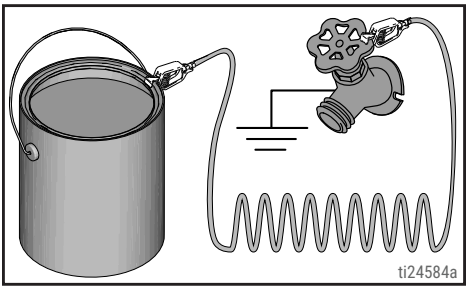
Improper installation of the grounding plug is able to result in a risk of electric shock. When repairing or replacing the cord or plug, do not connect the grounding wire to either power terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Always use a metal pail for oil-based materials when the sprayer is flushed or pressure is relieved.

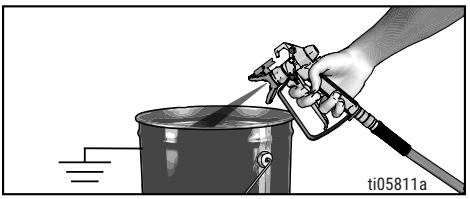
Follow local code. Use only conductive metal pails placed on a grounded surface such as concrete.

Do not place a pail on a non-conductive surface such as paper or cardboard, which interrupts grounding continuity.

Always ground a metal pail: Connect a ground wire to the pail. Clamp one end to the pail and the other end to a true earth ground such as a water pipe.



To maintain ground continuity when sprayer is flushed or pressure is relieved: Hold a metal part of the Airless Spray Gun firmly to the side of a grounded metal pail, then trigger the Airless Spray Gun.



EXTENSION CORDS

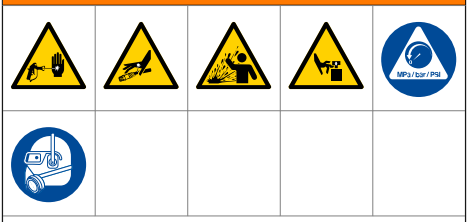
- Use only a 3-wire extension cord that has a grounding plug and a grounding receptacle that accepts the plug on the product.
- Make sure the extension cord is not damaged.
- If an extension cord is necessary, use 12 AWG (2.5 mm^2) minimum to carry the current that the sprayer draws. An undersized cord results in a drop in line voltage and loss of power and overheating.

Relieve pressure on the Magnum® TRUEAIRLESS® Electric Airless Sprayer when operation is stopped, and before cleaning, checking, or servicing the equipment.



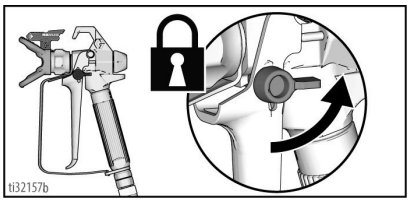
Follow the Pressure Relief Procedure whenever you see this symbol.

⚠ WARNING

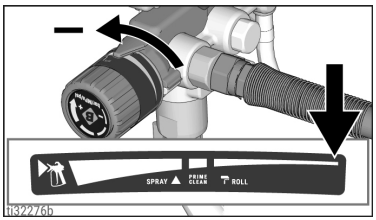


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

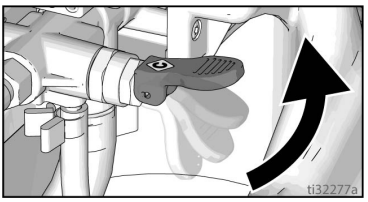
1. Turn the ON/OFF Switch to **OFF**.
2. Engage the Gun Trigger Lock. Always engage the Gun Trigger Lock when the sprayer is stopped to prevent the Spray Gun from being triggered accidentally.



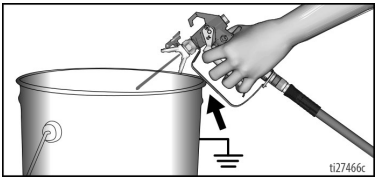
3. Turn the Pressure Control Knob to the lowest setting.



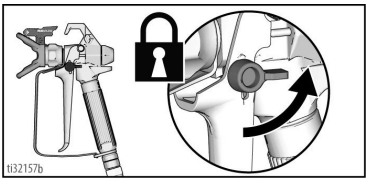
4. Put the Drain Tube into a waste pail and lift the Prime/Spray Valve into the Prime position to relieve pressure.



5. Hold the Spray Gun firmly to a pail. Point the Spray Gun into a pail. Disengage the Gun Trigger Lock and trigger the Spray Gun to relieve pressure.



6. Engage the Gun Trigger Lock.



7. If you suspect that pressure has not been fully relieved, see **Blockages**.

NOTE:

Leave the Prime/Spray Valve in the Prime position until you are ready to spray.

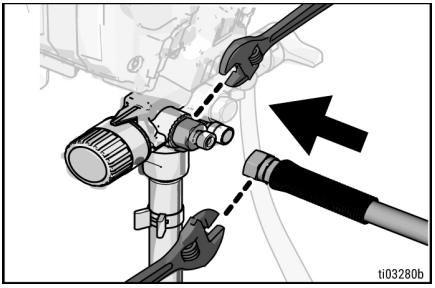
When using the equipment for the first time or after long-term storage, follow the steps to prepare the Magnum® TRUEAIRLESS® Electric Airless Sprayer for operation.

ASSEMBLE YOUR SPRAYER

1. Thread the Airless Hose onto the Outlet Valve on the sprayer and hand-tighten. Use two wrenches to fully tighten the Airless Hose onto the sprayer.

NOTICE

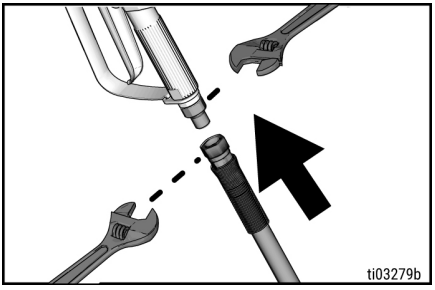
To avoid a leak or damage to the sealing surface, ensure the fitting is fully tightened.



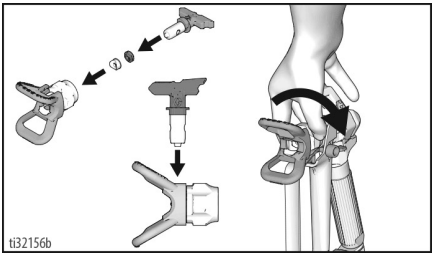
2. Connect the other end of the Airless Hose to the Spray Gun. Use two wrenches to tighten securely to the Spray Gun.

NOTE:

If the Airless Hose is already connected, ensure the connections are tight.



3. Ensure the Spray Tip is properly inserted into the Tip Guard, and the Tip Guard assembly is tightened securely to Spray gun. See **Install Spray Tip**.

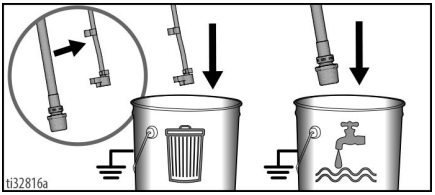


Follow the instructions to prepare the Magnum® TRUEAIRLESS® Electric Airless Sprayer for operation.

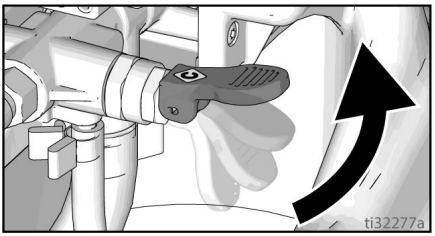
FLUSH STORAGE FLUID

You must flush storage fluid from the sprayer before using it.

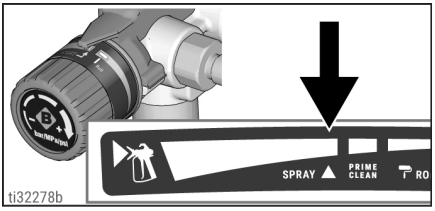
1. Ensure the ON/OFF Switch is **OFF**.
2. Separate the Drain Tube (smaller) from the Suction Tube (larger). Place the Drain Tube into a waste pail.
3. Submerge the Suction Tube into a pail filled with water if spraying water-based material, or mineral spirits if spraying oil-based material.



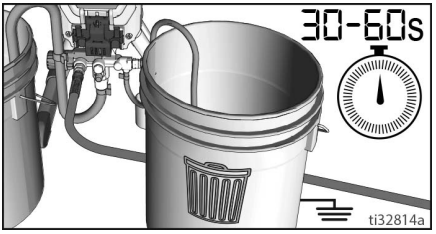
4. Lift the Prime/Spray Valve into the Prime position.



5. Plug the Power Cord into a properly grounded electrical outlet.
6. Align the setting indicator with the START setting on the Pressure Control Knob.



7. Turn the ON/OFF Switch to **ON**.
8. When the sprayer starts pumping, flushing fluid will flow up the Suction Tube and out the Drain Tube. Allow fluid to flow out of the Drain Tube, into a waste pail, for 30 to 60 seconds.



9. Turn the ON/OFF Switch to **OFF**.

NOTE:

If flushing fluid fails to come out of the Drain Tube, see **Storage/Priming Tool**.

STRAIN THE PAINT

Use disposable paint strainer bags to remove coarse particles and debris from new or previously opened paint or stain. These bags are available where paint is sold. To avoid priming problems and Spray Tip clogs, strain all paints and stains before spraying.

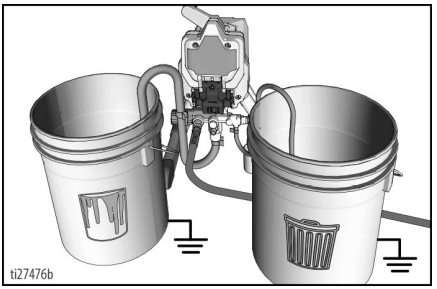


FILL PUMP (PRIME PUMP)

The Prime/Spray Valve directs the fluid to either the Drain Tube or the Airless Hose and Spray Gun. The Prime/Spray Valve primes the sprayer. Priming evacuates air out of the Pump, Airless Hose, and Spray Gun.

Your Spray Gun will not spray if there is air in the system. You must prime the Pump, Airless Hose, and Spray Gun any time air enters the Suction Tube.

1. Move the Suction Tube to a paint pail and submerge the Suction Tube in the paint.



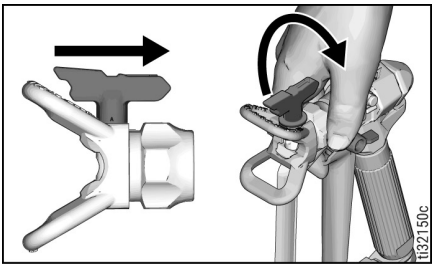
2. Turn the ON/OFF Switch to **ON**.
3. Wait to see paint coming out of the Drain Tube.
4. Turn the ON/OFF Switch to **OFF**.

NOTE:

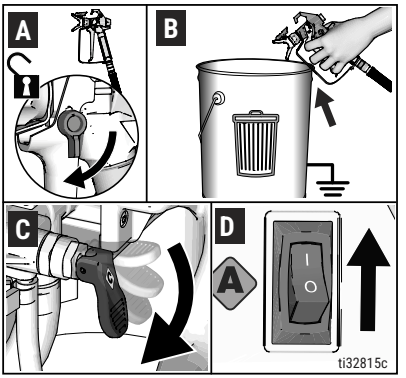
If paint does not flow up the Suction Tube and out the Drain Tube, flush the sprayer using the **Flush Storage Fluid** procedure.

FILL GUN AND HOSE

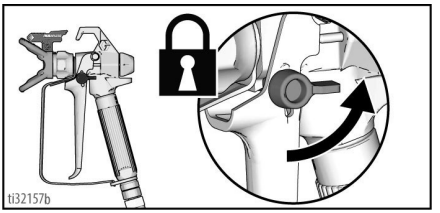
1. Rotate the Spray Tip to the unclog position and ensure the Tip Guard is tight.



2. Hold the Spray Gun against a waste pail. Point the Airless Spray Gun into the waste pail.
   a. Disengage the Gun Trigger Lock.
   b. Pull and hold the Spray Gun trigger.
   c. Lower the Prime/Spray Valve to the Spray position.
   d. Turn the ON/OFF Switch to **ON** (D).



3. Trigger the Spray Gun into a waste pail until only paint comes out of the Spray Gun.
4. Release the trigger. Engage the Gun Trigger Lock.



⚠ WARNING

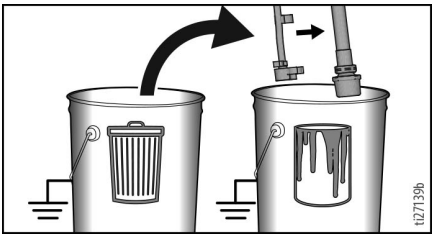


High-pressure spray is able to inject toxins into the body and cause serious bodily injury. Do not stop leaks with hand or rag.

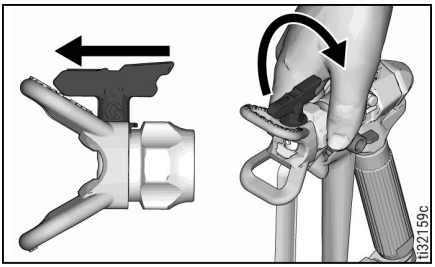
NOTE:

Inspect for leaks. If leaking occurs, perform the **Pressure Relief Procedure**, then tighten all fittings and repeat **Fill Pump (Prime Pump)**.

5. Transfer the Drain Tube to a paint pail and clip to the Suction Tube.



6. Rotate the Spray Tip back to the Spray position and ensure the Tip Guard is tight.



YOU ARE NOW READY TO SPRAY!

NOTE:

It is normal for the motor to stop once the sprayer is primed and under pressure. If the motor continues to run, the sprayer is not primed. Repeat the **Fill Pump (Prime Pump)** and **Fill Gun and Hose** procedures.

REFILLING PAINT PAIL

When a paint pail runs low and the Spray Gun stops spraying, refill a paint pail and repeat the **Fill Pump (Prime Pump)** procedure, then the **Fill Gun and Hose** procedure.

BLOCKAGES

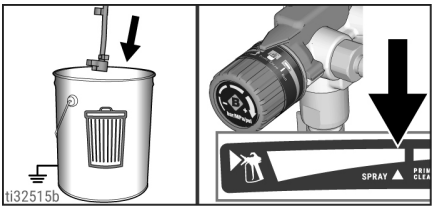
If the paint does not come out of the Spray Gun, or if you have performed the pressure relief procedure and suspect pressure has not been fully relieved:

1. Perform the **Pressure Relief Procedure**.
2. Using a wrench, VERY SLOWLY loosen the Airless Hose connection to the Spray Gun and disconnect the Airless Hose from the Spray Gun.
3. Lower the Prime/Spray Valve to the Spray position.
4. While holding the Airless Hose firmly, point the end of the Airless Hose into a paint pail and turn the ON/OFF Switch to **ON**.
   a. If fluid does not flow out of the Airless Hose, replace the Airless Hose and continue to step 4.
   b. If fluid flows out of the Airless Hose, see **Clean the Gun and Gun Filter**.
5. Reassemble the Airless Hose and Spray Gun, and repeat **Fill Gun and Hose**.

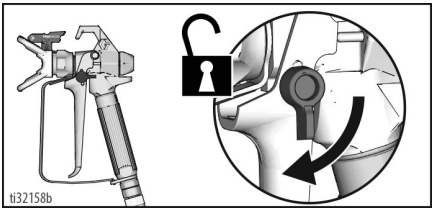


START

1. Turn the Pressure Control Knob to the START position.



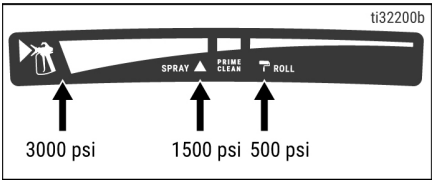
2. Disengage the Gun Trigger Lock.



ADJUST PRESSURE CONTROL

To select a setting, align the symbol on the Pressure Control Knob with the setting indicator on the sprayer.

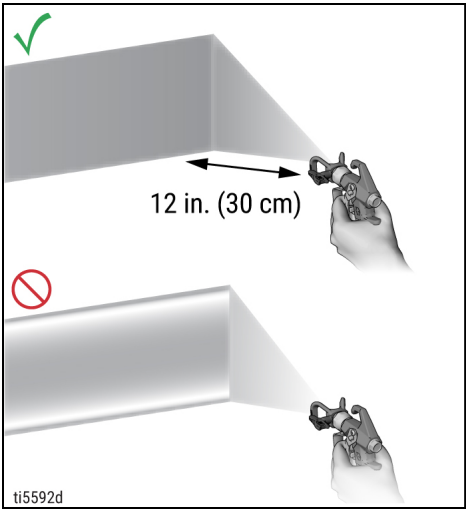
1. For best spray results with the lowest overspray, adjust the Pressure Control Knob to the START setting.
2. Test the spray pattern on a test area or piece of cardboard.
3. If needed, increase the Pressure Control Knob setting to the minimum setting that results in an acceptable spray pattern.



SPRAY PATTERN QUALITY

A good spray pattern is evenly distributed as it hits the surface.

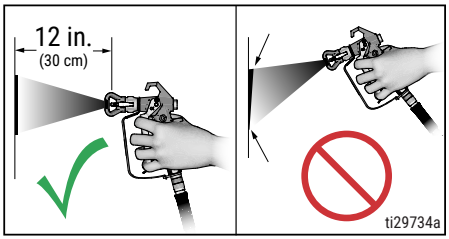
- The spray should be atomized (evenly distributed, no gaps at the edges).
- Increase the Pressure Control Knob setting if needed until the spray is even and without gaps at the edges.
- The Spray Tip may be worn or a smaller Spray Tip may be needed. See **Select Spray Tip and Pressure**.
- The material may need to be thinned. If the material needs to be thinned, follow the manufacturer's recommendations.



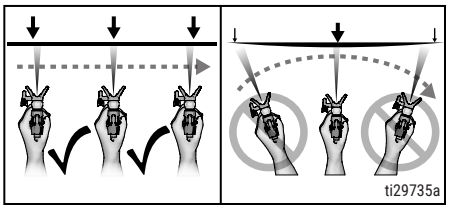
SPRAY TECHNIQUES

Use a piece of scrap cardboard to practice these basic spraying techniques before you begin spraying the surface.

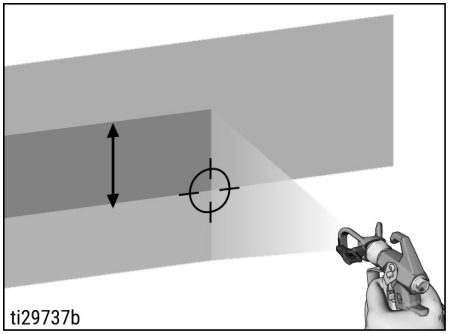
- Hold the Spray Gun 12 in. (30 cm) from the surface and aim straight at the surface. Tilting the Spray Gun to direct the spray angle causes an uneven finish.



- Flex your wrist to keep the Spray Gun pointed straight. Fanning the Spray Gun to direct the spray angle causes uneven finish.



- Pull the trigger after starting stroke. Release the trigger before the end of stroke. The Spray Gun must be moving when the trigger is pulled and released.
- Aim the center of the Spray Gun at the bottom edge of the previous stroke, overlapping each stroke by half.

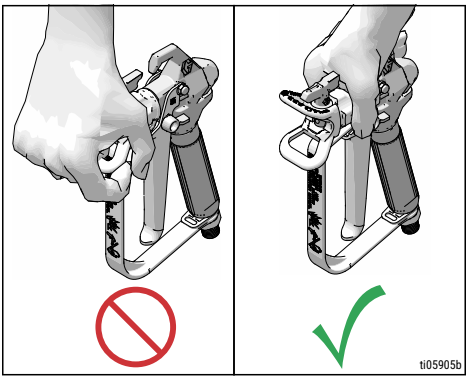


ALIGN SPRAY PATTERN

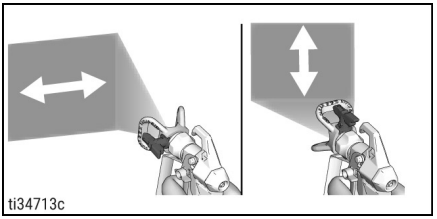
⚠ WARNING



To avoid serious injury from skin injection do not put your hand in front of the Spray Tip when aligning the spray pattern.



1. Relieve the pressure. Perform the **Pressure Relief Procedure**. Engage the Gun Trigger Lock.
2. Align the guard horizontally to spray a horizontal pattern.
3. Align the guard vertically to spray a vertical pattern.



SELECT SPRAY TIP AND PRESSURE

Spray Tips come in a variety of sizes for spraying a wide range of materials. Your sprayer includes a 515 Spray Tip for use with most paints on large surfaces such as walls and ceilings. If you are spraying stain or need a different spray fan width, refer to the Spray Tip chart below to select the best Spray Tip for your project. Additional Spray Tip sizes are available where paint sprayers are sold.

1. What material are you spraying?
   - The thicker the material, the larger the Spray Tip size you will need.
2. What spray fan width is needed for your project?
   - Narrow spray fan for smaller projects.
   - Wider spray fan for larger projects.
3. Confirm your sprayer can be used with your Spray Tip size.

Tip Number Calculation:

- The first digit is half of the fan width (#5 x 2 = 10 in. fan width).
- The last two digits are the size of the Spray Tip opening in thousandths of an inch.



1 Material	2 Fan Width					3 Sprayer Compatibility Each Sprayer Supports a Maximum Spray Tip Size
	4 in.	6 in.	8 in.	10 in.	12 in.	
Stain and Sealer	209	309				Project Painter Plus, X5, X7
	211	311	411			Project Painter Plus, X5, X7
Semi Transparent Stain	211	311	411			Project Painter Plus, X5, X7
		313	413			Project Painter Plus, X5, X7
Solid Stain	211	311	411			Project Painter Plus, X5, X7
		313	413			Project Painter Plus, X5, X7
Interior Paint/ Primer		315	415			Project Painter Plus, X5, X7
			417	517		X7
Exterior Paint/ Primer			415	515		Project Painter Plus, X5, X7
			417	517		X7

- As you spray, the Spray Tip wears and as a result, the hole size gets larger. Starting with a Spray Tip hole size smaller than the maximum will allow you to spray longer within the compatibility of the sprayer.
- Spray Tips wear with use and need periodic replacement.

CLEAR SPRAY TIP CLOG

⚠ WARNING

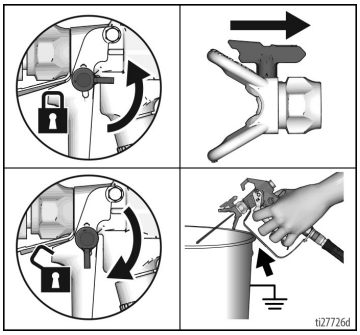


To avoid injury, never point gun at your hand or into a rag.

If particles or debris clog the Spray Tip, the Spray Tip can be reversed to quickly and easily clear particles without disassembling the sprayer.

See **Strain the Paint** for additional information.

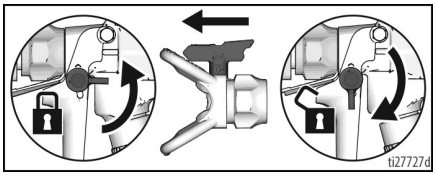
1. Engage the Gun Trigger Lock. Rotate the Spray Tip to the unclog position. Ensure the Spray Tip remains fully seated, pushed all the way into the Spray Tip Guard. Disengage the Gun Trigger Lock. Trigger the Spray Gun at the waste area to clear the clog.



NOTE:

If the Spray Tip is difficult to rotate when turning to the unclog position, perform the **Pressure Relief Procedure** then lower the Prime/Spray Valve to the Spray position and repeat step 1.

2. Engage the Gun Trigger Lock. Rotate the Spray Tip back to the Spray position. Disengage the Gun Trigger Lock and continue spraying.



INSTALL SPRAY TIP

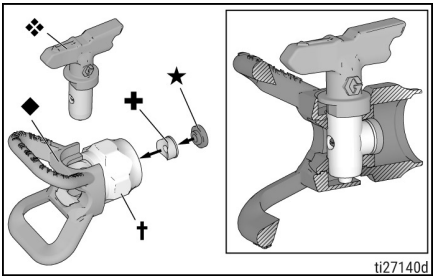
⚠ WARNING



To avoid serious injury from skin injection, do not put your hand in front of the Spray Tip when installing or removing the Spray Tip and Spray Tip Guard.

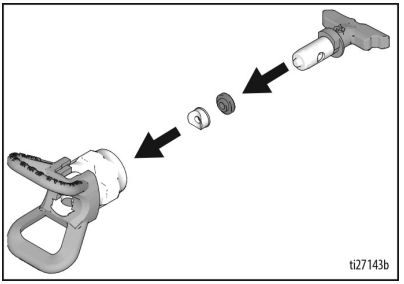
To prevent Spray Tip leaks, properly install the Spray Tip and Tip Guard.

1. Perform the **Pressure Relief Procedure**.
2. Engage the Gun Trigger Lock.
3. Verify the Tip Guard parts are assembled in the order shown.

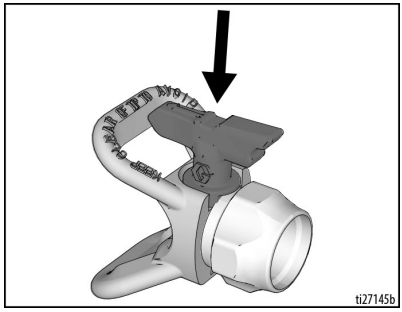


❖ Spray Tip
✚ Metal Seal
◆ Tip Guard
† Retaining Nut
★ Rubber Gasket

a. Use the Spray Tip to align the gasket and seal in the Tip Guard.

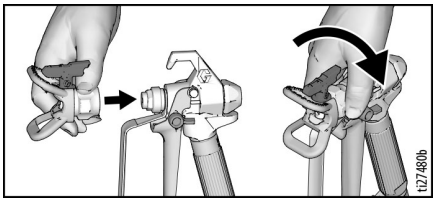


b. The Spray Tip must be pushed all the way into the Tip Guard. Rotate the Spray Tip while pushing down.

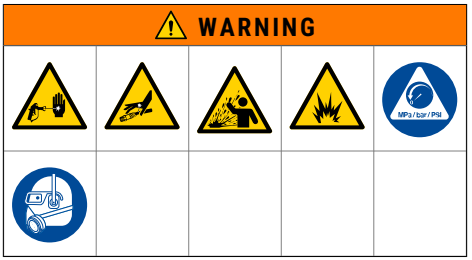


c. Turn the arrow-shaped handle on the Spray Tip forward to the Spray position.

4. Screw the Tip Guard assembly onto the Spray Gun and tighten.



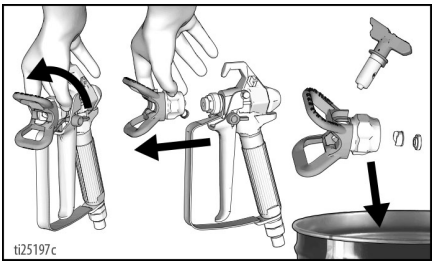
Clean the sprayer after each use for a trouble-free startup the next time you use your sprayer.



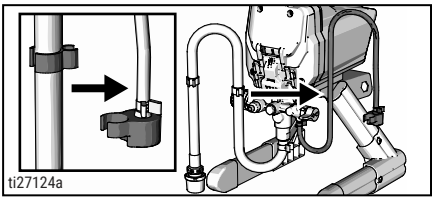
- For short-term shutdown periods (overnight to two days), refer to **Short-Term Storage**.
- For cleanup after using water-based materials only (by use of a garden hose), refer to **Cleanup with Power Flush Valve (Water-based materials only)**.
- See **Cleaning Fluid Compatibility** for information on flushing/cleaning fluids and **Grounding Instructions**.

CLEAN FROM A PAIL

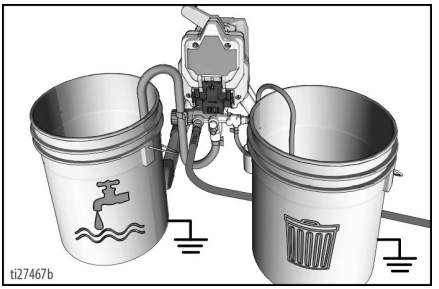
1. Perform the **Pressure Relief Procedure**.
2. Remove the Tip Guard assembly from the Spray Gun and place into a waste pail.



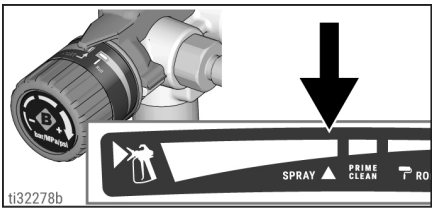
3. Lift the Suction Tube and Drain Tube from a paint pail. Let the paint drain into the pail.
4. Separate the Drain Tube (smaller) from the Suction Tube (larger).



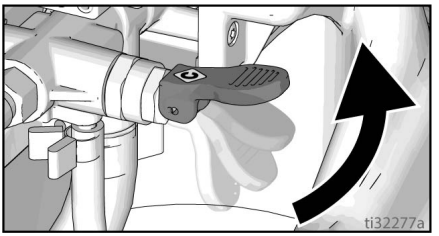
5. Place the empty waste and flushing fluid pails side by side.
6. Place the Suction Tube in the flushing fluid. For water-based paint, use water. For oil-based paint, use mineral spirits, paint thinner, or compatible flushing fluid. Place the Drain Tube in a waste pail.



7. Turn the Pressure Control Knob to the START position.



8. Lift the Prime/Spray Valve to the Prime position.

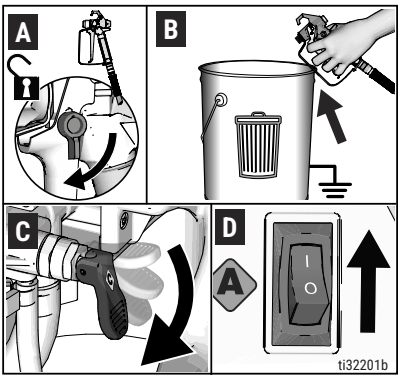


9. Turn the ON/OFF Switch to **ON**.
10. Flush until approximately one-third of the flushing fluid is emptied from a pail.

11. Turn the ON/OFF Switch to **OFF**.

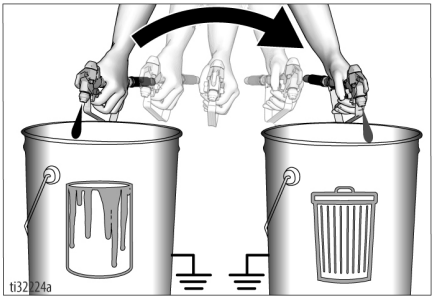
> **NOTE:**
>
> Step 12 is for returning paint in the Airless Hose to a paint pail. One 25 ft (7.6 m) hose holds approximately 1/2 quart (0.5 liter) of paint.

12. To recover paint in the Airless Hose, point the Spray Gun into a paint pail while holding the Spray Gun firmly to a pail.
    a. Disengage the Gun Trigger Lock.
    b. Pull and hold the Spray Gun trigger.
    c. Lower the Prime/Spray Valve to the Spray position.
    d. Turn the ON/OFF Switch to **ON**.

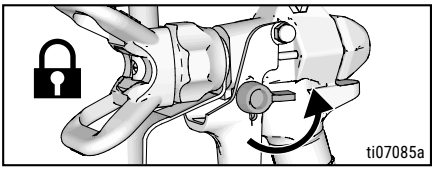


    e. Continue to hold the Spray Gun trigger until you see paint diluted with flushing fluid starting to come out of the Spray Gun.

13. While continuing to trigger the Spray Gun, quickly move the Spray Gun to redirect the spray into a waste pail. Continue triggering the Spray Gun into a waste pail until flushing fluid dispensed from the Spray Gun is relatively clear.



14. Turn the Pressure Control Knob to the lowest setting.
15. Stop triggering the Spray Gun. Engage the Gun Trigger Lock.

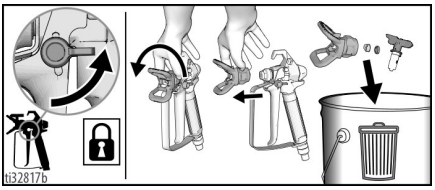


16. Lift the Prime/Spray Valve to the Prime position.
17. Turn the ON/OFF Switch to **OFF**.
18. Follow **Short-Term Storage** or **Long-Term Storage**.

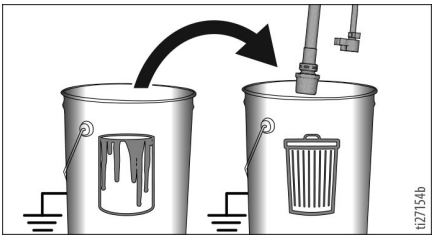
CLEAN WITH POWER FLUSH VALVE (WATER-BASED MATERIALS ONLY)

Power flushing is a faster method of cleanup. It can only be used after spraying water-based coatings.

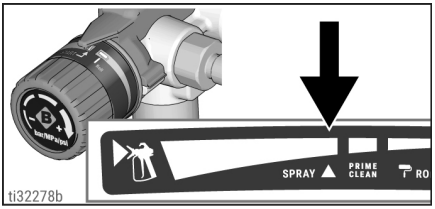
1. Perform the **Pressure Relief Procedure**.
2. Engage the Gun Trigger Lock. Remove the Tip Guard assembly from the Spray Gun and place in a waste pail.



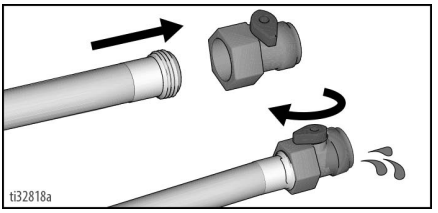
3. Place the empty waste and paint pails side by side.
4. Lift the Suction Tube and Drain Tube from a paint pail. Let the paint drain into the pail.
5. Place the Suction Tube and Drain Tube in a waste pail.



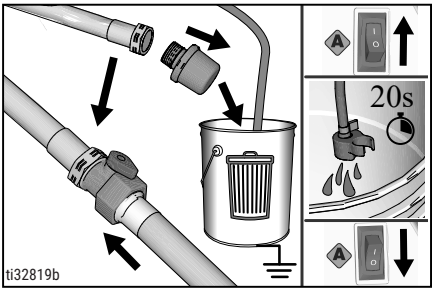
6. Turn the Pressure Control Knob to the START position.



7. Screw the Power Flush Valve (included with sprayer) to the garden hose. Close the Power Flush Valve.
8. Turn on the water. Open the Power Flush Valve. Rinse the paint off the Suction Tube, Drain Tube and Inlet Screen. Close the Power Flush Valve.



9. Unscrew the Inlet Screen from the Suction Tube. Place the Inlet Screen in a waste pail. Connect the garden hose to the Power Flush Valve on the Suction Tube. Leave the Drain Tube in a waste pail.



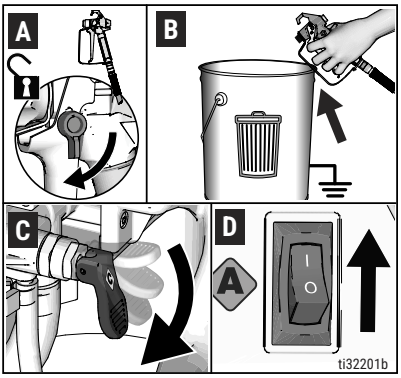
10. Turn the ON/OFF Switch to **ON**.
11. Open the Power Flush Valve.
12. Circulate water through the sprayer, into a waste pail, for 20 seconds.
13. Turn the ON/OFF Switch to **OFF**.

> **NOTE:**
>
> Step 14 is for returning paint in the Airless Hose to a paint pail. One 25 ft (7.6 m) hose holds approximately 1/2 quart (0.5 liter) of paint.

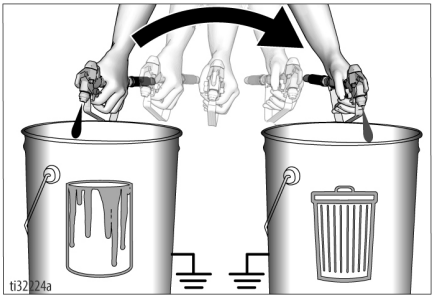
14. To recover paint in the Airless Hose, point the Spray Gun into a paint pail while holding the Spray Gun firmly to a pail.
    a. Disengage the Gun Trigger Lock.
    b. Pull and hold the Spray Gun trigger.
    c. Lower the Prime/Spray Valve to the Spray position.

d. Turn the ON/OFF Switch to **ON**.

e. Continue to hold the Spray Gun trigger until you see paint diluted with flushing fluid starting to come out of the Spray Gun.

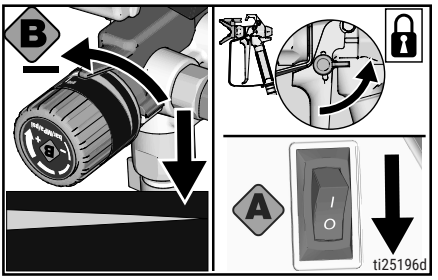


15. While continuing to trigger the Spray Gun, quickly move the Spray Gun to redirect the spray into a waste pail. Continue triggering the Spray Gun into a waste pail until flushing fluid dispensed from the Spray Gun is relatively clear.



16. Turn the Pressure Control Knob to the lowest setting.

17. Stop triggering the Spray Gun. Engage the Gun Trigger Lock.



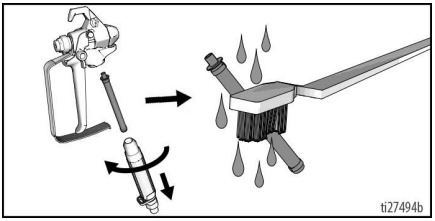
18. Lift the Prime/Spray Valve to the Prime position.

19. Turn the ON/OFF Switch to **OFF**.

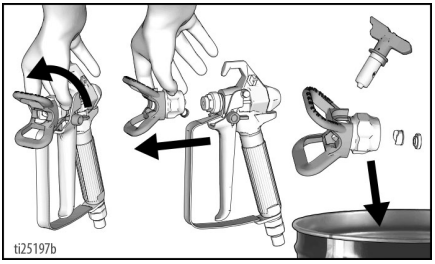
20. Follow **Short-Term Storage** or **Long-Term Storage**.

CLEAN THE GUN AND GUN FILTER

1. Perform the **Pressure Relief Procedure**.
2. Remove the Spray Gun handle by unscrewing the handle from the Spray Gun head.

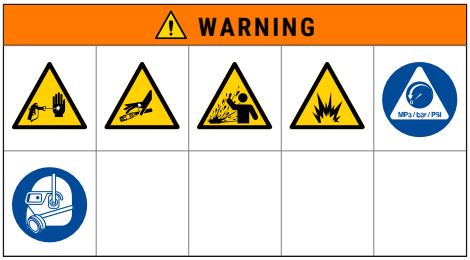


3. Clean the Gun Filter with water or flushing fluid and a brush every time you flush the system. Replace the Gun Filter if damaged.
4. Remove the Tip Guard assembly and clean with water or flushing fluid and a brush.



5. See **Install Spray Tip** to properly reinstall the Tip Guard assembly.
6. Wipe the paint off the outside of the Spray Gun using a soft cloth moistened with water or flushing fluid.

CLEANING FLUID COMPATIBILITY



OIL- OR WATER-BASED MATERIALS

- When spraying **water-based** materials, flush the system thoroughly with water.
- When spraying **oil-based** materials, flush the system thoroughly with mineral spirits or compatible oil-based flushing fluid.
- To spray **water-based** materials **after spraying oil-based** materials, flush the system thoroughly with water first. The water flowing out of the Drain Tube should be clear **before** you begin spraying the water-based material.
- To spray **oil-based** materials **after spraying water-based** materials, flush the system thoroughly with mineral spirits or a compatible oil-based flushing fluid first. The fluid flowing out of the Drain Tube should not contain any water. When flushing with oil-based flushing fluid always follow the **Grounding Instructions**.
- To avoid fluid splashing back on your skin or into your eyes, always aim the Spray Gun at the inside wall of the pail.

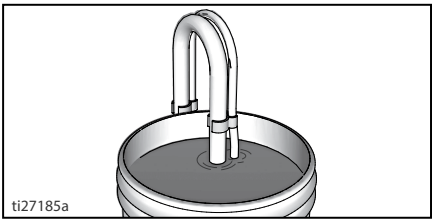
With proper storage, the sprayer will be ready to use the next time it is needed.



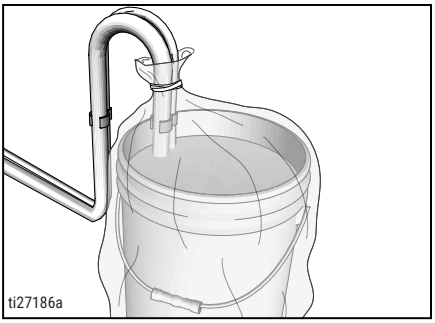
SHORT-TERM STORAGE

(up to 2 days)

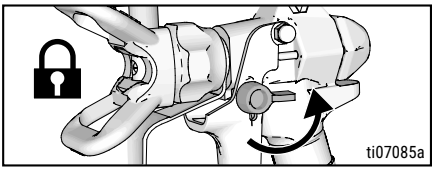
1. Disconnect the power (unplug Power Cord). Perform the **Pressure Relief Procedure**.
2. Leave the Suction Tube and Drain Tube into a paint pail.



3. Cover the paint and pail tightly with plastic wrap.



4. Engage the Gun Trigger Lock.



5. Leave the Spray Gun attached to the Airless Hose.
6. Remove the Spray Tip and Tip Guard and clean with water or flushing fluid and a brush.
7. Wipe the paint off the outside of the Spray Gun using a soft cloth moistened with water or flushing fluid.

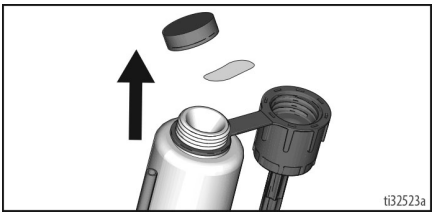
LONG-TERM STORAGE

(more than 2 days)

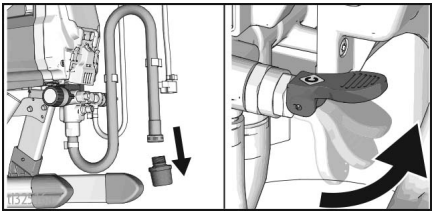
Pump Armor™ fluid protects the sprayer against freezing and corrosion.

- Do not store the sprayer full of water.
- Do not allow water to freeze in the sprayer.
- Do not store the sprayer under pressure.
- Store the sprayer indoors.

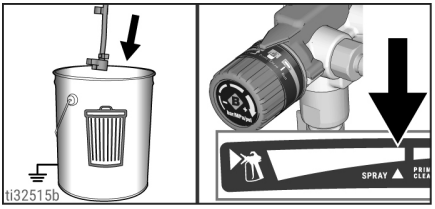
1. Perform the **Cleanup**.
2. Remove the Pump Armor bottle cap and foil seal.



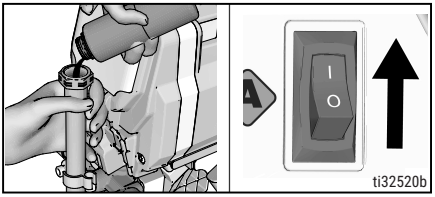
3. If needed, unscrew the Inlet Screen from the Suction Tube. Lift the Prime/Spray Valve to the Prime position.



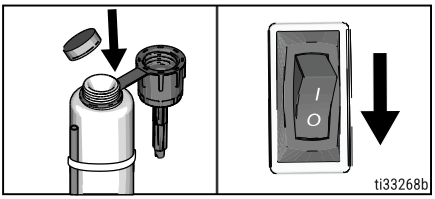
4. Place the Drain Tube into a waste pail. Turn the Pressure Control Knob to the START position.



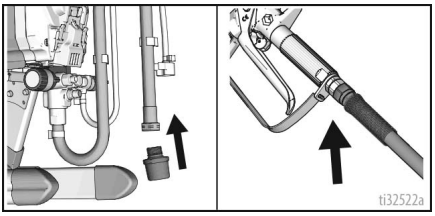
5. While holding the Suction Tube above the sprayer, pour approximately 2 oz (1/4 cup) of Pump Armor into the Suction Tube and turn the ON/OFF Switch to **ON**.



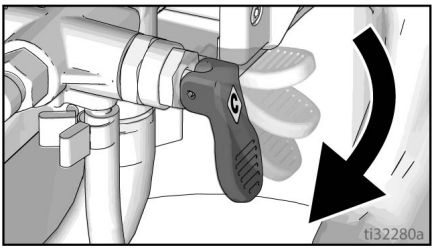
6. When Pump Armor is flushed through the sprayer and out the Drain Tube, turn the ON/OFF Switch to **OFF**. Replace and tighten the child-proof cap for storage.



7. Screw the Inlet Screen back to the Suction Tube. Ensure that the Spray Gun and Airless Hose stay attached to the sprayer.

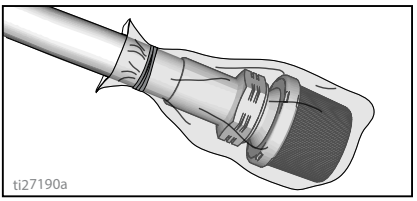


8. Lower the Prime/Spray Valve to the Spray position for storage.



9. Disconnect the power (unplug Power Cord).

10. Secure a plastic bag around the Suction Tube and Drain Tube to catch any drips.



Follow the guidance to keep the Magnum® TRUEAIRLESS® Electric Airless Sprayer in good condition for optimal use.

⚠ WARNING



MAINTENANCE ACTIVITY
1. Inspect the motor shroud openings for blockages every time you spray.
2. Clean/inspect the Inlet Screen and Gun Filter every time you spray. Replace if the Gun Filter cannot be cleaned or is damaged.

NOTICE

Protect the internal drive parts of this sprayer from water. Openings in the shroud allow cooling of mechanical parts and electronics inside. If water gets into these openings, the sprayer could malfunction or be permanently damaged.

AIRLESS HOSES

Check the Airless Hose for damage every time you spray. Do not attempt to repair the Airless Hose if the hose jacket or fittings are damaged. Do not use Airless Hoses shorter than 25 ft (7.6 m). Wrench-tighten, using two wrenches.

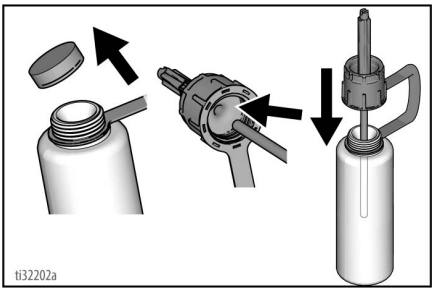
SPRAY TIPS

- Always clean the Spray Tips with compatible cleaning fluid and brush after spraying.
- Spray Tips may require replacement after 15 gal (57 l) or they may last through 60 gal (227 l) depending on abrasiveness of paint. See **Spray Pattern Quality**.

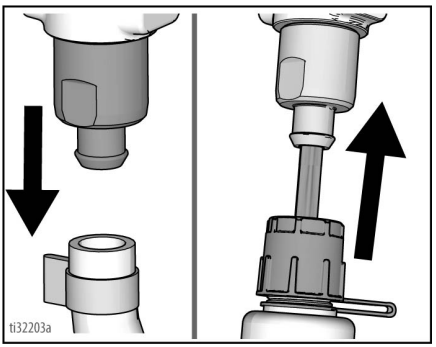
STORAGE/PRIMING TOOL

Perform these steps if you are experiencing difficulty priming your sprayer.

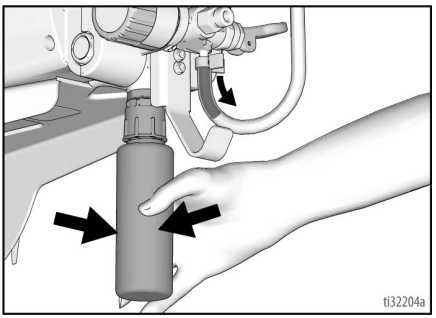
1. Perform the **Pressure Relief Procedure**.
2. Remove the Pump Armor™ bottle cap. Insert the small fluid tube into the bottom of the storage/prime tool, and thread the tool onto the bottle.



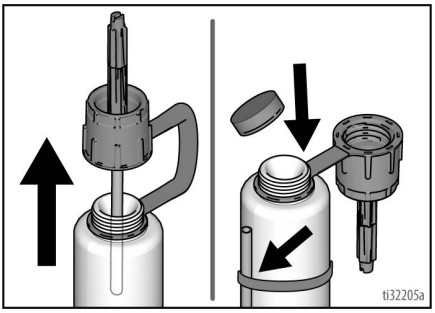
3. Remove the Suction Tube. Insert the storage/prime tool into the inlet and push up firmly until it stops.



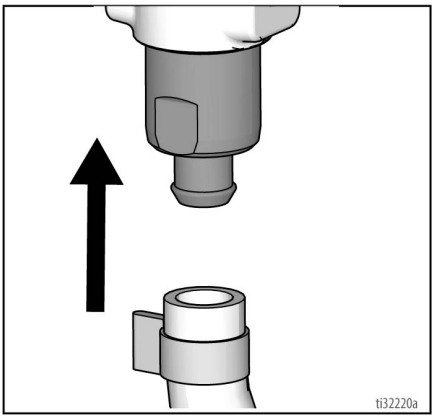
4. Squeeze the Pump Armor bottle until Pump Armor flows into the Drain Tube.



5. Remove the storage/prime tool. Replace and tighten the child-proof cap for storage.



6. Reinstall the Suction Tube. Ensure that the Suction Tube is snug on the inlet and the clamp is engaged.

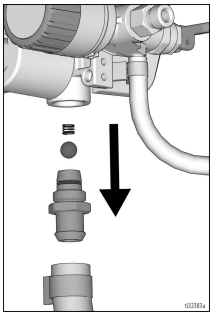
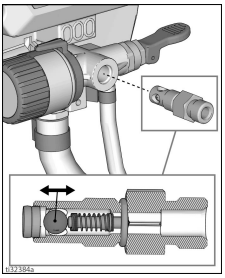


When problems occur, use the table to identify potential causes and solutions to repair the Magnum® TRUEAIRLESS® Electric Airless Sprayer.



1. Perform the **Pressure Relief Procedure** before checking or repairing your sprayer.
2. Solutions at the beginning of each problem listed are the most common.
3. Check everything in this Troubleshooting Table before you bring the sprayer to an authorized service center.

PROBLEM	CAUSE	SOLUTION
Motor does not run: (verify the sprayer is plugged in, and the ON/OFF Switch is ON).	Pressure Control Knob is set at zero pressure.	Turn the Pressure Control Knob clockwise to increase pressure setting.
	Electric outlet is not providing power.	Test the outlet with known working device. Reset the circuit breaker or replace fuse. Find a working outlet. Reset the building circuit breaker or replace fuse.
	Extension cord is damaged.	Replace the extension cord. See **Extension Cords**.
	Sprayer Power Cord is damaged.	Check for broken insulation or wires. Replace the Power Cord if damaged.
	Pump is seized (Paint has hardened in Pump or water is frozen in Pump).	Turn the ON/OFF Switch **OFF** and unplug the sprayer from the outlet. If frozen do not try to start the sprayer until it is completely thawed or it may damage the motor, control board and/or drive train. Place the sprayer in a warm area for several hours. Check for free moving Pump by removing the shroud and spinning the fan. If not frozen, check for hardened paint in the Pump. If paint has hardened in Pump. If motor does not turn with Pump removed, consult a Graco/ Magnum authorized retailer, distributor, or service center.
	Motor or control is damaged.	Consult a Graco/ Magnum authorized retailer, distributor, or service center.
Sprayer runs, but Pump does not prime or loses prime while in use.	Prime/Spray Valve is in the Spray position.	Turn the Prime/Spray Valve down to the Prime position until paint exits the Drain Tube.

PROBLEM	CAUSE	SOLUTION
(Pump cycles but does not pull paint into the Suction Tube or build pressure).	Inlet screen is clogged or the Suction Tube is not completely immersed in paint.	Clean debris off the Inlet Screen and make sure the Suction Tube is completely immersed in paint.
	Inlet or Outlet Valve ball is stuck or dirty.	See **Storage/Priming Tool**. Then reprime the Pump. Remove the Inlet and/or Outlet Valves and clean, replace and reprime. See **Fill Pump (Prime Pump)**. See figures: • Do not lose the ball and spring of the Inlet Valve assembly or the sprayer will not function.  • Make certain the outlet ball moves free in the housing before replacing. 
	Suction Tube is leaking.	Inspect the Suction Tube connection for cracks or vacuum leaks.
	Debris in paint causing obstruction.	Strain the paint. See **Strain the Paint**.
	Prime/Spray Valve is worn or obstructed with debris.	Take the sprayer to Graco/Magnum authorized service center.

PROBLEM	CAUSE	SOLUTION
Pump is primed, but can not achieve good spray pattern.	Spray Tip may be partially clogged.	See **Clear Spray Tip Clog**.
	Reversible Spray Tip is in the unclog position.	Rotate the arrow-shaped handle on the Spray Tip so it points forward to the Spray position. See **Clear Spray Tip Clog**.
	Debris in paint causing obstruction.	Strain the paint. See **Clear Spray Tip Clog**.
	Pressure is set too low.	Align the Pressure Control Knob setting indicator to the desired spray setting. See **Clear Spray Tip Clog**.
	Gun Filter is clogged.	Clean or replace the Gun Filter. See **Clear Spray Tip Clog**.
	Spray Tip selected is too large for capability of the sprayer.	Replace the Spray Tip. See **Spray Techniques**.
	Spray Tip is worn beyond the capability of the sprayer.	Replace the Spray Tip. See **Spray Techniques**.
	Spray Tip gasket and seal worn or missing.	Replace the gasket and seal. See **Spray Techniques**.
	Inlet Screen is clogged or the Suction Tube is not immersed in paint.	Clean debris off the Inlet Screen and make sure the Suction Tube is immersed in paint.
	Extension cord is too long or not heavy enough gauge.	Replace the extension cord.
	Inlet Valve or Outlet Valve is worn or clogged with debris.	Check for worn or contaminated Inlet Valve or Outlet Valve. • Prime the sprayer with paint. • Trigger the Spray Gun momentarily. • When the trigger is released, the Pump should cycle momentarily and stop. • If the Pump continues to cycle, The Pump valves may be worn or contaminated with debris. • See **Storage/Priming Tool**.
	Material is too thick.	Thin material. Follow manufacturer's recommendations.

PROBLEM	CAUSE	SOLUTION
Pump is primed, but can not achieve good spray pattern.	Airless Hose is too long (if extra section was added).	Remove section of Airless Hose.
Spray Gun stopped spraying while trigger is pulled.	Spray Tip is clogged.	See **Clear Spray Tip Clog**.
	Sprayer lost prime.	Reprime sprayer. See **Fill Pump (Prime Pump)**.
		See **Troubleshooting**.
When paint is sprayed, it runs down the wall or sags.	Material is going on too thick.	Move the Spray Gun faster.
		Choose a Spray Tip with a smaller hole size.
		Choose a Spray Tip with a wider fan.
		Make sure the Spray Gun is far enough from the surface.
When paint is sprayed, coverage is inadequate.	Material is going on too thin.	Move the Spray Gun slower.
		Choose a Spray Tip with a larger hole size.
		Choose a Spray Tip with a narrower fan.
		Make sure the Spray Gun is close enough to the surface.
Fan pattern varies dramatically while spraying.	Pressure Control Knob is worn and causing excessive pressure variation.	Take the sprayer to Graco/Magnum authorized service center.
Cannot trigger the Spray Gun.	Spray Gun Trigger Lock is engaged.	Rotate the Gun Trigger Lock to disengage the Gun Trigger Lock.
Paint is coming out of the Pressure Control Knob.	Pressure Control Knob is worn.	Take the sprayer to Graco/Magnum authorized service center.
Paint is leaking through the Drain Tube.	Sprayer is over pressurizing.	Take the sprayer to Graco/Magnum authorized service center.
Paint leaks down outside of the Pump.	Pump is worn.	Replace the Pump.
Motor is hot and runs intermittently. Motor automatically shuts off due to excessive heat. Damage can occur if cause is not corrected.	Vent holes in the enclosure are plugged or sprayer is covered.	Keep vent holes clear of obstructions and overspray and keep the sprayer open to the air.
	Extension cord is too long or cord gauge is not heavy enough.	Replace the extension cord.

PROBLEM	CAUSE	SOLUTION
Motor is hot and runs intermittently. Motor automatically shuts off due to excessive heat. Damage can occur if cause is not corrected.	Unregulated electrical generator being used has excessive voltage.	Use an electrical generator with a proper voltage regulator.
	Motor needs to be replaced.	Take the sprayer to Graco/Magnum authorized retailer, distributor, or service center.

GRACO STANDARD WARRANTY

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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