

ASSEMBLY



Do not plug in the power cord until assembly is complete.

TOOLS NEEDED

- Two 6" adjustable wrenches

1. Attach the tool box doors to the top of the sprayer as shown. Snap one peg into one of the orifices, and then snap the other peg into the other orifice. The pegs on the ends will snap into the orifices on the unit.

2. STAND MODELS - Attach the handle:

Metal Frame - Line up the handle with the frame as shown. Push the snap buttons on each side and drop the handle into the frame. The snap-buttons will secure the handle into place.

Plastic Frame - Align the handle to the tabs on the unit and press into place until it snaps (no snap buttons).



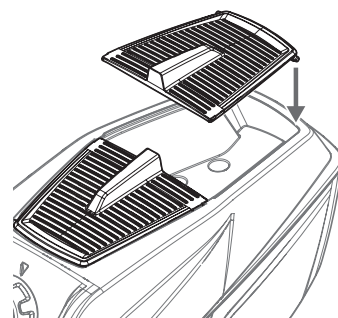
Plastic Frame - Do not attempt to remove the plastic handle. Removal can damage the snap connection.

3. CART MODEL - Pull out the handle from the cart frame. Once it reaches its maximum height, it will snap into place. To push it back into the frame, push the snap buttons on the back of the frame.

4. Remove the plug from inside the hose fittings and remove the cap on the spray hose port. Discard both.

5. Thread one end of the high pressure spray hose to the spray hose port. Hold the port with an adjustable wrench, and tighten the hose with the other. Do not over-tighten.

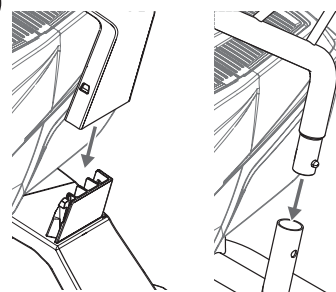
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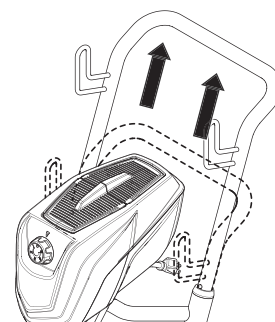
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PLASTIC

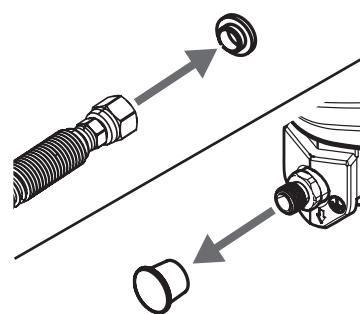
METAL



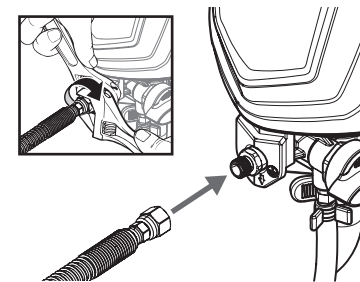
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ASSEMBLY (CONTINUED)



The spray gun included with the sprayer will have one of two types of hose restraint:

- 1) the “C” type where the hose is clamped, or
- 2) the circular type where the hose gets threaded through a hole in the restraint.

When attaching the hose to the spray gun, follow the appropriate steps to properly secure the spray hose.

6. “C” type:

- a. Spin the gun onto the male fitting on the other end of the spray hose. Turning the gun instead of the hose will make it easier to align the threads. Tighten the hose end with a wrench.
- b. Press the hose into the opening in the restraint at the bottom of the gun handle. The hose will flex slightly to fit through the smaller opening and then “pop” into place with no strain remaining on the hose.



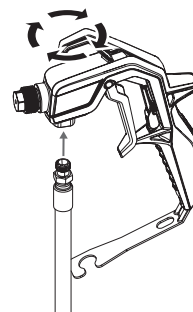
Do not kink the hose when attaching it to the gun or when placing it into the restraint.

7. Circular type:

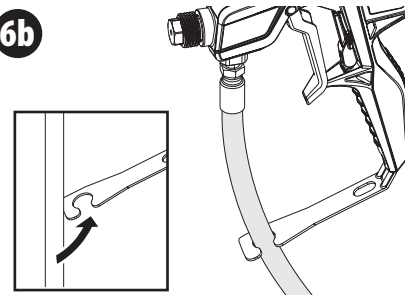
Thread the end of the hose through the hole in the restraint and into the bottom of the spray gun body as shown. Spin the gun onto the male fitting of the spray hose.

8. Slide the suction tube onto the inlet valve. Secure with the suction tube clamp.
9. Press the return tube onto the return tube fitting. Squeeze hose clamp over the return tube fitting to secure the return tube.

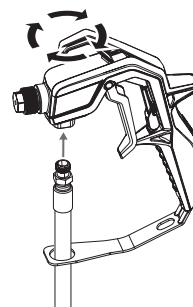
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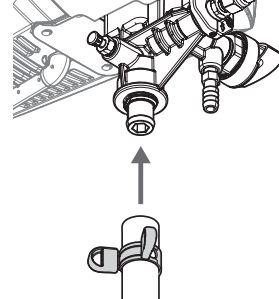
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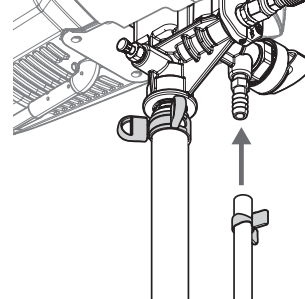
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BEFORE YOU BEGIN



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

SPRAY GUN TRIGGER LOCK



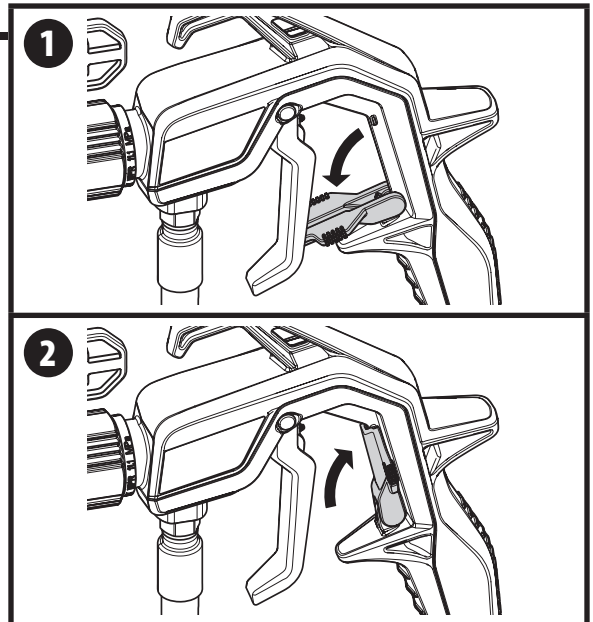
Be careful when handling the spray gun so you do not accidentally spray yourself.

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.



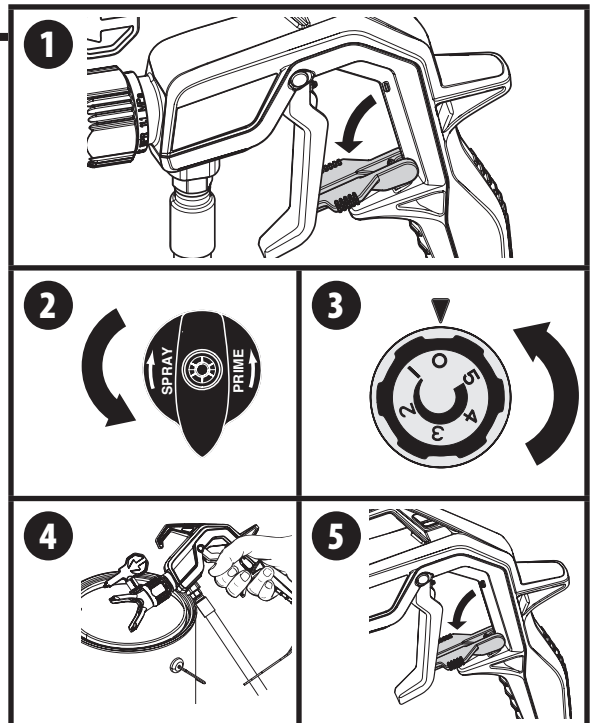
PRESSURE RELIEF PROCEDURE



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.
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



These steps will prime the system and get it ready to spray.
www.wagnercontrolpro.com/howto

YOU WILL NEED

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



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.



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



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.



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).

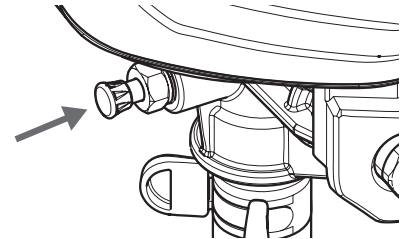


If you do not see material being drawn up through the suction tube (A) or flowing from the return tube (B), tap the hose connection (at the pump) with a mallet. If unit still not drawing material, refer to Troubleshooting, section B.

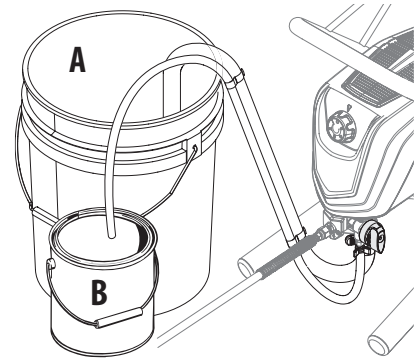
5. Switch the pump OFF (0) by turning the pressure control knob completely counterclockwise.

Place return tube back into material container and clip return tube and suction tube together.

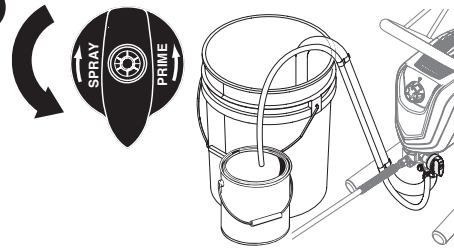
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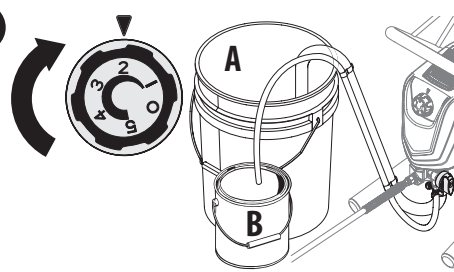
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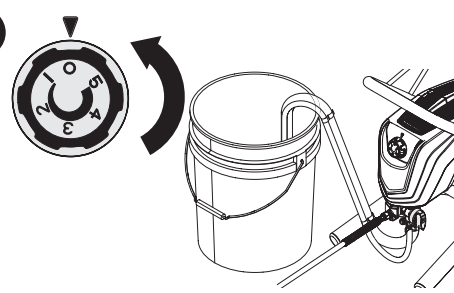
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SPRAYING



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 10.

5. Make sure the spray gun trigger is locked. 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.

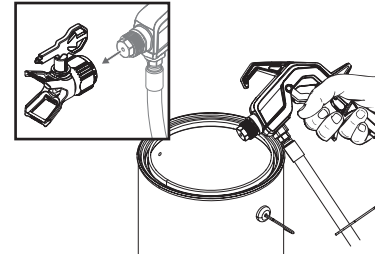
Point the spray gun at a piece of scrap material/cardboard.

Pull the trigger and practice spraying (see pages 13-14).

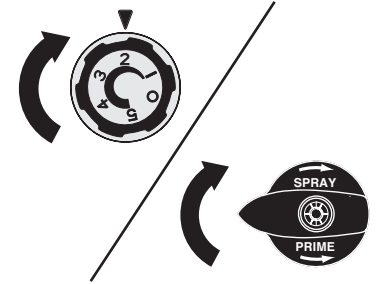


Motor will cycle ON and OFF while spraying to regulate pressure. This is normal.

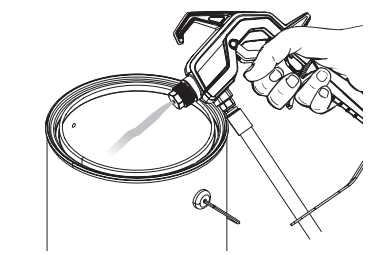
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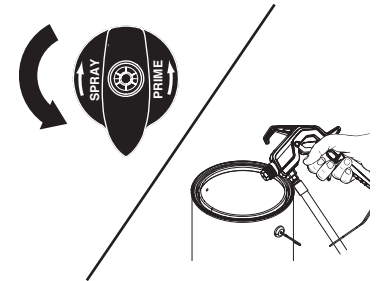
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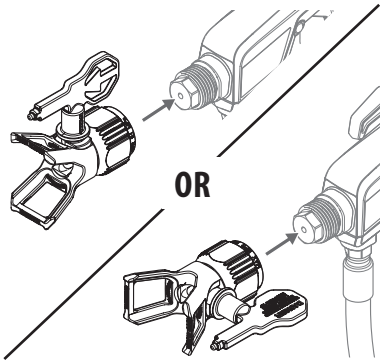
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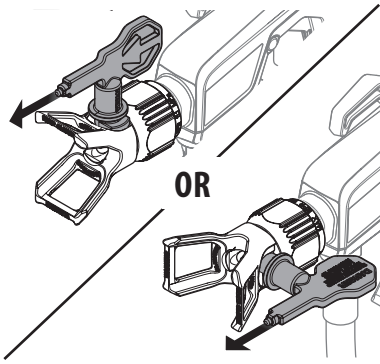
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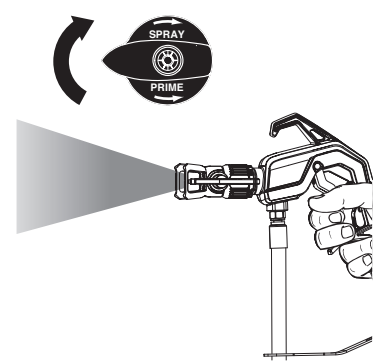
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PRACTICE SPRAYING



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

				COATINGS				
150	170	190	TIP SIZE	Interior stains Interior and exterior clears Water sealers	Exterior solid stains Acrylic sealers	Acrylics Enamels Polyurethanes	Latex primers Interior latex paints	Oil primers Exterior latex paints
✓	✓	✓	211	✓				
✓	✓	✓	311	✓				
✓	✓	✓	313		✓	✓		
✓	✓	✓	413		✓	✓	✓	
✓	✓	✓	515			✓	✓	✓
	✓	✓	517				✓	✓
		✓	619					✓
SPRAY PRESSURE				Low - Med (setting 1-3)	Med - High (setting 3-5)	Med - High (setting 3-5)	High (setting 5)	High (setting 5)



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 (CONTINUED)



If the spray pattern becomes distorted or stops spraying completely while the gun is triggered, follow any or all the procedures listed on pages 15-16.

If you plan to be away from your spray project for more than one hour, follow the Short Term Storage instructions on page 17.

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, 23.

YOU WILL NEED

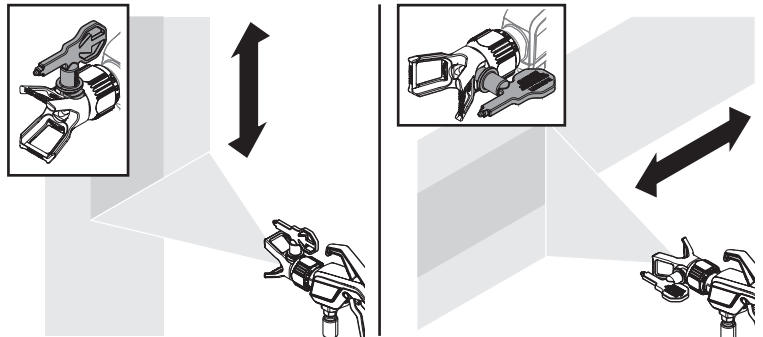
- A surface to practice spraying (wood, cardboard or scrap drywall)

While spraying, the spray guard / tip assembly can be rotated to better suit your spraying motion.



Lock the spray gun trigger prior to rotating the spray guard / tip assembly.

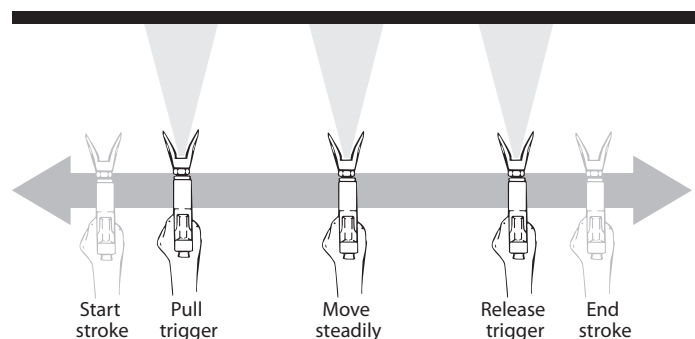
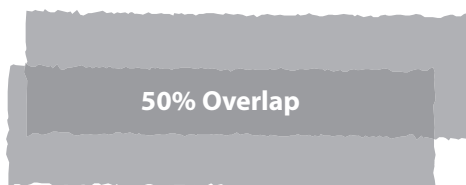
Make sure the spray guard nut is not loosened after rotating.



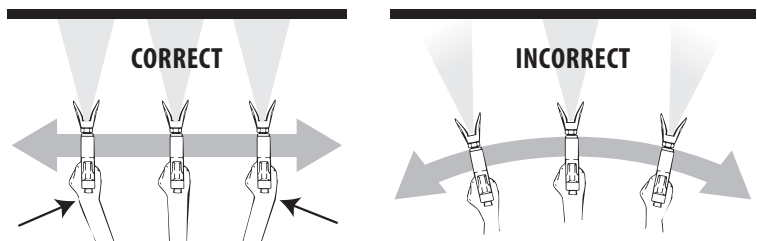
Trigger gun after starting the stroke. Release the trigger before ending the stroke.

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.



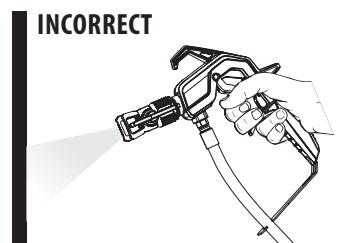
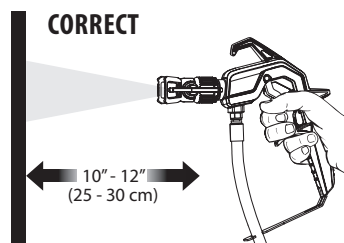
Flex your wrist as you move in order to keep gun parallel to the surface.



Hold the spray gun level.



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



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.

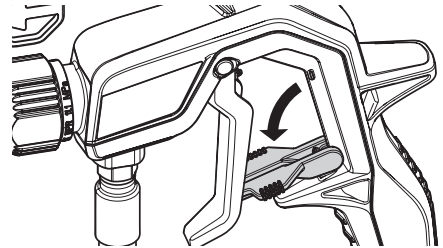
1. Lock the spray gun.
2. Rotate spray tip 180 degrees from its current position.



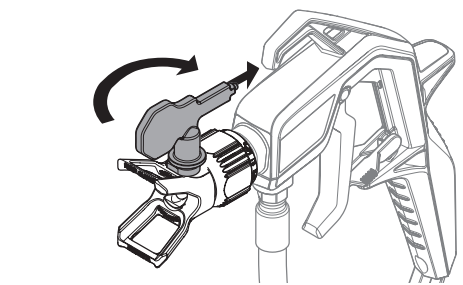
If spray tip is difficult to rotate, relieve pressure by:
1) slowly turn PRIME/SPRAY knob to PRIME,
2) unlock the spray gun and
3) squeeze trigger while pointing at scrap material / cardboard.
Release trigger, lock the spray gun, and try rotating spray tip again.

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.

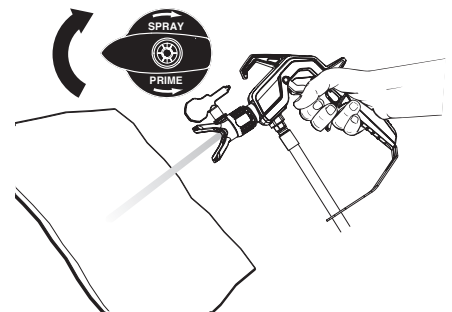
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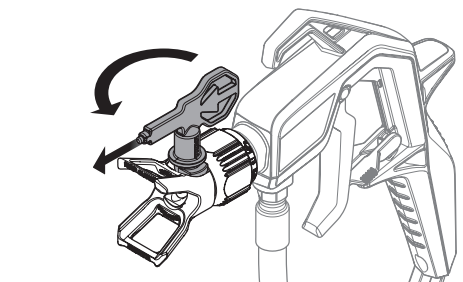
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SPRAYING TROUBLESHOOTING - CLEAN THE INLET FILTER



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



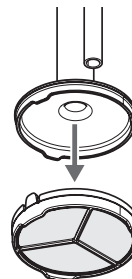
Make sure your floors and furnishings are covered with drop cloths to prevent accidental drips.

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 23).

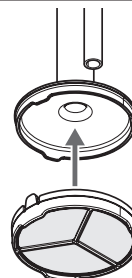
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SHORT-TERM STORAGE



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 18-19.

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 18-19.

SHUTDOWN

1. Perform the **Pressure Relief Procedure**, page 10.
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 12.



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.

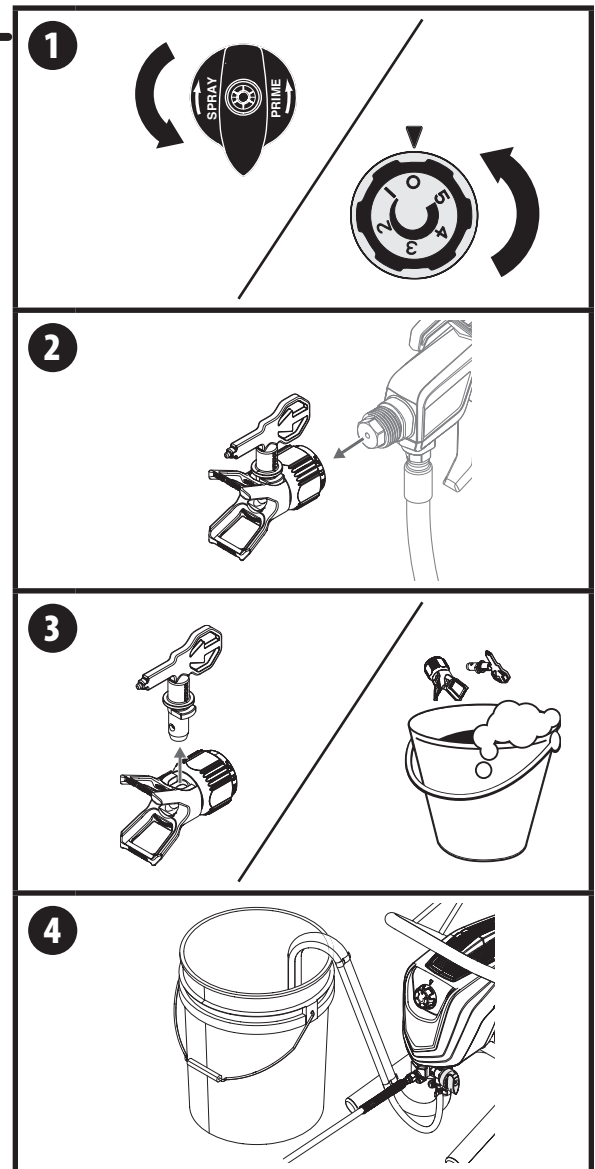
1. Perform **Pressure Relief Procedure** (page 10).
2. Remove the tip guard from the spray gun.
3. Remove the spray tip from the tip guard. Place both into a container of the appropriate cleaning solution.



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.



Ground the gun against the side of a metal waste container if flushing with mineral spirits.

While squeezing the trigger, turn the pressure control knob to '2', and turn the PRIME/SPRAY knob to SPRAY.

6. Continue squeezing the trigger until fluid is coming out clear. You may need to get new cleaning solution.
7. Perform **Pressure Relief Procedure**, page 10.
8. 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.



Make sure the opening in the black housing on the suction tube that the inlet filter attaches to is completely clean and free from spray material.

9. **IMPORTANT STEP:** Fill a bucket with warm, soapy water. Following steps 5-7 in the "Spraying" section, spray at least one gallon of warm, soapy water. This will ensure that the spray tip will be completely clean for the next use.
10. Perform **Pressure Relief Procedure**, page 10. Remove the suction tube. Run water from a faucet through the tube to flush out any remaining material. Do not reinstall the suction tube.
11. Remove the spray tip assembly.

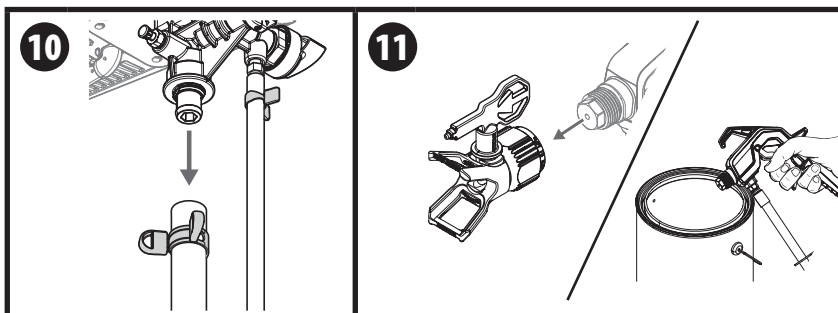
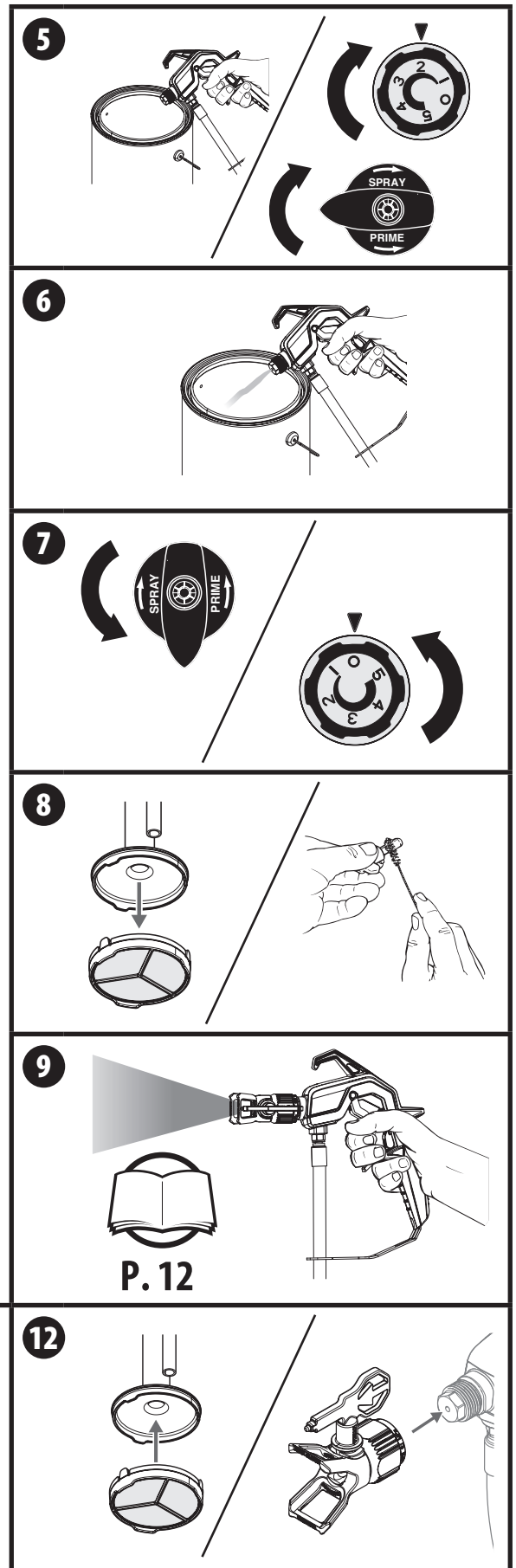
Repeat step 5 from above, continuing to squeeze the trigger until no fluid comes from the gun (this will purge any remaining water in the spray hose).

Turn PRIME/SPRAY knob to PRIME. Turn power OFF.



Do not allow the pump to run for more than one minute without fluid.

12. Reattach both the inlet filter and spray tip/tip guard assembly.



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



The suction tube should still be removed from the end of the previous section and the PRIME/SPRAY knob should be in the PRIME position.

1. Remove the spray hose from the spray gun. Tip the spray gun upside down and pour a few drops of All Guard inside the gun housing.

A light oil can be substituted (such as 10W30 motor oil or vegetable oil for example).

2. Place a wrench on the outlet valve to secure it. Using the second wrench, remove the spray hose.

3. Carefully tip the sprayer upside down (for cart units, retract the handle). Pour a few ounces of All guard into the inlet valve (a).

A light oil can be substituted (such as 10W30 motor oil or vegetable oil for example).

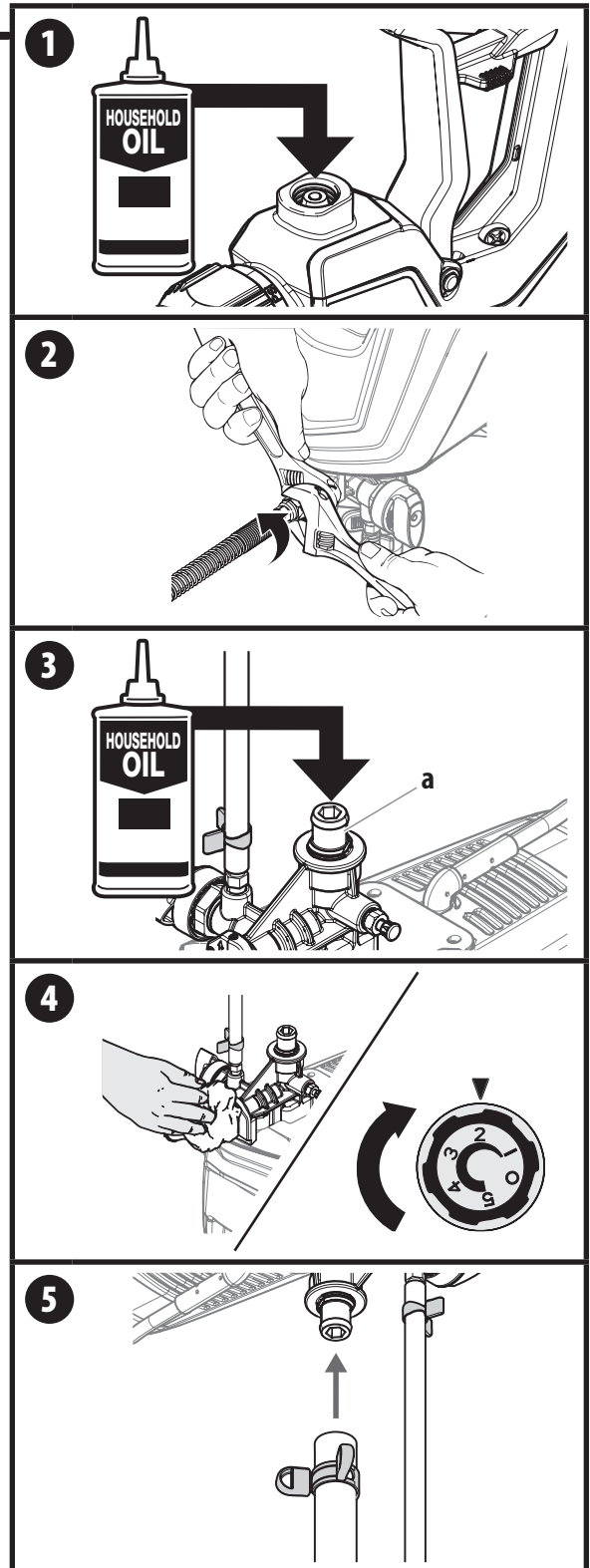
4. Cover the outlet valve with a rag. Turn the pressure control knob to '2' and let the pump run for five seconds.

Turn power OFF.

5. Replace suction tube. Wipe entire unit, hose, and spray gun to remove accumulated spray material.



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



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.



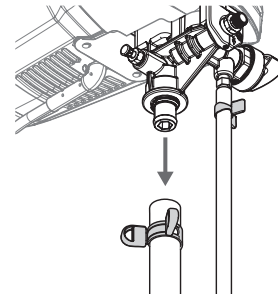
Do not overtighten the inlet valve fitting (torque to 120-150 in.-lbs).

4. Replace suction tube.

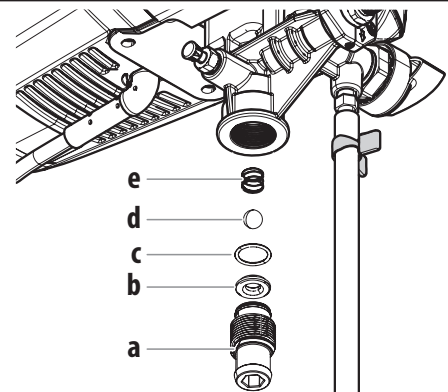


If priming problems persist, you may need to replace the inlet valve assembly. Call Technical Service (1-800-328-8251) to order a new inlet valve assembly.

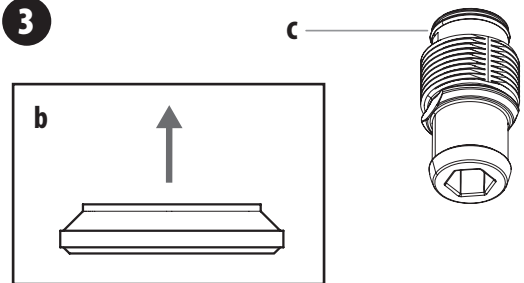
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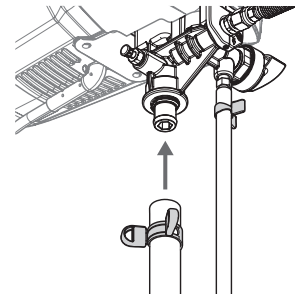
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4



CLEANING THE OUTLET VALVE



Cleaning or servicing the outlet valve may be necessary if spray performance remains poor after following the steps in the Troubleshooting section. Call Technical Service (1-800-328-8251) to order a new outlet valve assembly.

YOU WILL NEED

- Two 6" adjustable wrenches
- 2.5 mm allen wrench
- Warm, soapy water if using latex material
- Mineral spirits for oil based material

1. Place a wrench on the outlet valve to secure it. Using the second wrench, remove the spray hose.
2. Loosen **(but do not remove)** the set screw just underneath the outlet valve with a 2.5 mm allen wrench.
3. Unscrew outlet valve from outlet valve housing using wrench. Remove any accumulated material inside outlet valve housing using appropriate solution for material being used.

Pay particular attention to the ball and seat area at the end of the outlet valve (opposite the hose end). Remove any accumulated material.



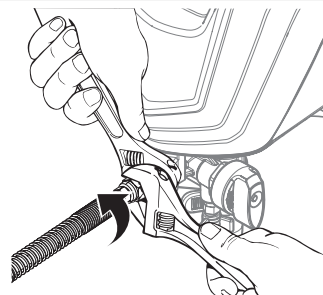
Recommendation: If used with latex-based paints, flush out the outlet valve with water from a faucet.

4. Replace with new or cleaned outlet valve and tighten with wrench. Do not over tighten. Torque to 90-110 in-lbs.
5. Tighten the set screw to secure the outlet valve. Do not over tighten. Torque to 20-25 in-lbs.

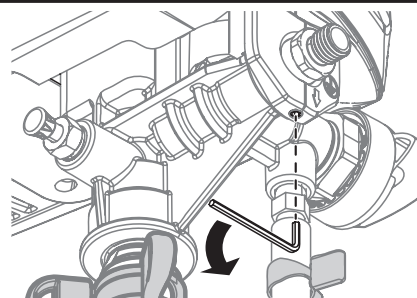


It is very important to tighten the set screw to ensure proper grounding of the hose and gun

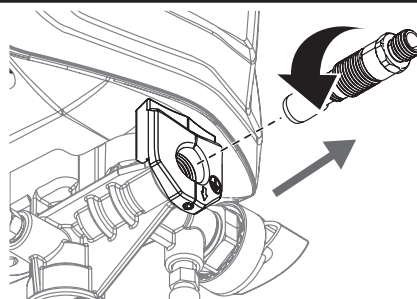
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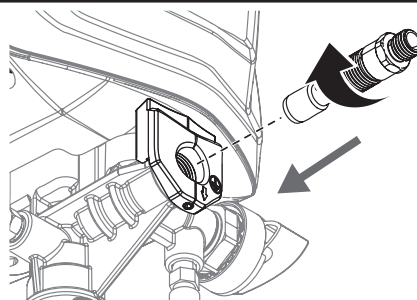
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