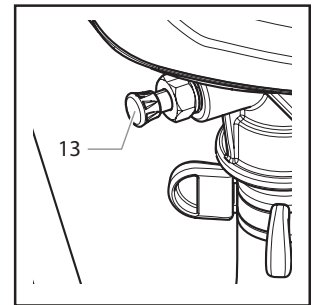
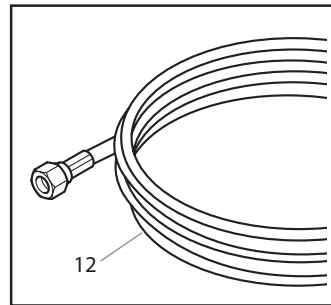
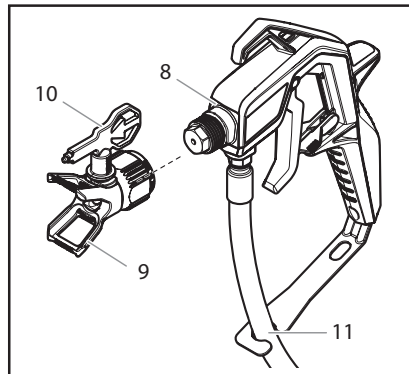
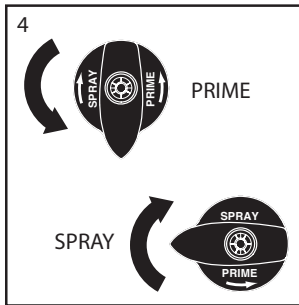
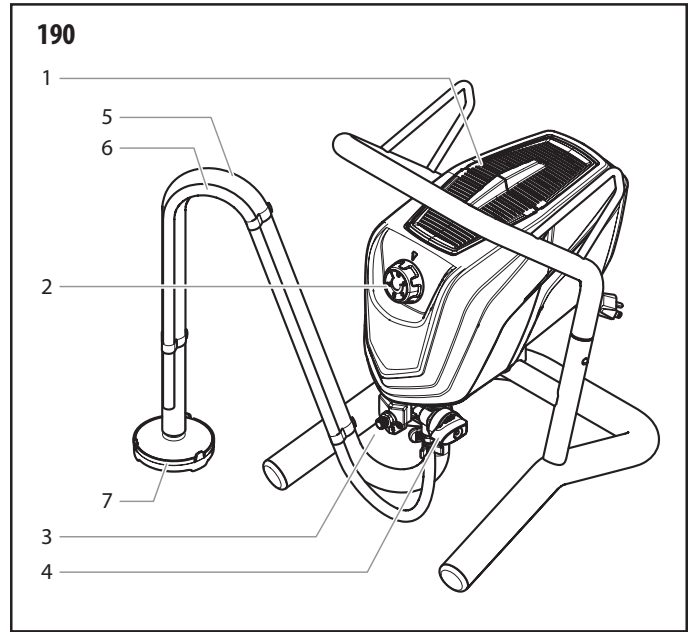
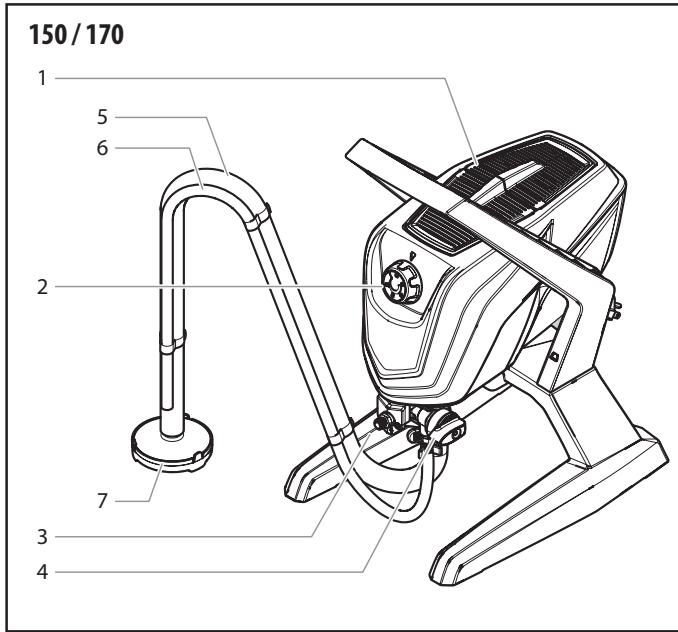


# PARTS AND COMPONENTS



| #  | ITEM                                  | DESCRIPTION   |
|----|---------------------------------------|---|
| 1  | Tool box                              | The Tool Box provides a place for items such as extra spray tips or wrenches.   |
| 2  | Pressure control knob / ON/OFF switch | The pressure control knob regulates the amount of force the pump uses to push the fluid and can be adjusted for desired spray pattern. Also used to switch the pump ON / OFF. |
| 3  | Spray hose port                       | The connection between the pump and the spray hose.   |
| 4  | PRIME/SPRAY knob                      | The PRIME/SPRAY knob directs material to the material return tube when set to PRIME or to spray hose when set to SPRAY.   |
| 5  | Suction tube                          | The suction tube draws the fluid from the original container into the pump.   |
| 6  | Material return tube                  | Fluid is sent out through the return tube and back into the original container when the PRIME/SPRAY knob is in the PRIME position.  |
| 7  | Inlet filter                          | The inlet filter is designed to prevent any debris that may be in the spray material from entering the pump.  |
| 8  | Spray gun                             | The spray gun controls the delivery of the material being pumped.   |
| 9  | Tip guard                             | The spray guard reduces the risk of injection injury.   |
| 10 | Spray tip                             | The spray tip atomizes the spray material and forms the spray pattern.  |
| 11 | Hose restraint                        | This retains the hose for easier use and storage.   |
| 12 | Spray hose                            | The spray hose connects the spray gun to the pump.  |
| 13 | Pusher stem                           | The pusher stem is designed to free the inlet valve which may become stuck due to dried materials. The pusher stem is activated manually by the user.                         |

## BEFORE YOU BEGIN



This section contains instructions that will be repeated throughout this manual. Read and understand this section before using the equipment.

### SPRAY GUN TRIGGER LOCK



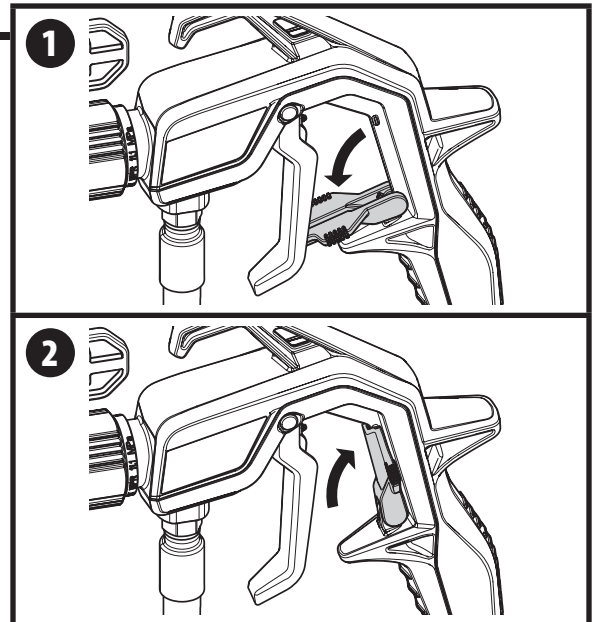
Be careful when handling the spray gun so you do not accidentally spray yourself.

The high pressure paint stream could pierce your skin causing serious injury. If an accident happens see detail procedures in the Safety Information section on pages 3-4.

See physician immediately and bring this instruction manual.

Engage the trigger lock whenever instructed.

1. To lock the trigger, flip the trigger lock down until it stops in place behind the trigger.
2. To unlock the trigger, flip the trigger lock up until it snaps into place on the gun handle.



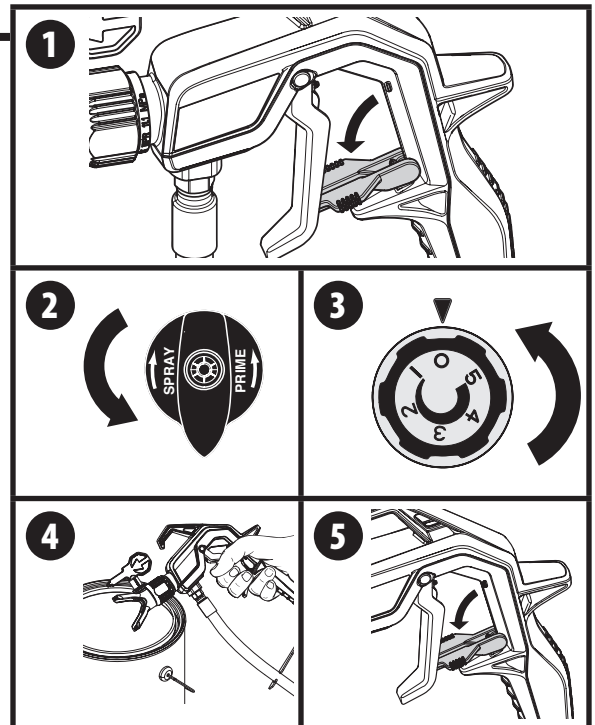
### PRESSURE RELIEF PROCEDURE



Be sure to follow the Pressure Relief Procedure when shutting the unit off for any purpose. This procedure is used to relieve pressure from the spray hose. Failure to do so could result in serious injury.

Perform the Pressure Relief Procedure whenever instructed.

1. Lock the spray gun (see "Spray Gun Trigger Lock", above).
2. Turn the PRIME/SPRAY knob to PRIME (see item 4, previous page).
3. Turn the power OFF (turn pressure control knob to "0").
4. Unlock the spray gun. Briefly pull the trigger to fully relieve pressure from the system.
5. Lock the spray gun.



# LOAD MATERIAL

**i** These steps will prime the system and get it ready to spray.

## YOU WILL NEED

- The material you plan to spray
- Extension cord
- Waste bucket

**i** **Recommendation:** It is good practice to perform the steps on this page using water to familiarize yourself with the function of the unit as well as to ensure the unit is set up properly.

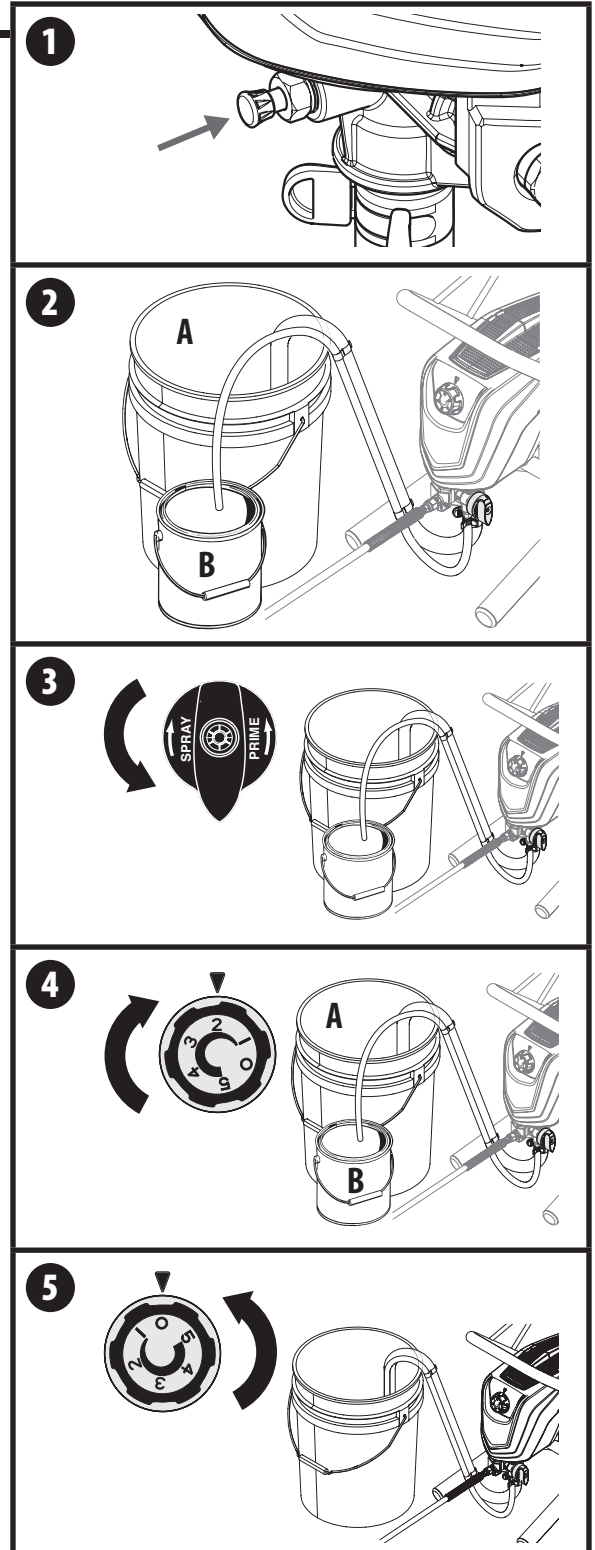
**i** **Recommendation:** Always use new spray material or material that has been thoroughly strained. Old material often contains debris that can clog the system.

**Attention** Take care to prevent material spills. Make sure to use drop cloths or mask anything that is in the spraying area and could accidentally be sprayed.

1. Fully depress the pusher stem to make sure the inlet ball is free.

**i** The pusher stem will only travel approximately 1/8" and will automatically return back to its original position once released.

2. Place a full container of spraying material underneath the suction tube (A). Hold the return tube into a waste container (B).
3. Turn the PRIME/SPRAY knob to PRIME.
4. Plug in the sprayer and slowly turn the pressure control knob clockwise to setting '2'.  
Allow pump to run until you see spray material flowing from the return tube (B).
5. Switch the pump OFF (0) by turning the pressure control knob completely counterclockwise.  
Place return tube back into material container and clip return tube and suction tube together.



# SPRAYING



Follow these steps to deliver spray material from the material container to the spray gun.

## YOU WILL NEED

- Waste bucket
- Scrap material / cardboard
- Drop cloths to protect floors and furnishings from overspray

**1. Make sure the tip guard is removed.** Point the spray gun into a separate waste container. Unlock the spray gun trigger.

**Squeeze and hold trigger for steps 2-3.**

**2.** Slowly turn the pressure control knob clockwise to setting '2'.

Turn the PRIME/SPRAY knob to SPRAY.

**3.** Continue to squeeze trigger until the material is flowing freely through the spray gun.

**4.** Perform the Pressure Relief Procedure, page 9.

**5.** Thread the spray tip guard assembly onto the gun.

Tighten by hand.

**6.** Make sure the spray tip is rotated forward to the spray position, with the arrow on the tip facing forward.

Unlock the spray gun trigger.

**7.** Slowly turn the pressure control knob clockwise to the maximum setting (5).

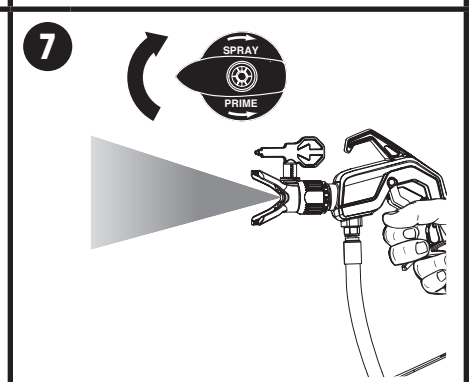
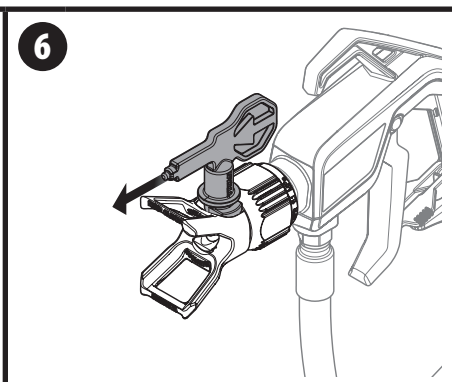
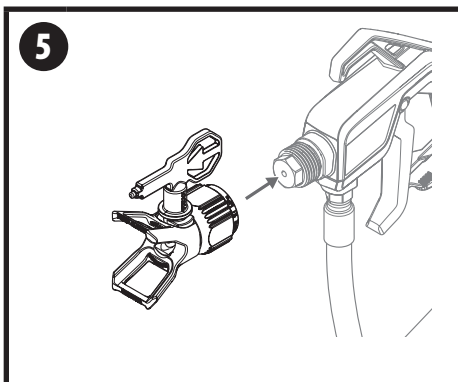
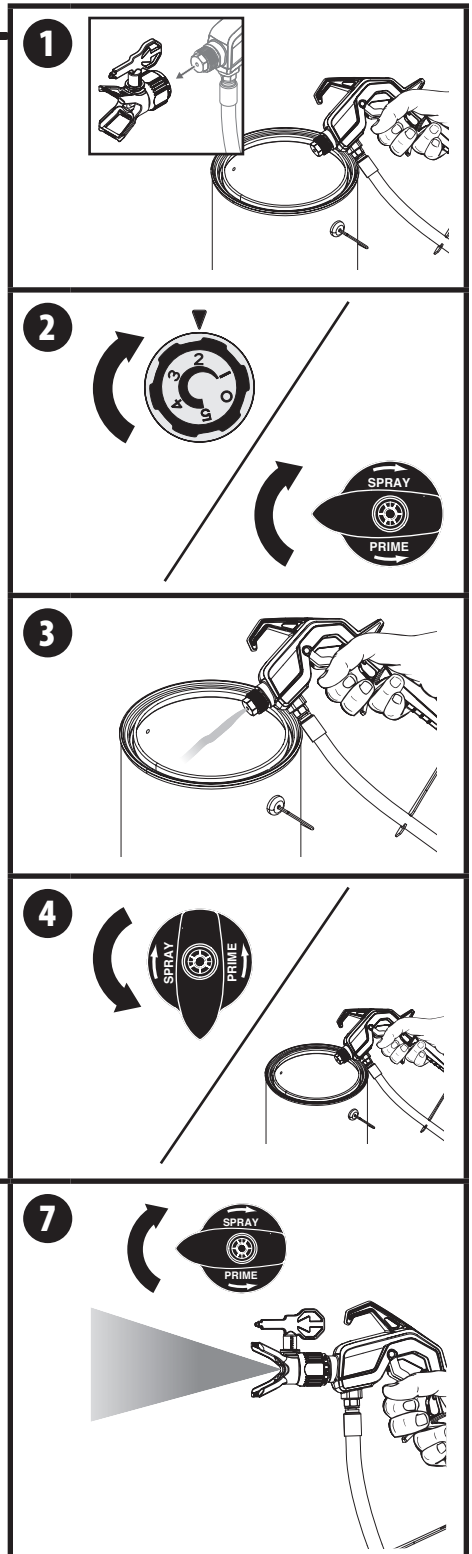
Turn the PRIME/SPRAY knob to SPRAY.

Point the spray gun at a piece of scrap material/cardboard.

Pull the trigger and practice spraying (see pages 12-13).



Motor will cycle ON and OFF while spraying to regulate pressure. This is normal.



# PRACTICE SPRAYING

**i** Prior to spraying, it is important that you are using the spray tip / spray material combination that it suitable for your spraying job.  
Refer to the chart below for a list of recommendations regarding spray tip size, spray material and pressure settings.

## CONTROL PRO TIP SELECTION CHART

| TIP SIZE       | COATINGS  |  |                                      |  |                                      |
|----------------|---|--|--------------------------------------|--|--------------------------------------|
|                | Interior stains<br>Interior and exterior<br>clears<br>Water sealers | Exterior solid stains<br>Acrylic sealers | Acrylics<br>Enamels<br>Polyurethanes | Latex primers<br>Interior latex paints | Oil primers<br>Exterior latex paints |
| 211            | ✓   |  |                                      |  |                                      |
| 311            | ✓   |  |                                      |  |                                      |
| 313            |   | ✓  | ✓                                    |  |                                      |
| 413            |   | ✓  | ✓                                    | ✓                                      |                                      |
| 515            |   |  | ✓                                    | ✓                                      | ✓                                    |
| 517            |   |  |                                      | ✓                                      | ✓                                    |
| 619            |   |  |                                      |  | ✓                                    |
| SPRAY PRESSURE | Low - Med<br>(setting 1-3)  | Med - High<br>(setting 3-5)              | Med - High<br>(setting 3-5)          | High<br>(setting 5)                    | High<br>(setting 5)                  |

**i** The chart above is a general guideline. Refer to coating manufacturer’s recommendations for airless sprayer tip sizes as well as guidelines for thinning the product to be sprayed.  
The graphics below show the difference between a good spray pattern versus a spray pattern that is poor or has “tailing”, which may be caused by the improper spray tip / spray material / spray pressure combination. For further causes of a poor spray problem, refer to the Troubleshooting section.

**GOOD SPRAY PATTERN**



**POOR SPRAY PATTERN (TAILING)**



# PRACTICE SPRAYING



If the spray pattern becomes distorted or stops spraying completely while the gun is triggered, follow any or all the procedures listed on pages 12-13.

If you plan to be away from your spray project for more than one hour, follow the Short Term Storage instructions on page 15.

If you have difficulty achieving a good spray pattern, your spray tip may not be ideal for the type of material you are spraying. Refer to "Troubleshooting" page, 22.

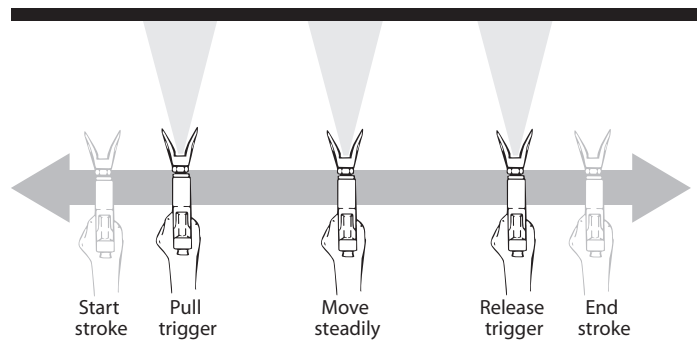
## YOU WILL NEED

- A surface to practice spraying (wood, cardboard or scrap drywall)

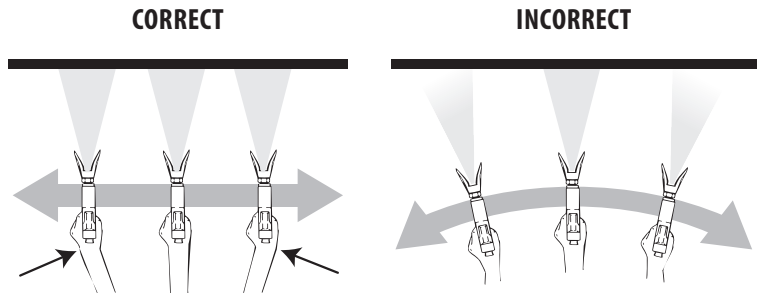
Trigger gun after starting the stroke. Release the trigger before ending the stroke.

The spray gun should be moving when the trigger is pulled and released.

Overlap each stroke by about 50%. This will ensure an even coating.



Flex your wrist as you move in order to keep gun parallel to the surface.



Hold the spray gun level.



The distance from the spray gun to the spray object should not exceed 18 inches.



Overlap your strokes.



## SPRAYING TROUBLESHOOTING - CLEAR THE SPRAY TIP



If the spray pattern becomes distorted or stops spraying completely while the gun is triggered, the spray tip could be clogged. Follow the steps below.

### YOU WILL NEED

- Scrap material / cardboard



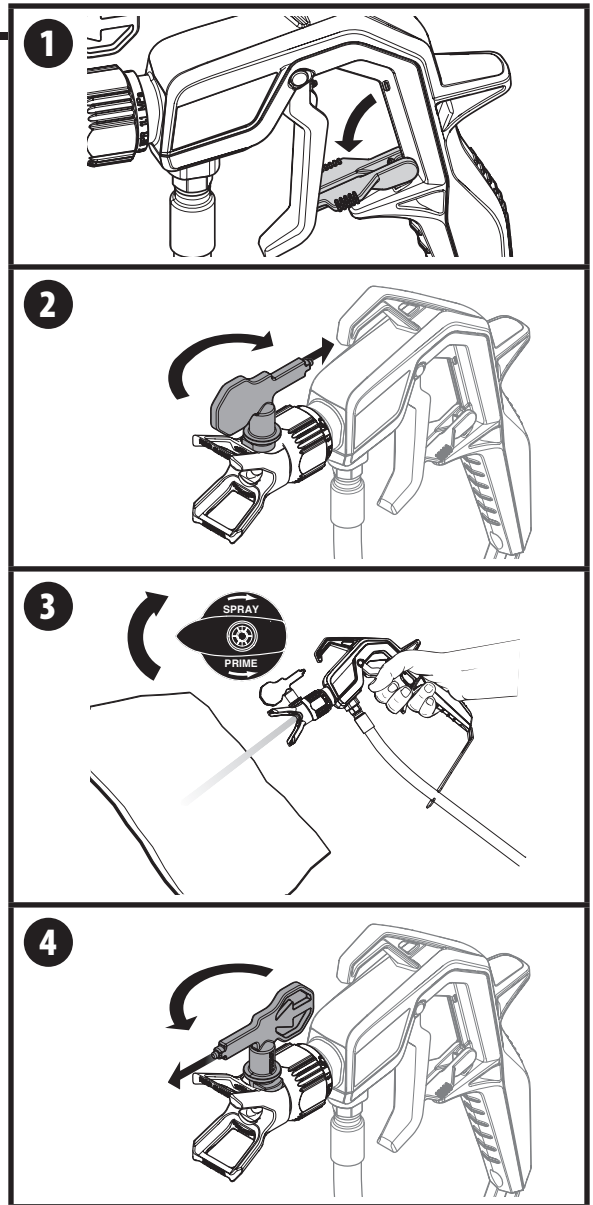
Do not attempt to unclog or clean the tip with your finger. High pressure fluid can cause injection injury.

1. Lock the spray gun.
2. Rotate spray tip 180 degrees from its current position.



If spray tip is difficult to rotate, relieve pressure by:  
1) slowly turn PRIME/SPRAY knob to PRIME,  
2) unlock the spray gun and  
3) squeeze trigger while pointing at scrap material / cardboard.  
Release trigger, lock the spray gun, and try rotating spray tip again.

3. Make sure the PRIME/SPRAY knob is turned to SPRAY.  
Unlock the spray gun.  
Point at a piece of scrap material / cardboard and squeeze trigger until material comes out in a high pressure stream. Release the trigger and lock the spray gun.
4. Rotate spray tip forward to the spray position.  
Unlock the spray gun and resume spraying.



## SPRAYING TROUBLESHOOTING - CLEAN THE INLET FILTER



If the spray pattern becomes distorted or stops spraying completely while the gun is triggered, the inlet filter could be clogged. Follow the steps below.

### YOU WILL NEED

- Warm, soapy water for latex material
- Mineral spirits for oil based materials

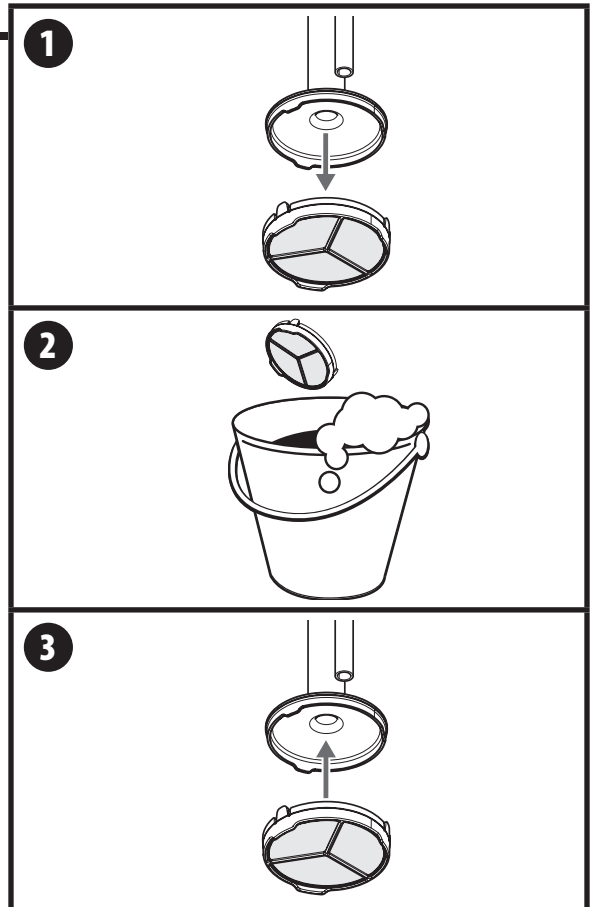


Make sure your floors and furnishings are covered with drop cloths to prevent accidental drips.

1. Remove the inlet filter by pulling it off the suction tube.
2. Clean the screen using the appropriate cleaning solution (warm, soapy water for latex materials, mineral spirits for oil-based materials).
3. Snap the inlet filter back into place.



If after completing all of the steps in Spraying Troubleshooting you are still experiencing problems spraying, refer to the Troubleshooting section (page 22).





# SHORT-TERM STORAGE



This procedure should be used when taking a short term break or when ending your project for the day. If your break is longer than 16 hours follow **Cleanup** instructions, pages 17-18.

## YOU WILL NEED

- Water
- Plastic bag
- Damp rags
- Stir stick



Instructions are for latex materials only! If using oil based material follow instructions for **Cleanup** on pages 17-18.

## SHUTDOWN

1. Perform the **Pressure Relief Procedure**, page 9.
2. Turn spray tip 90°. This will prevent air from drying out any spray material that may be inside the spray tip. Wrap spray tip in a damp rag and then place entire spray gun in plastic bag.
3. Pour 1/2 cup water slowly on the top of the paint to prevent the paint from drying.  
Place the entire spraying system out of the sun.

## STARTUP

4. Remove the spray gun from the plastic bag or the water. Turn the spray tip back to the spraying position.
5. If water was added during shut down, stir water into material with the stir stick.
6. Follow **Spraying** instructions, page 11.



# CLEANUP

## CLEANING NOTES - READ BEFORE CLEANING

- When using latex material, clean sprayer and components with warm, soapy water. For oil based material use mineral spirits. Never use mineral spirits with latex materials.
- NEVER use gasoline to clean sprayer.
- Dispose of used cleaning solution properly.
- Thorough cleaning and lubrication of sprayer is important to ensure proper operation after storage.
- If you flush your sprayer with mineral spirits, repeat Cleanup instructions using warm, soapy water.

## Follow these steps whenever cleaning with mineral spirits:

- If spraying or cleaning with oil-based materials, the spray gun must be grounded while preparing the spray hose or cleaning.
- Ground the gun by holding it against the edge of a metal container while purging. Failure to do so may lead to a static electric discharge which may cause a fire.
- Always flush spray gun at least one hose length from spray pump.
- If collecting flushed solvent in one gallon metal container, place it into an empty five gallon container, then flush.
- Area must be free from vapors.
- Follow all cleanup instructions.

## YOU WILL NEED

- Warm, soapy water if using latex material
- Mineral spirits if using oil-based material
- Empty waste container
- Soft-bristled brush



The suction tube may become discolored or cloudy after being used. This is normal.

1. Perform **Pressure Relief Procedure** (page 9).
2. Remove the tip guard from the spray gun.
3. Remove the spray tip from the tip guard. Place both into a container of the appropriate cleaning solution.

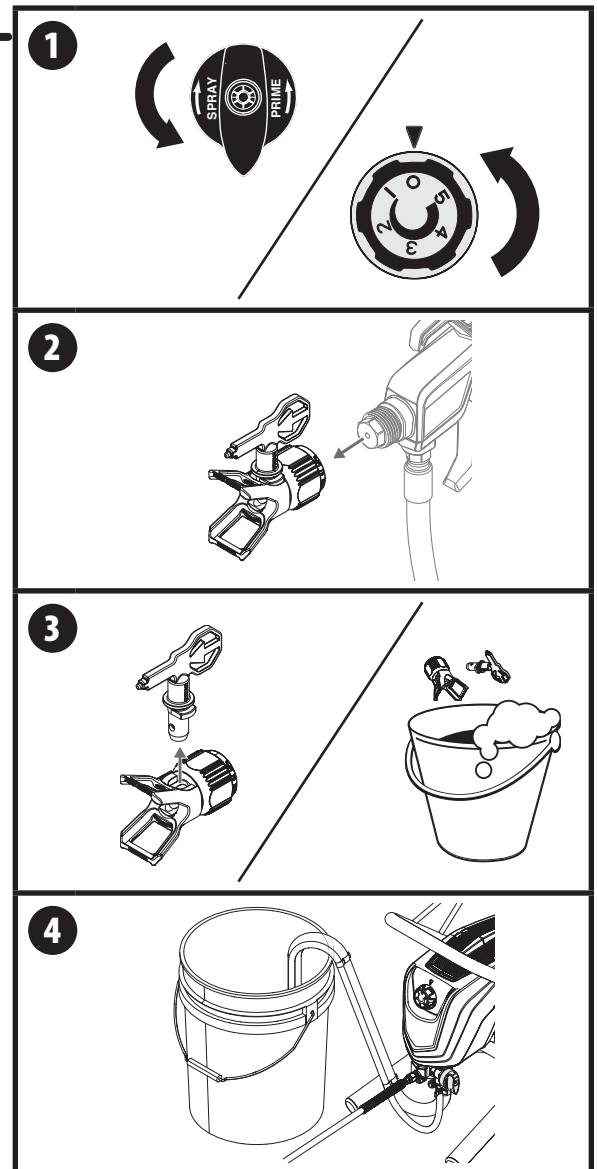


It is okay to place the spray tip and tip guard in the same container of cleaning solution that you will use in the following steps.

Allowing them to soak while flushing will make it easier to clean them afterwards.

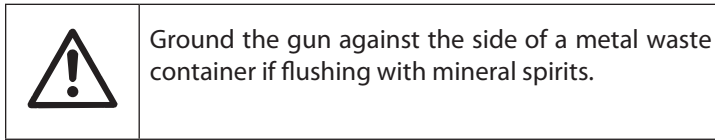
4. Submerge suction set into a bucket with the appropriate cleaning solution.

(Continued on the next page)



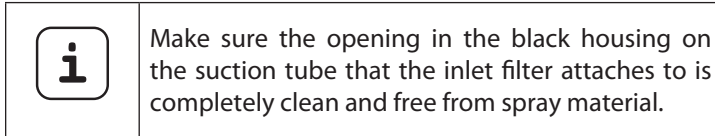
## CLEANUP - CONTINUED

5. Point the spray gun at the side of a waste container.

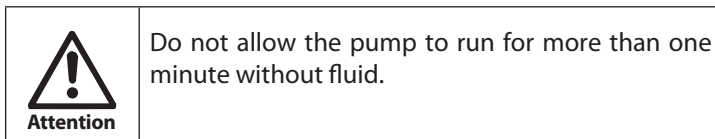


6. While squeezing the trigger, turn the pressure control knob to '2', and turn the PRIME/SPRAY knob to SPRAY.
7. Continue squeezing the trigger until fluid is coming out clear. You may need to get new cleaning solution.
8. Perform Pressure Relief Procedure, page 9.
9. Remove the inlet filter by pulling it off the suction tube. Clean by hand using a soft-bristled brush.

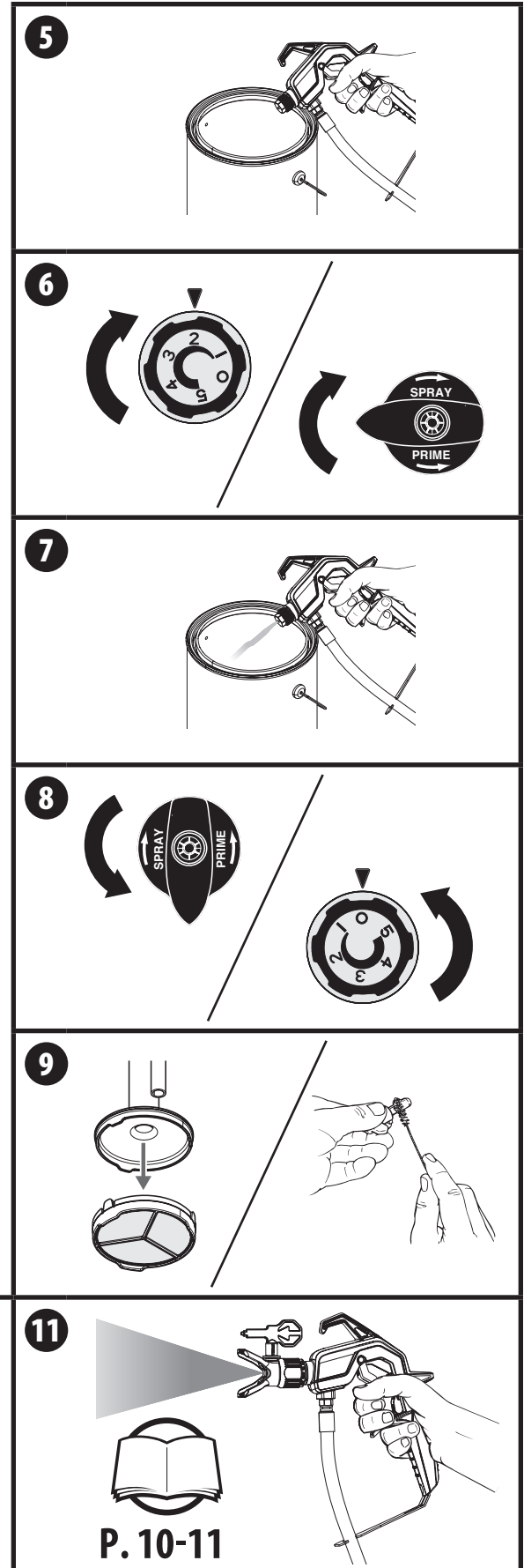
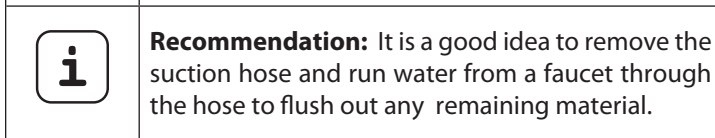
Remove the tip guard and spray tip from the cleaning solution. Clean by hand using a soft bristled brush.



10. Reattach both the inlet filter and spray tip/tip guard assembly.
11. **IMPORTANT STEP:** Fill a bucket with warm, soapy water. Following the "Load Material" and "Spraying" sections, spray at least one gallon of warm, soapy water. This will ensure that the spray tip will be completely clean for the next use.



Attention



# LONG TERM STORAGE



Follow these steps to prepare your sprayer for long-term storage.

## YOU WILL NEED

- Light household oil / All Guard
- Rags
- Two adjustable wrenches

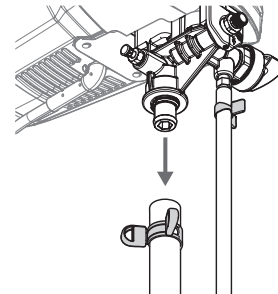
1. Remove the suction tube.
2. Place a wrench on the outlet valve to secure it. Using the second wrench, remove the spray hose.
3. Fill a cup or other container with two ounces of All Guard and submerge the inlet valve (a) into the oil.  
A light oil can be substituted (such as 10W30 motor oil or vegetable oil for example).
4. Cover the outlet valve with a rag. Turn the pressure control knob to '2' and let the pump run for five seconds.  
Turn power OFF.
5. Replace suction tube.
6. Wipe entire unit, hose, and spray gun to remove accumulated spray material.



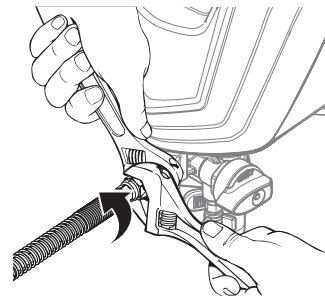
Attention

Store the unit indoors with the power cord wrapped around the cart handle or stand.

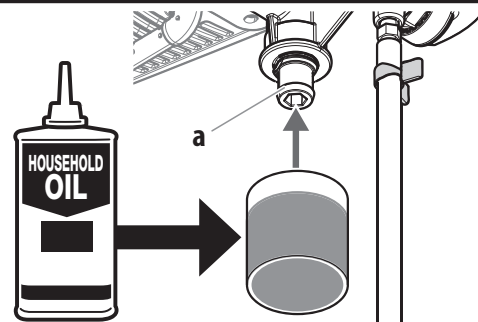
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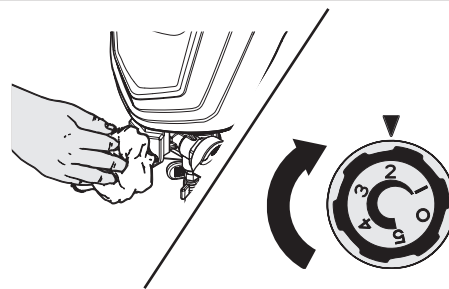
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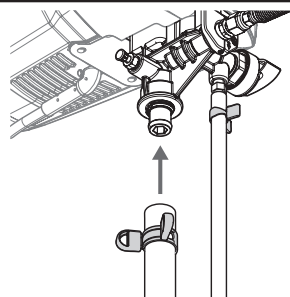
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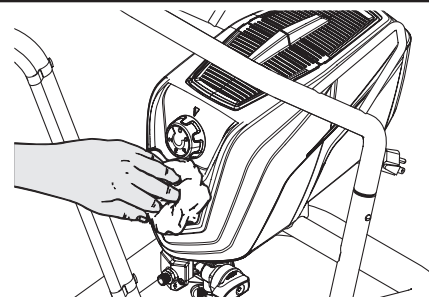
4



5



6



# CLEANING THE INLET VALVE



Cleaning or servicing the inlet valve may be required if the unit has priming problems. Priming problems may be prevented by properly cleaning the sprayer and following the long-term storage steps.

## YOU WILL NEED

- Adjustable wrench or 10 mm allen wrench
- Warm, soapy water if using latex material
- Mineral spirits for oil based material
- Petroleum jelly

1. Remove the suction tube.
2. Place a wrench on the flats of the inlet valve fitting (a), or insert a 10 mm allen wrench into the hex opening. Unscrew the inlet valve fitting from the sprayer. Remove the inlet valve seat (b), O-ring (c) inlet valve ball (d) and spring (e). **Take care not to lose any removed parts.**

Visually inspect the removed parts, as well as the inside and outside of the inlet valve fitting. Inspect the inlet valve housing area where the inlet valve assembly was removed.

Clean any paint residue in these places with the appropriate cleaning solution.

3. Lubricate the O-ring (c) on the inlet valve with petroleum jelly. Replace all parts back into the inlet valve housing in the reverse order of how they were removed. Note the correct orientation of the inlet valve seat (b). Replace inlet valve assembly by screwing it into the sprayer. Tighten with a wrench.



Do not overtighten the inlet valve fitting (torque to 120-150 in.-lbs).

Attention

4. Replace suction tube.



If priming problems persist, you may need to replace the inlet valve assembly. Call Technical Service (1-800-328-8251) to order a new inlet valve assembly.

