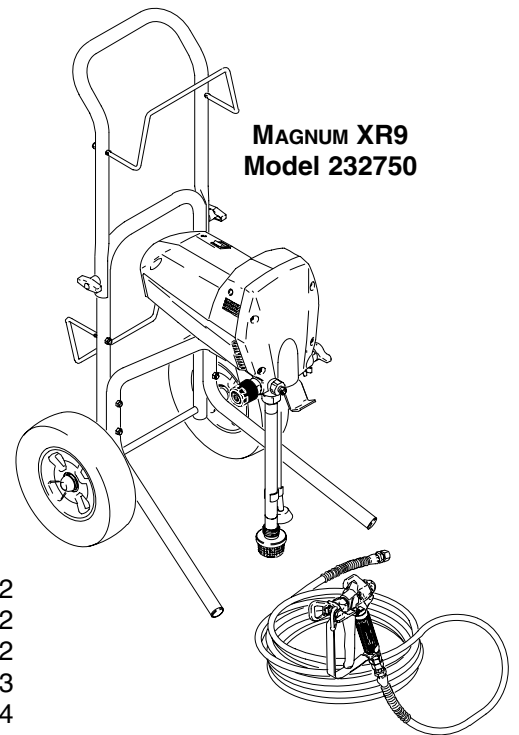
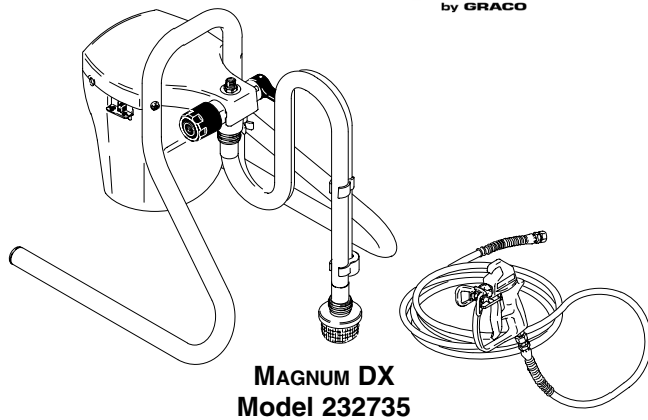


# Operator's Quick Guide

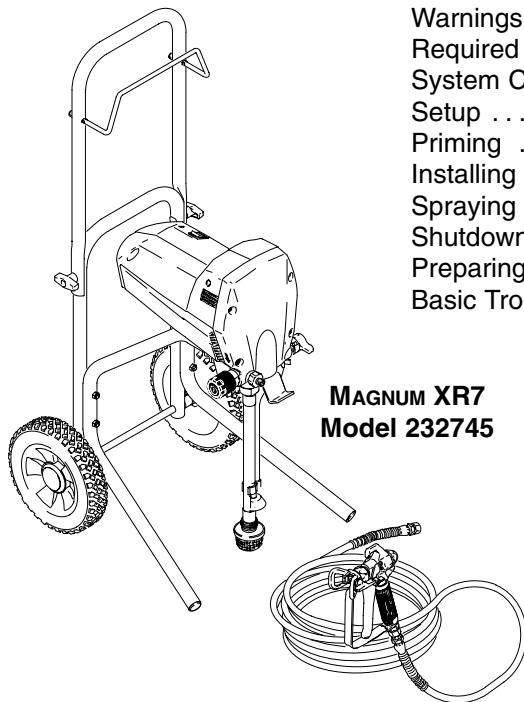
**MAGNUM**  
by GRACO

## Airless Sprayers

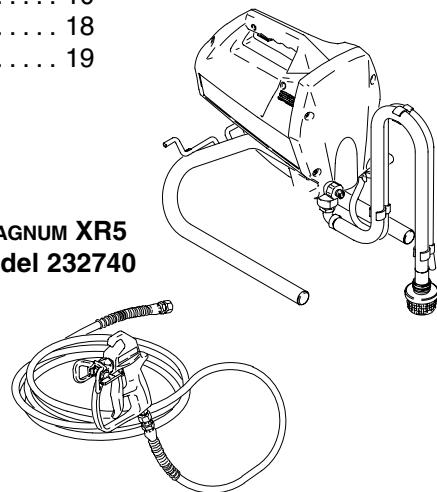


### Contents

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**MAGNUM XR5**  
**Model 232740**



# ⚠ WARNING

Instructions in this guide are for water-base coatings. Airless sprayers cannot spray filled materials such as sand, concrete, or aggregate based textures. Refer to the manufacturer's specification sheet to determine if the material is sprayable.



Read **Fire and Explosion Hazard** on enclosed *WARNINGS* sheet.



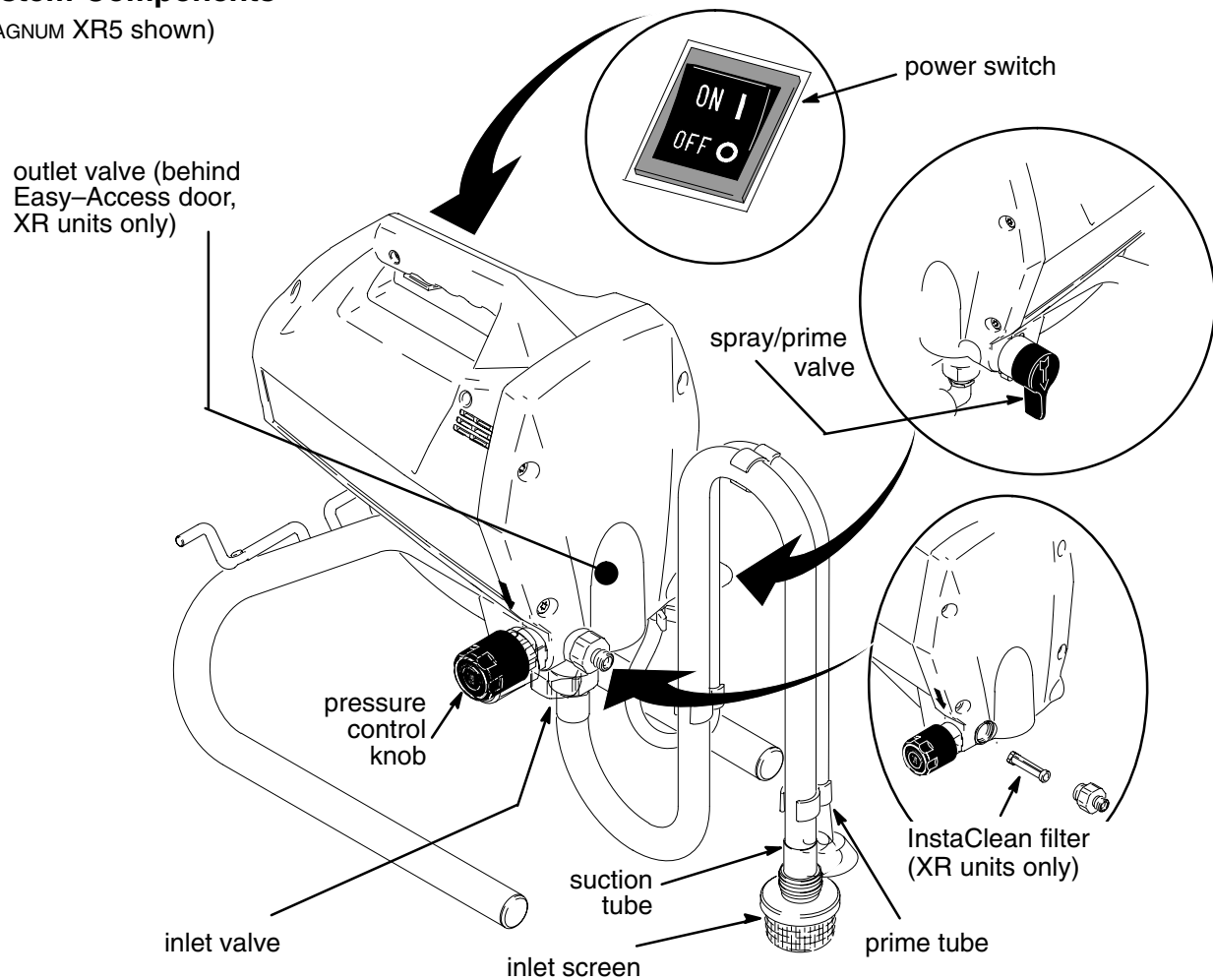
To prevent injury and equipment damage and to maximize sprayer performance, read all **Warnings, Cautions**, and procedures in enclosed *Operating Instructions*.

## Required Tools and Accessories

- ✓ Two 8-in. (20 cm) adjustable wrenches
- ✓ Strainer bag to strain paint before it is sprayed
- ✓ Drop cloths, spray shield, and other site preparation supplies
- ✓ Respirator and safety glasses
- ✓ Paint pail for coating to be sprayed
- ✓ Waste pail to catch drainage during priming
- ✓ Garden hose for flushing with Power Flush™ attachment
- ✓ Pump Armor™ or mineral spirits/paint thinner for sprayer storage

## System Components

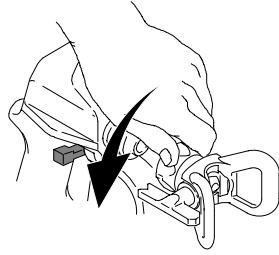
(MAGNUM XR5 shown)



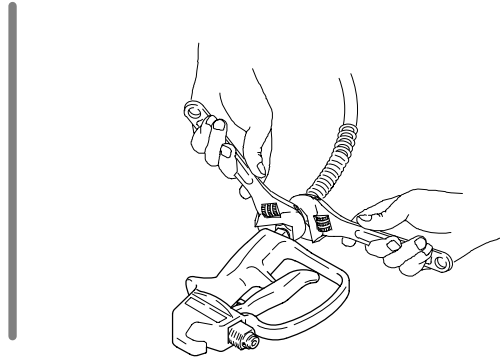
# Setup

## Assembling New Sprayer or Setting Up Sprayer that Has Been Stored

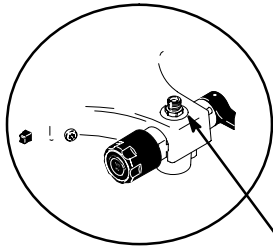
1. Unscrew tip & guard assembly from gun to prepare for priming.



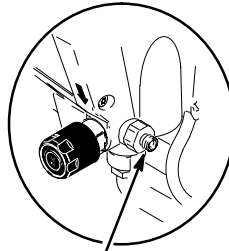
2. Uncoil hose, and connect one end to gun.



3. Connect other end of hose to sprayer.

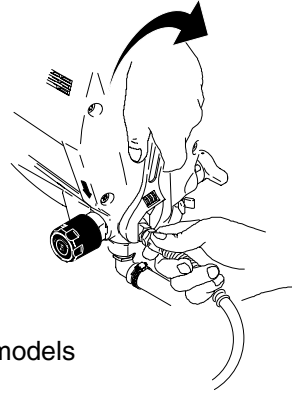


DX models



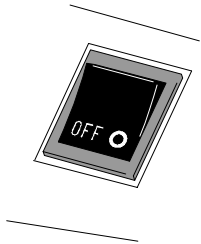
XR models

connect hose here

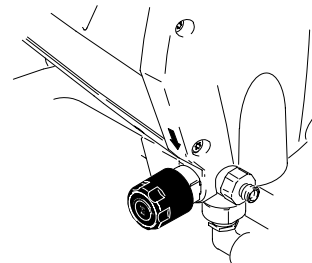


If hose is already connected, make sure connections are tight.

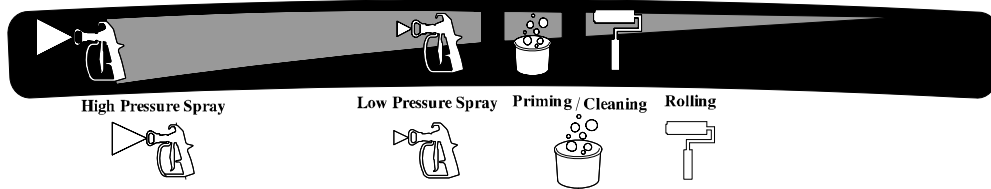
4. Turn power switch OFF.



5. Turn Pressure Control Knob all the way left (counterclockwise) to minimum pressure.



**NOTE:** To select a function, align the symbol with the arrow on the sprayer.



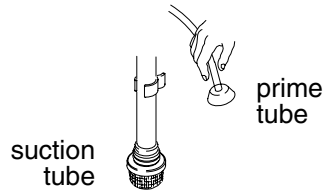
# Priming

## Flushing Out Factory or Storage Fluid and Loading Pump with Water

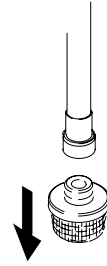
1. Turn Spray/Prime valve to PRIME.



2. Separate prime tube (smaller) from suction tube (larger).



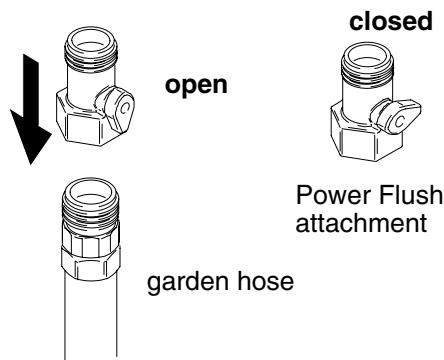
3. Unscrew inlet screen from suction tube.



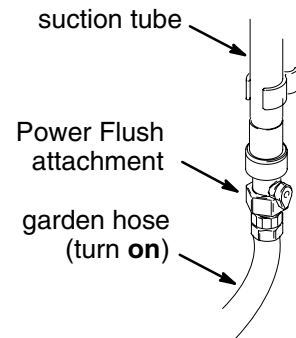
4. Place prime tube in waste pail.



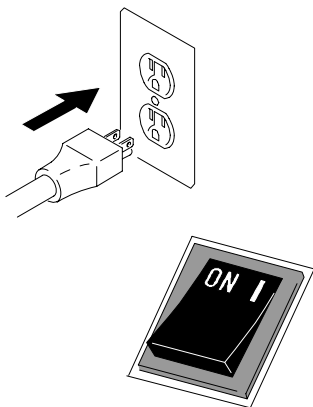
5. Screw Power Flush attachment (included with sprayer) onto garden hose, and **open** Power Flush attachment.



6. Screw garden hose and Power Flush attachment onto suction tube, and turn **on** garden hose.

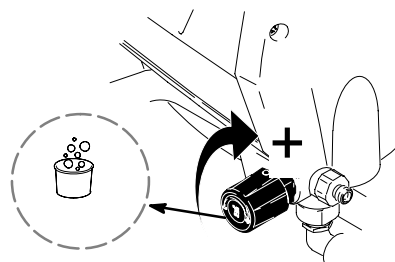


7. Plug sprayer into grounded outlet, turn power switch ON.

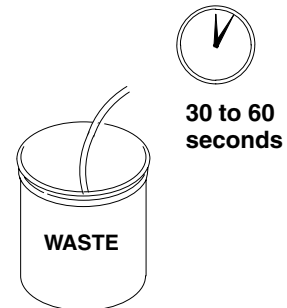


8. Align the arrow on the sprayer to bucket symbol until pump starts.

**Water flowing out of prime tube indicates pump is primed with water.**



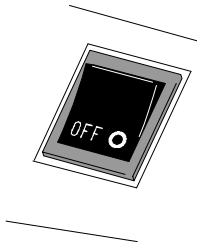
9. Let water flow out of prime tube into waste pail for 30 to 60 seconds.



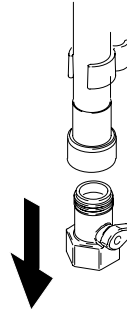
# Priming

## Flushing Out Water and Loading Pump and Hose with Paint

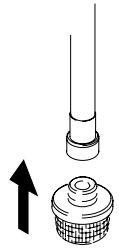
1. Turn power switch OFF.



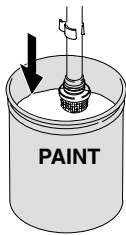
2. Turn Power Flush to closed position and garden hose off. Unscrew Power Flush attachment from suction tube.



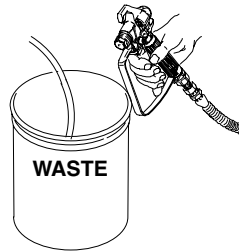
3. Screw inlet screen onto suction tube.



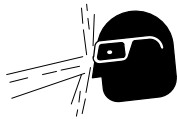
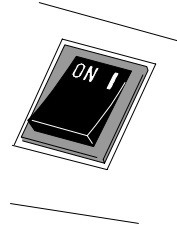
4. Submerge suction tube in paint.



5. Point gun into waste pail.



6. Turn power switch ON.



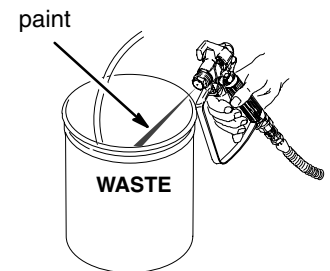
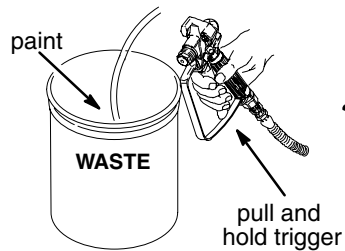
### Fluid Splashback Hazard

(see *WARNINGS* sheet): Keep gun trigger pulled while turning Spray/Prime valve in this step.

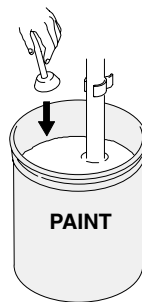
7. ● When paint starts to come out of prime tube, pull and hold gun trigger, and turn Spray/Prime valve to SPRAY.

- When paint comes out of gun, release gun trigger.

**Motor stopping indicates pump and hose are primed with paint.**



8. Transfer prime tube to paint pail.



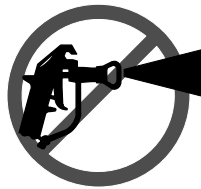
# Installing Tip and Guard

## Tip Setup



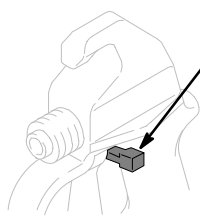
**Fluid Injection Hazard** See *WARNINGS* sheet.

1. Put trigger safety lever in SAFETY ON position.

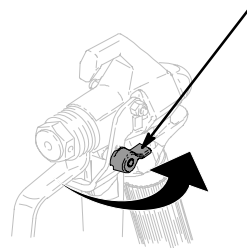


**SAFETY ON**

**SAFETY ON**  
(DX & XR5)

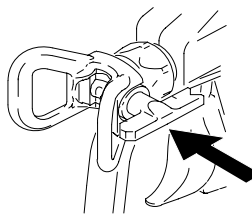
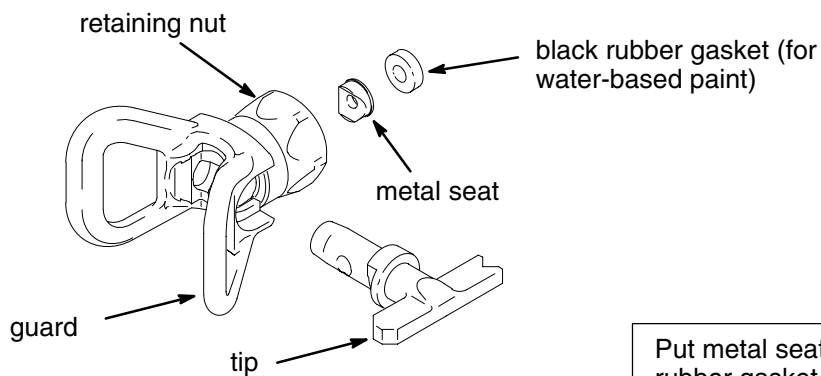


**SAFETY ON**  
(XR7/XR9)



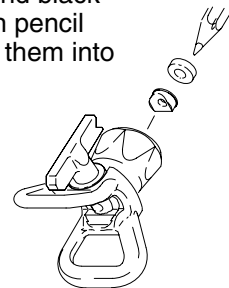
Tip & guard are pre-assembled with black gasket for water-based paint.  
Use yellow gasket for non-water/solvent coatings.

2. Make sure tip & guard parts are assembled in order shown below. Install tip before seat and gasket.



Tip must be pushed all the way into guard.

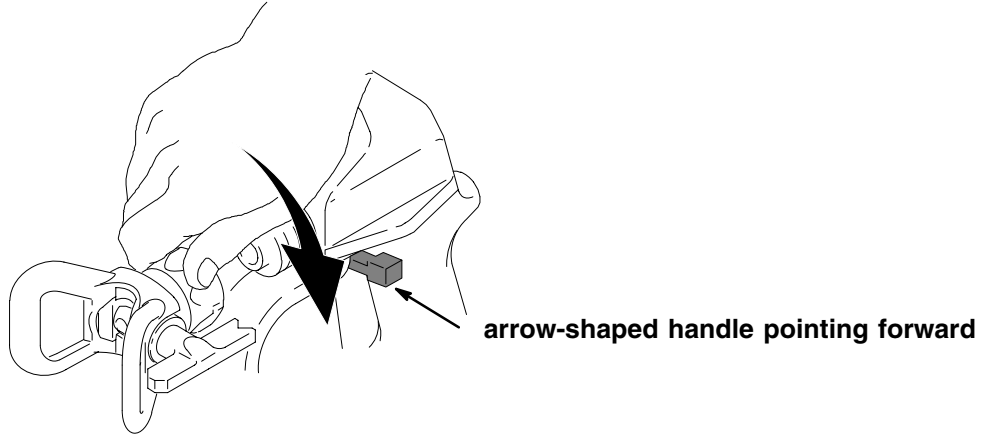
Put metal seat and black rubber gasket on pencil point, and insert them into guard together.



# Installing Tip and Guard

## Tip Setup

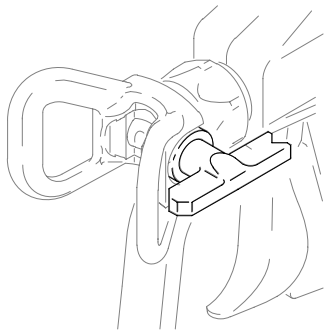
3. Screw tip & guard assembly onto gun, and tighten retaining nut by hand.



System is ready to spray. Read **Reversible Tips** below and **Spraying Techniques** on pages 8 and 9.

### Reversible Tips

Arrow-shaped handle on reversible tip indicates **SPRAY** position pointing forward or **UNCLOG** position pointing back. This design allows for unclogging tips with no tip disassembly.

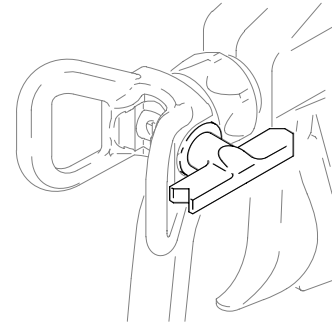


**SPRAY position**  
(pull trigger to paint)

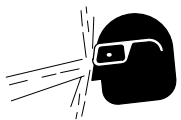


### SAFETY ON

Put trigger safety lever in SAFETY ON position before you rotate arrow-shaped handle.

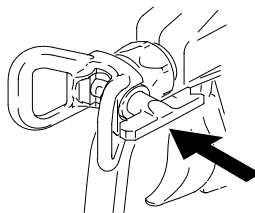


**UNCLOG position**  
(pull trigger to clear clogged tip)



**Fluid  
Splashback  
Hazards**

Tip must be pushed all the way into guard.



Never pull gun trigger when arrow-shaped handle is between **SPRAY** and **UNCLOG** positions.



# Spraying Techniques

## Adjusting Pressure

Sprayer is set up for most airless spraying applications. For details on tip selection, tip wear, coat thickness, and so on, see **Spraying Techniques** in enclosed *Operating Instructions*.



**Fluid Injection Hazard**  
See *WARNINGS* sheet.



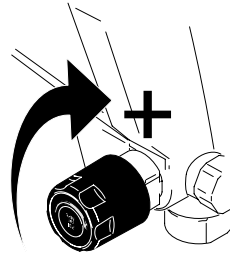
**Fire and Explosion Hazard**  
See *WARNINGS* sheet.

### Motor runs **ONLY** when gun is triggered.

Sprayer is designed to stop pumping when gun trigger is released.

### Adjust the Pressure

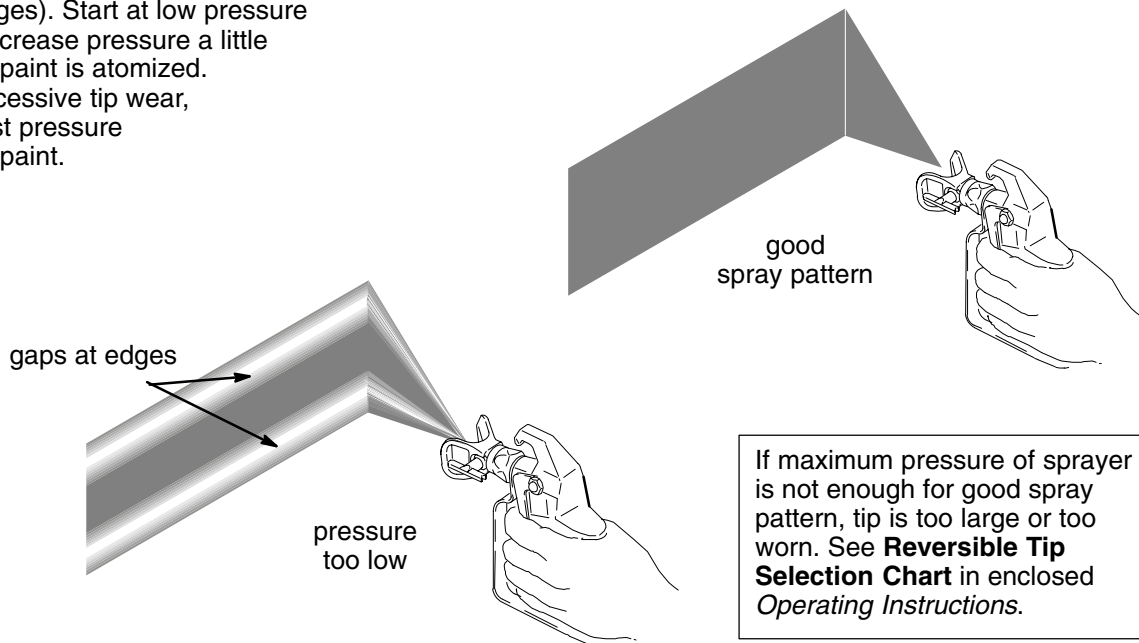
Align arrow on sprayer with the function symbol on the Pressure Control knob. Turning the knob to the right (clockwise) increases pressure at gun. Turning it left (counterclockwise) decreases pressure. See Note on page 3 for a description of the symbols on the Pressure Control knob label.



### Prevent Excessive Tip Wear

Spray should be atomized (evenly distributed, no gaps at edges). Start at low pressure setting, and increase pressure a little at a time until paint is atomized.

To prevent excessive tip wear, spray at lowest pressure that atomizes paint.



If maximum pressure of sprayer is not enough for good spray pattern, tip is too large or too worn. See **Reversible Tip Selection Chart** in enclosed *Operating Instructions*.

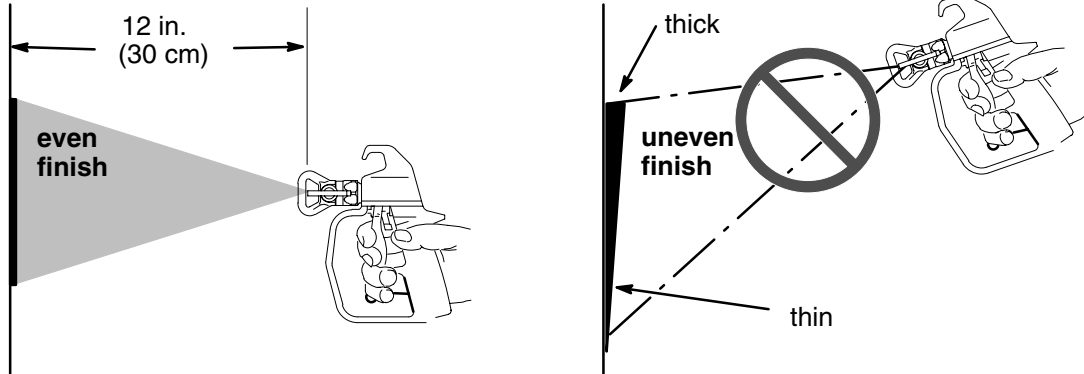


# Spraying Techniques

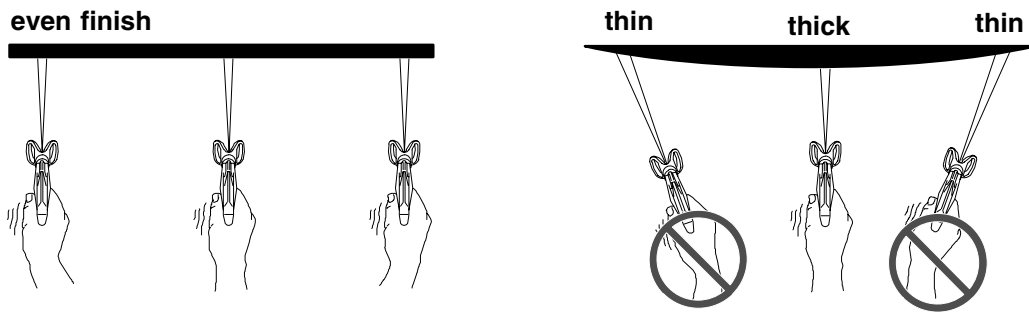
## Basic Techniques

### Holding the Gun

Hold gun 12 in. (30 cm) from surface, and aim straight at surface. Tilting gun to direct spray at angle causes uneven finish.

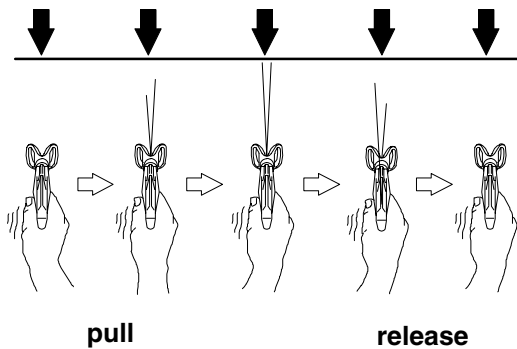


Flex wrist to keep gun pointed straight. Fanning gun to direct spray at angle causes uneven finish.



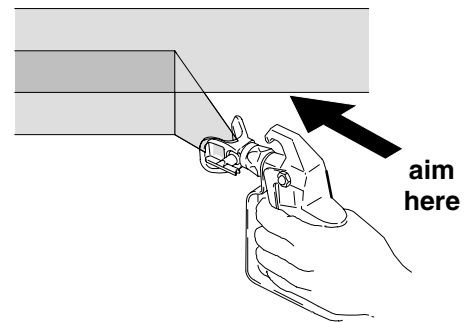
### Triggering the Gun

Pull trigger after starting stroke, release trigger before end of stroke. Gun must be moving when trigger is pulled and released.



### Aiming the Gun

Aim tip of gun at edge of previous stroke to overlap each stroke by half.



# Shutdown and Cleaning

## Power Flushing After Spraying Water-Based Coatings

See **Pail Flushing** in the enclosed *Operating Instructions* for flushing after spraying **non-water/solvent** coatings.

For short shutdown periods (breaks on the job), leave suction tube and prime tube in paint, and **relieve the pressure** by turning the Spray/Prime valve to PRIME (see *WARNINGS* sheet). For extended shutdown periods, clean sprayer by flushing as instructed in this section.

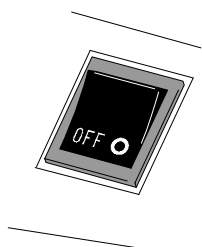


PRIME  
(to relieve pressure)

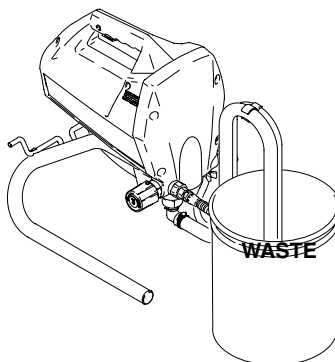


**Fluid Injection Hazard**  
See *WARNINGS* sheet.

1. Turn power switch OFF.



2. Place suction tube and prime tube in empty waste pail.

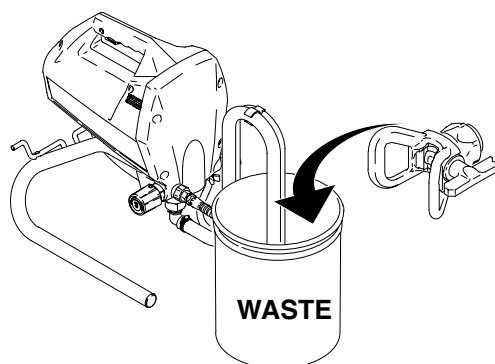


3. Turn Spray/Prime valve to PRIME to relieve pressure.



PRIME

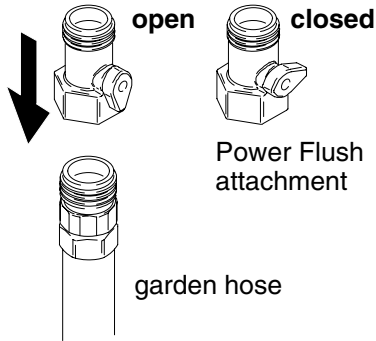
4. With the trigger safety ON, unscrew tip & guard from gun, and place them in waste pail.



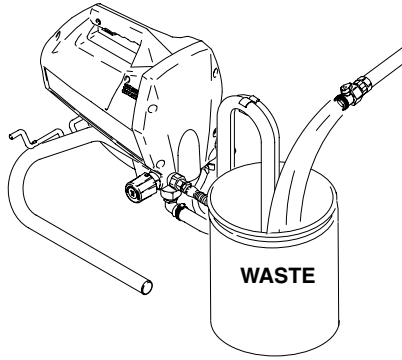
# Shutdown and Cleaning

## Power Flushing After Spraying Water-Based Coatings

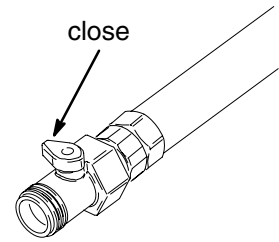
5. Screw Power Flush attachment onto garden hose, and **open** Power Flush attachment.



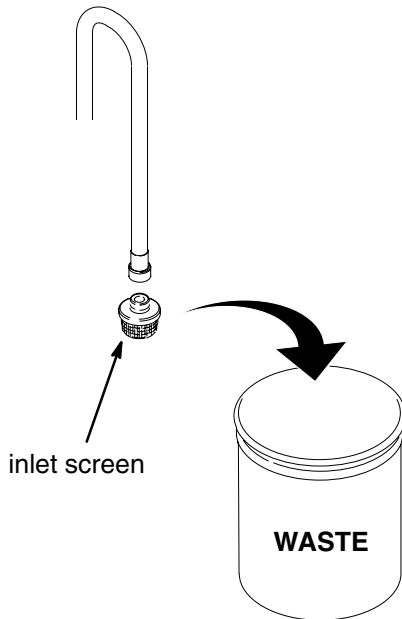
6. Turn on water, and rinse paint off suction tube, prime tube, and inlet screen.



7. Turn lever to close Power Flush attachment.

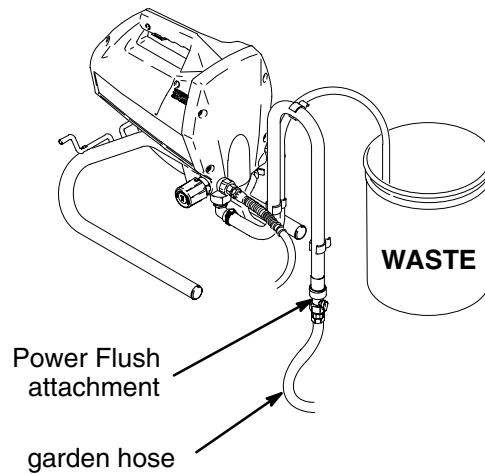


8. Unscrew inlet screen from suction tube, and place it in waste pail.



9. Connect garden hose to suction tube with Power Flush attachment.

**Leave prime tube in waste pail.**



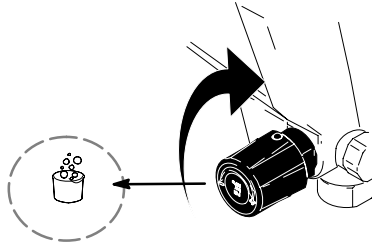
# Shutdown and Cleaning

## Power Flushing After Spraying Water-Based Coatings

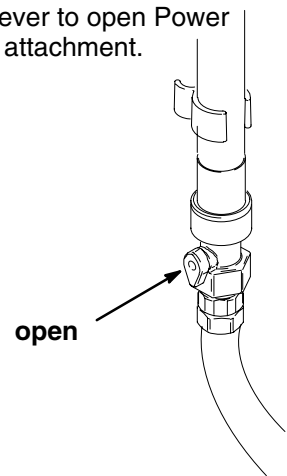
10. Turn Spray/Prime valve to SPRAY.



11. Align the arrow on the sprayer with the bucket symbol on the Pressure Control knob.



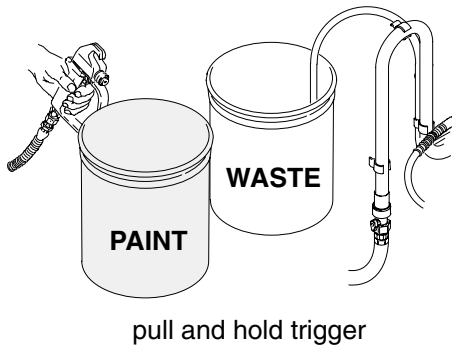
12. Turn lever to open Power Flush attachment.



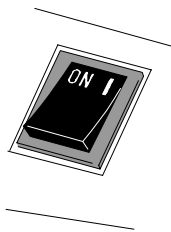
### Saving Paint:

Step 13 is for returning paint in hose back to paint pail. One 50-foot (15-meter) hose holds approximately 1 quart (1 liter) of paint.

13. ● Pull and hold gun trigger, and point gun into paint pail.



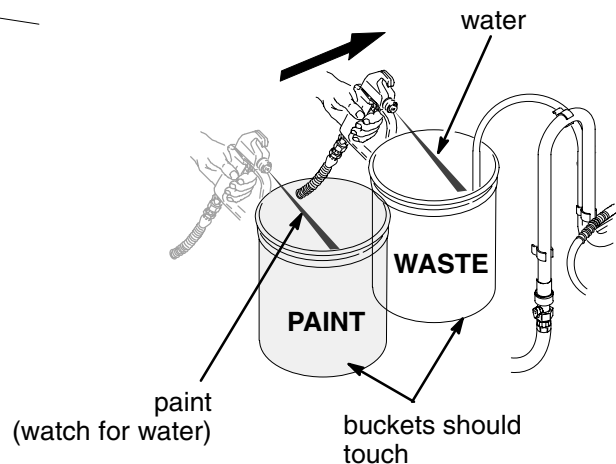
● Turn power switch ON to begin pumping paint in hose back into paint pail.



● When water comes out of gun, **keep gun trigger pulled**, and move aim of gun to waste pail.



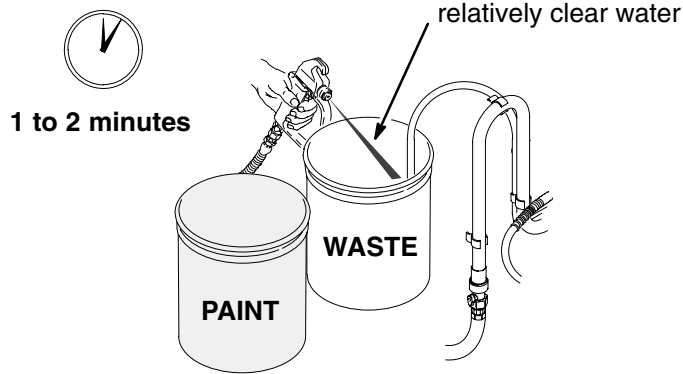
**Fluid Splashback Hazard**  
(see *WARNINGS* sheet): Do not release gun trigger at end of this step. **Pull and hold gun trigger through Step 14.**



# Shutdown and Cleaning

## Power Flushing After Spraying Water-Based Coatings

14. Keep gun triggered and aimed into waste pail for 1 to 2 minutes until relatively clear water comes out of gun.

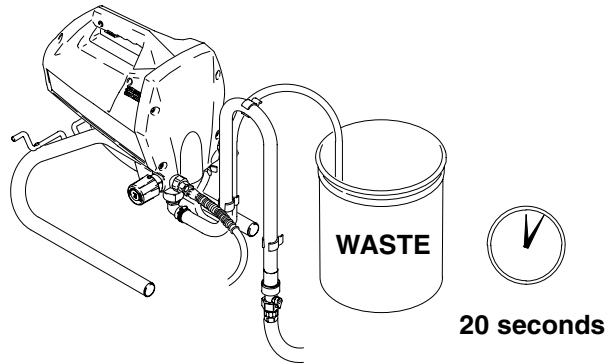


15. Turn Spray/Prime valve to PRIME.

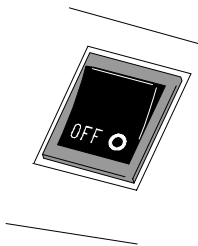


PRIME

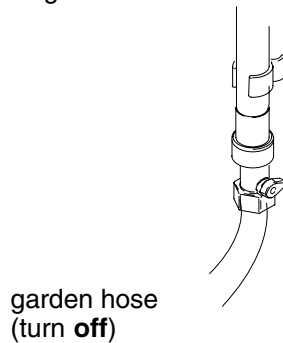
16. Let water flow through sprayer into waste pail for 20 seconds.



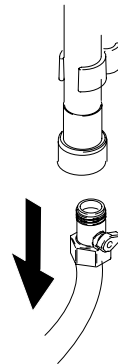
17. Turn power switch OFF.



18. Close Power Flush. Turn off garden hose.



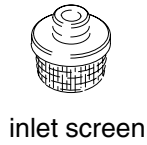
19. Unscrew Power Flush attachment from suction tube.



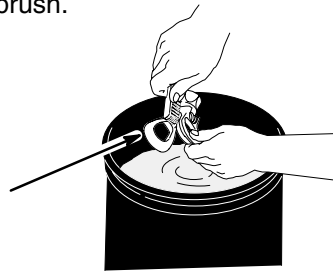
# Shutdown and Cleaning

## Cleaning Tip & Guard, Inlet Screen, and Gun Filter

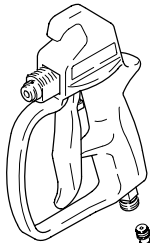
1. Clean tip & guard and inlet screen with water and a brush.



tip & guard



2. Remove gun filter, and clean it with water and a brush.



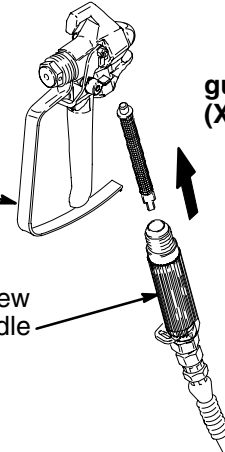
gun filter  
(DX/XR5)

- 1 Unscrew hose

- 2 Then, remove filter

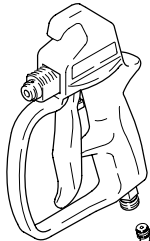
- 1 Unclip trigger guard

- 2 Then, unscrew handle



gun filter  
(XR7/XR9)

3. Install gun filter with round end pointing up.



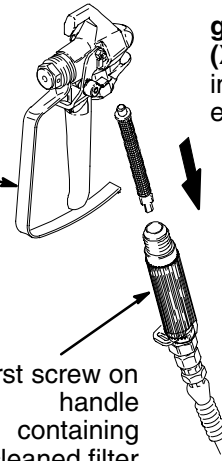
gun filter  
(DX/XR5)

- 1 Insert filter into gun

- 2 Then attach hose

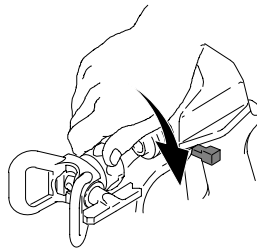
- 2 Then clip trigger guard

- 1 First screw on handle containing cleaned filter



gun filter  
(XR7/XR9)  
install with round  
end up

4. Screw tip & guard assembly onto gun, and tighten retaining nut by hand.

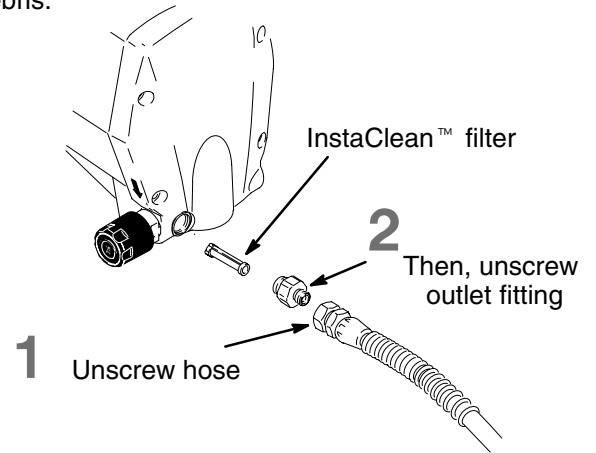


# Shutdown and Cleaning

## Cleaning InstaClean Filter (only available on XR models)

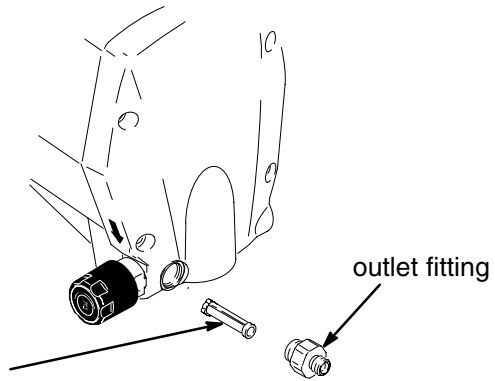
1. Remove InstaClean filter from sprayer, and check it for debris.  
If needed, clean InstaClean filter with water and a brush.

InstaClean filter prevents particles from entering paint hose. InstaClean filter is self cleaning, but remove and clean it after each use for peak performance.

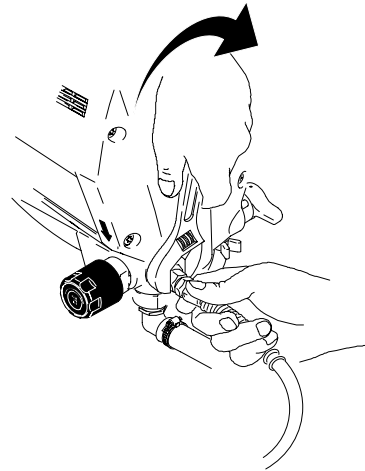


2. Install InstaClean filter, and reconnect hose to sprayer.

Install open end of InstaClean filter in outlet fitting, then screw outlet fitting into sprayer outlet.



3. Tighten outlet fitting and reconnect hose to sprayer.



NEVER LEAVE WATER IN PUMP. Continue with **Replacing Water with Storage Fluid**, the final shutdown and cleaning procedure (page 16).

# Shutdown and Cleaning

## Replacing Water with Storage Fluid



**Fluid Injection Hazard**  
See *WARNINGS* sheet.

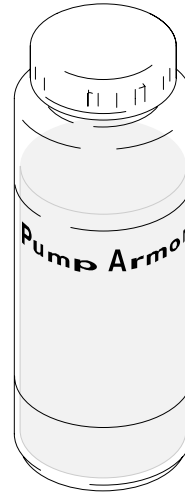


**Fire and Explosion Hazard**  
See *WARNINGS* sheet.

**Storage fluid: Pump Armor or mineral spirits/paint thinner**

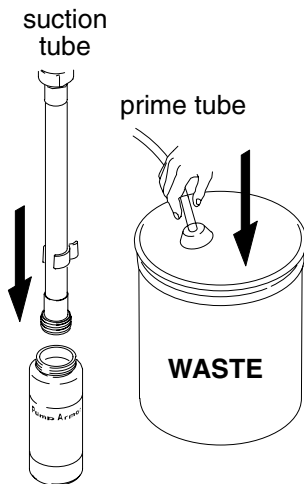
Always pump storage fluid through system after cleaning. Water left in sprayer will corrode and ruin pump.

This is the procedure for pumping storage fluid through system.



**Pump Armor**

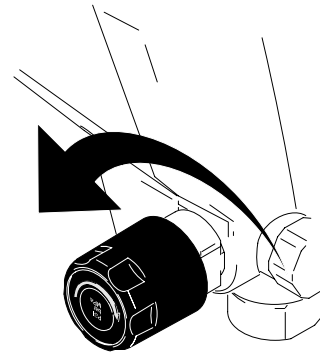
1. Place suction tube in storage fluid bottle and prime tube in waste pail.



2. Turn Spray/Prime valve to PRIME.



3. Turn pressure control knob all the way left (counterclockwise) to minimum pressure.

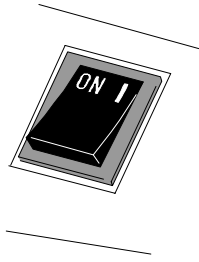




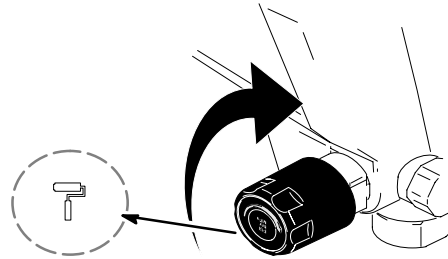
# Shutdown and Cleaning

## Replacing Water with Storage Fluid

4. Turn power switch ON.

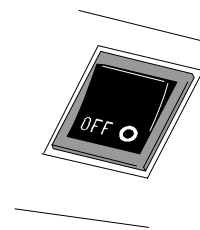
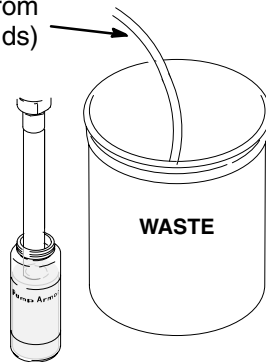


5. Align the arrow on the sprayer to the roller symbol on the Pressure Control Knob.



6. When storage fluid comes out of prime tube (in 5 to 10 seconds), turn power switch OFF.

watch for storage fluid from  
prime tube (in 5 to 10 seconds)



7. Turn Spray/Prime valve to SPRAY to keep storage fluid in sprayer during storage.

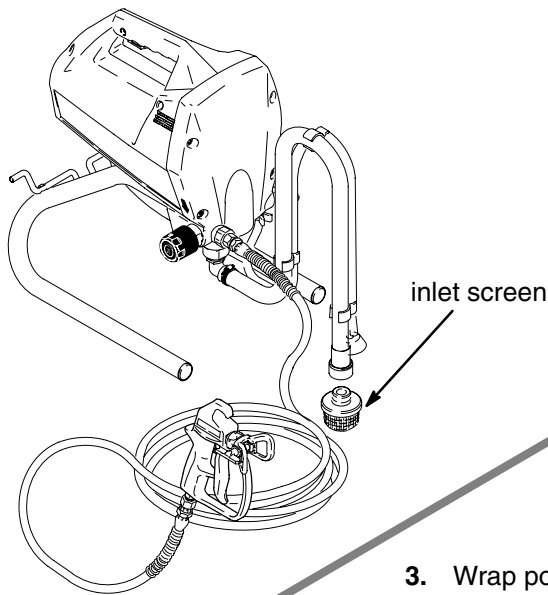


SPRAY

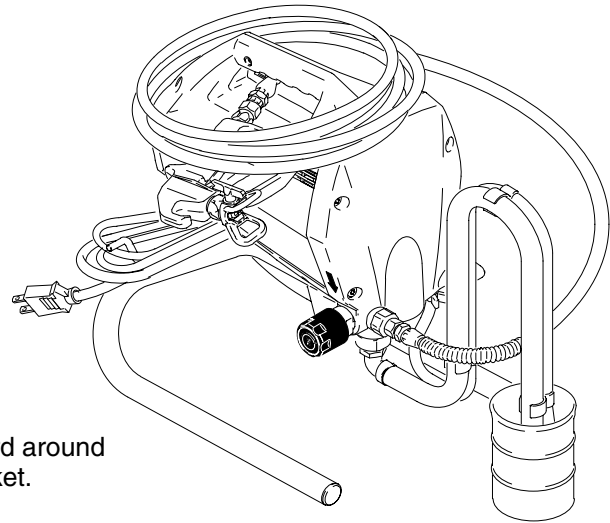
# Shutdown and Cleaning

## Stowing Sprayer

1. Screw inlet screen onto suction tube.

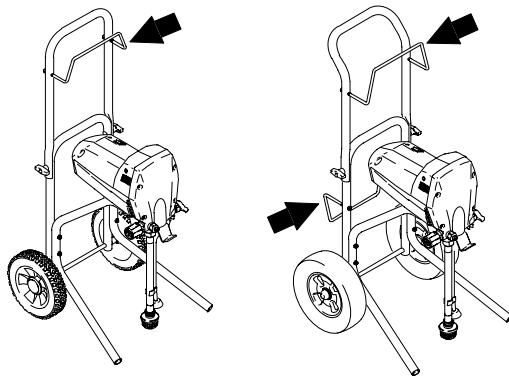


2. Coil up hose. Leave it connected to sprayer and gun. (Hose strap (p/n 114271) can be used to secure the hose to the sprayer.)



3. Wrap power cord around cord wrap bracket.

MAGNUM XR7 & XR9 have hose/cord wrap brackets on handles.



4. Place suction tube and prime tube in container to catch any drips.

System is ready for next use.

Flush system (Steps 1 to 9, page 4) before spraying next coating.

# Basic Troubleshooting

## Resolving Common Airless Sprayer Difficulties

For detailed troubleshooting, see enclosed *Operating Instructions*.

Problem	Cause	Solution
Power switch is ON and sprayer is plugged in, but pump does not cycle.	Pressure is set at minimum.	Turn Pressure Control knob to the right (clockwise) to increase pressure.
Cannot pull gun trigger.	Trigger safety is in SAFETY ON position.	Put trigger safety in SAFETY OFF position.
Pump will not prime. <b>HINT:</b> <ul style="list-style-type: none"> <li>• Attempt to free check balls by tapping side of inlet valve as sprayer is stroking.</li> <li>• Strain paint before spraying and keep sand and debris out.</li> <li>• Thoroughly flush after every paint job.</li> <li>• Do not store in water. Use Pump Armor or mineral spirits.</li> </ul>	Spray/Prime valve is at SPRAY.	Turn Spray/Prime valve to PRIME (pointing down).
	Inlet screen is clogged, or suction tube is not immersed.	Clean debris off inlet screen. Make sure suction tube is at bottom of paint pail.
	Inlet valve check ball is stuck.	Remove suction tube and place a pencil into the inlet section to dislodge the ball, allowing the pump to prime properly. <b>OR Power Flush</b> the unit (see page 10).
	Outlet valve check ball is stuck	<b>XR sprayers:</b> Use a screw driver to open the Easy-Access door. Unscrew the outlet valve. Remove and clean the assembly. <b>DX sprayers:</b> Remove hose from sprayer. Unscrew outlet valve to remove assembly. Gently nudge the ball in the outlet assembly with a screwdriver. Screw the valve back into the pump.
Gun stopped spraying.	Tip is clogged.	Turn the arrow-shaped handle to the unclog position. (See <b>Reversible Tips</b> on page 7.) Aim gun into waste pail. Squeeze trigger. Return arrow-shaped handle to spray position to begin spraying.
Pump cycles but does not build up pressure.	Pump is not primed.	See <b>Priming</b> on page 4.
	Inlet screen is clogged, or suction tube is not immersed.	Clean debris off inlet screen. Make sure suction tube is at bottom of paint pail.
	Paint pail is empty.	Refill paint pail, and reprime sprayer.
	Suction tube has vacuum air leak.	Tighten suction tube connection.
	Pump check ball is stuck	See “Pump will not prime” section of <b>Trouble Shooting</b> instructions.
Pump cycles, but paint only dribbles or spurts when gun trigger is pulled.	Pressure is set too low.	Turn Pressure Control knob to the right (clockwise) to increase pressure.
	Tip is clogged.	Clear tip. See <b>Reversible Tips</b> on page 7.
	InstaClean filter is clogged. (only on XR models)	Clean InstaClean filter. See page 15.
	Spray tip is too large or worn	Replace tip. See Tip Selection in Operating Instructions.
	Gun filter is clogged.	Clean gun filter. See page 14.
Spray pattern is inconsistent or is leaving stripes.	Pressure is set too low.	Turn Pressure Control knob to the right (clockwise) to increase pressure.
	Tip is worn beyond capability of sprayer.	Replace tip.

# **Important Notice**

This guide is intended as a reference. To prevent injury and equipment damage and to maximize sprayer performance and service life, read the enclosed *Operating Instructions* before you use this sprayer.

**NEED HELP?**  
**Call us at**  
**1-888-541-9788**

**To find your Graco/MAGNUM authorized service center**

- See the enclosed *Graco/MAGNUM Authorized Service Centers* list
- Visit our website at [www.graco.com](http://www.graco.com)
- Call us at **1-888-541-9788**

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