

TITAN™

High Performance Airless Sprayer Model XT440

Owner's manual: Read this manual for complete instructions

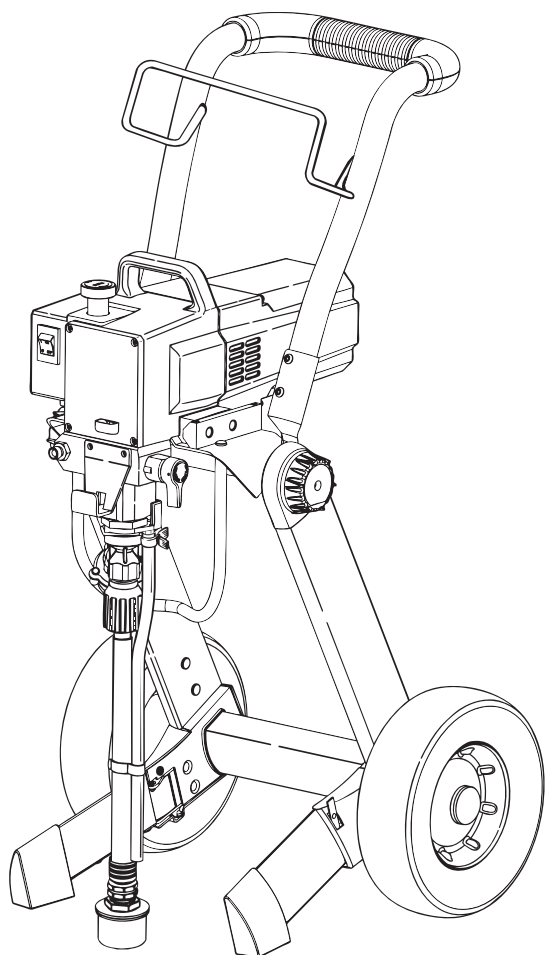


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1-866-Titan XT
(1-866-848-2698)

Titan Technical Service

Visit us on the world wide web!

www.titan-xt.com

1770 Fernbrook Lane, Plymouth, MN 55447

Need Help? Call us first for answers fast. Call toll-free if you have any comments or problems with this product, or if you wish to order replacement parts.

**Technical service hours: Monday through Friday, 8:00 am to 7:00 pm Central Time
Saturday, 9:00 am to 3:30 Central Time**



Important Safety Information • Read all safety information before operating the equipment. Save these instructions



To reduce the risks of fire or explosion, electrical shock and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

HAZARD: INJECTION INJURY

A high pressure paint stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation. SEE A PHYSICIAN IMMEDIATELY.

DO NOT TREAT AN INJECTION INJURY AS A SIMPLE CUT! Injection can lead to amputation. See a physician immediately.

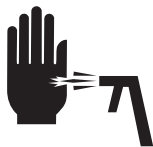
The maximum operating range of the gun is 3600 PSI/248 BAR fluid pressure.

PREVENTION:

- NEVER aim the gun at any part of the body.
- Do not aim the gun at, or spray any person or animal.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the pump off, and release all pressure before servicing, cleaning the tip or guard, changing tip, or leaving unattended. Pressure will not be released by turning off the motor. The PRIME/SPRAY knob must be turned to PRIME to relieve the pressure. Refer to the PRESSURE RELIEF PROCEDURE (page 7) described in the pump manual.
- ALWAYS keep the tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- Paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use. Do not use hose to lift or pull equipment.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above 3000 PSI/207 BAR. This includes spray tips, guns, extensions, and hose.

NOTE TO PHYSICIAN:

Injection into the skin is a traumatic injury. It is important to treat the injury as soon as possible. DO NOT delay treatment to research toxicity. Toxicity is a concern with some coatings injected directly into the blood stream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.



HAZARD: HAZARDOUS VAPORS

Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with the body. Vapors can cause severe nausea, fainting, or poisoning.

PREVENTION:

- Use a respirator or mask if vapors can be inhaled. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- Wear protective eyewear.
- Wear protective clothing as required by coating manufacturer.



HAZARD: EXPLOSION OR FIRE

Solvent and paint fumes can explode or ignite. Property damage and/or severe injury can occur.

PREVENTION:

- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors. Solvent and paint fumes can explode or ignite.
- Do not spray in a confined area.
- Avoid all ignition sources such as static electric sparks, open flames, pilot lights, electrical appliances, and hot objects. Connecting or disconnecting power cords or working light switches can make sparks. Paint or solvent flowing through the equipment is able to result in static electricity.
- Do not smoke in spray area.
- Fire extinguisher must be present and in good working order.
- Place paint pump at least 20 feet from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Keep area clean and free of paint or solvent containers, rags and other flammable materials.
- Use only conductive or grounded high pressure fluid hose. Gun must be grounded through hose connections.
- Power cord must be connected to a grounded circuit.
- Always flush unit into a separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.
- Follow the material and solvent manufacturer's warnings and instructions. Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- Use extreme caution when using materials with a flashpoint below 70°F (21°C). Flashpoint is the temperature that a fluid can produce enough vapors to ignite.
- Plastic can cause static sparks. Never hang plastic to enclose a spray area. Do not use plastic drop cloths when spraying flammable materials.
- Use lowest possible pressure to flush equipment.
- Do not spray onto pump assembly.



HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS

Will cause property damage or severe injury.

PREVENTION:

- Do not use materials containing bleach or chlorine.
- Do not use halogenated hydrocarbon solvents such as bleach, mildewcide, methylene chloride and 1,1,1 - trichloroethane. They are not compatible with aluminum.
- Contact your coating supplier about the compatibility of material with aluminum.





Important Safety Information • Read all safety information before operating the equipment. Save these instructions



HAZARD: GENERAL

Can cause severe injury or property damage.

PREVENTION:

- Read all instructions and safety precautions before operating equipment.
- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly part 1910 of the General Standards and part 1926 of the Construction Standards should be consulted.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety requirements of the pump manufacturer.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another grounded high-pressure hose.
- All hoses, swivels, guns, and accessories must be pressure rated at or above 3000 PSI/207 BAR.
- Do not spray outdoors on windy days.
- Wear clothing to keep paint off skin and hair.
- Do not operate or spray near children. Keep children away from the equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.

Important Electrical Information

NOTE - Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A 14 or 12 gauge cord is recommended (see chart below). If an extension cord is to be used outdoors, it must be marked with the suffix W-A after the cord type designation. For example, a designation of SJTW-A would indicate that the cord would be appropriate for outdoor use.

Cord gauge	Maximum cord length
12	150 feet
14	100 feet

Do not use more than 100 feet of spray hose. If you need to spray further than 100 feet from your power source, use more extension cord, not more spray hose.

NOTE - THE XT440 SERIES UNIT IS PROVIDED WITH MANUAL BREAKER. IN CASE OF ELECTRICAL OVERLOAD, PRESS THE BUTTON ON THE BOTTOM OF THE SPRAYER.

- Always disconnect the motor from the power supply before working on the equipment.

Grounding Instructions

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠ WARNING

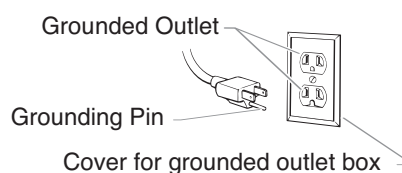


Improper installation of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the green grounding wire to either flat blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the grounding wire and must be connected to the grounding pin.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a nominal 120 volt circuit and has a grounding plug that looks like the plug illustrated below. Make sure that the product is connected to an outlet having the same configuration as the plug. **No adapter should be used with this product.**



If you experience problems with your sprayer at any time during assembly, operation, or cleanup, please refer to the Troubleshooting section of this manual (page 21), or call customer service at:

**1-866-Titan XT
(1-866-848-2698)**

Components and Description

Components

The shipping carton for your painting system contains the following:

- Suction tube and return tube
- 50' , 1/4" diameter pressure hose
- Spray gun with filter
- Separating Oil
- Spray tip assembly
- Instruction manual

Controls and Functions

ON/OFF Switch The ON/OFF switch turns the power to the sprayer on and off (O=OFF, I=ON).

Suction tube Fluid is drawn through the suction tube into the pump.

Fluid Section A piston in the fluid section moves up and down to create the suction that draws fluid through the suction tube.

Spray Gun The spray gun controls the delivery of the fluid being pumped. The gun model you have depends on your sprayer model.

Spray Hose The spray hose connects the gun to the pump.

Return Tube Fluid is sent back out through the return tube to the original container when PRIME/SPRAY knob is in PRIME position.

PRIME/SPRAY Knob The PRIME/SPRAY knob directs fluid to the spray hose when set to **SPRAY** or the return tube when set to **PRIME**. The arrows on the PRIME/SPRAY knob shows the rotation directions for PRIME and SPRAY.

The PRIME/SPRAY knob is also used to relieve pressure built up in the spray hose (see **Pressure Relief Procedure**, page 7).

Pressure Control Knob . . . The pressure control knob regulates the amount of force the pump uses to push the fluid.

Sprayer Filter This filters the spray material prior to it reaching the spray gun to help prolong spray tip life.

Sureflo™ valve The Sureflo™ valve is designed to keep the inlet valve open and from sticking due to dried materials. The Sureflo™ valve is activated automatically every time you turn the ON/OFF switch ON.

Manual breaker In case the sprayer shuts down due to an electrical overload, unplug the power cord and press the button on the bottom of the sprayer.

Specifications

Capacity Up to .44 gallon (1.66 liter) / minute

Power source 7/8 Hp permanent magnet DC motor

Power requirement 15 amp minimum circuit on 115 VAC, 60 Hz current.

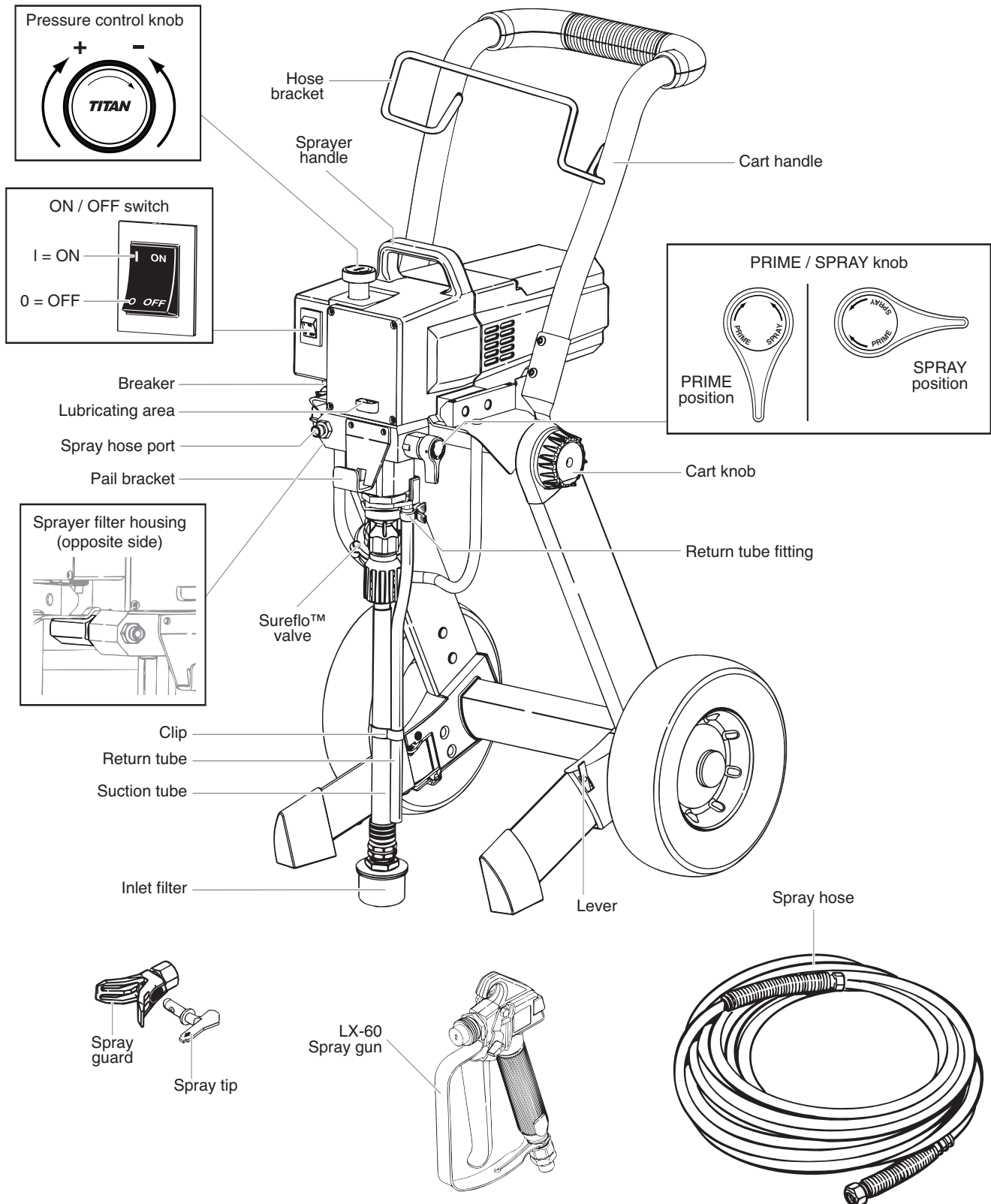
Generator power requirement 8000 Watt.

Safety features Spray gun trigger lock and pressure diffuser; built-in tip safety guard; PRIME/SPRAY knob for safe pressure release.

Capability Sprays a variety of paints, primers, stains, preservatives and other nonabrasive materials, including pesticides and liquid fertilizers.

This pump should not be used with textured materials, block filler, or asphalt sealer.

Components and Description



Assembly

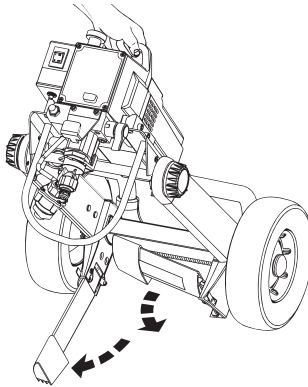


WARNING Do not plug in the sprayer until setup is complete.

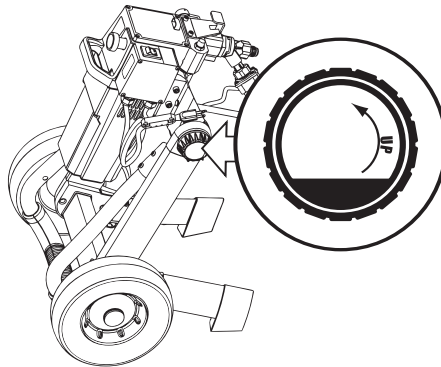
Tools needed for assembly:

- Two adjustable wrenches

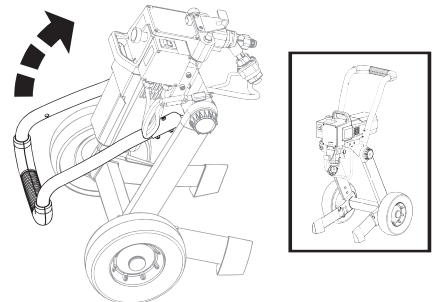
1. Grab the sprayer handle to lift up the sprayer. Unfold the legs until they lock into place.



2. Twist the knob on either side of the cart toward the "UP" arrow until it stops.

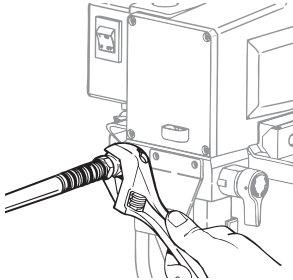


3. Lift the cart handle until the motor housing and handle locks into place. **Be careful not to pinch the power cord with the cart.**



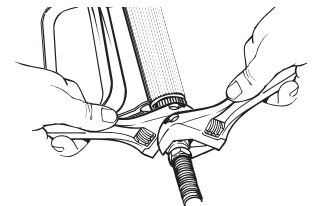
To collapse the cart, see instructions on page 19.

4. Thread the high pressure hose to the spray hose port. Tighten with an adjustable wrench.

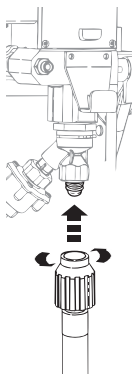


5. Thread the other end of the hose to the spray gun. Hold the gun with one adjustable wrench, and tighten the hose nut with the other.

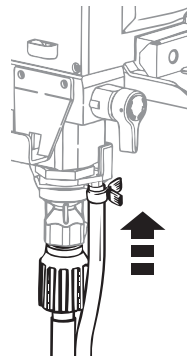
The spray tip **SHOULD NOT** be attached until after the sprayer and spray hose have been purged and primed.



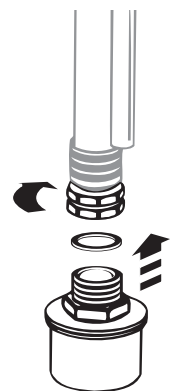
6. Thread the suction tube onto the inlet valve and tighten firmly by hand. Be sure that the threads are straight so that the fitting turns freely.



7. Press the return tube onto the return tube fitting. Squeeze clip over the return tube fitting to secure the return tube.



8. Verify that the seal is present inside the suction tube. Thread the inlet filter into the end of the suction tube.



Before you begin - This section contains instructions that will be repeated throughout this manual.

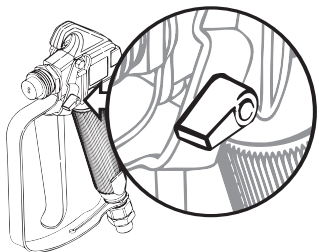
Locking and Unlocking the Spray Gun:

⚠WARNING

Always lock the trigger off when attaching the spray tip or when the spray gun is not in use.

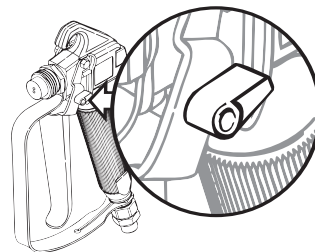
Locking the spray gun:

To lock the gun, turn the trigger lock forward and slightly down until it stops.



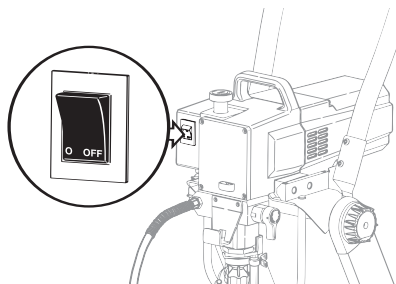
Unlocking the spray gun:

To unlock the spray gun, turn the trigger lock toward the handle.

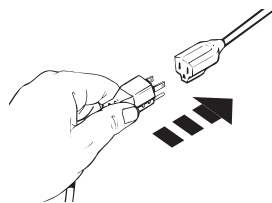


Plugging in the Sprayer:

1. Check that the ON/OFF switch is in the OFF (O) position.



2. Plug the power cord into a grounded outlet or heavy duty grounded extension cord. Plug in the extension cord. Refer to **Important Electrical Information**, page 3.



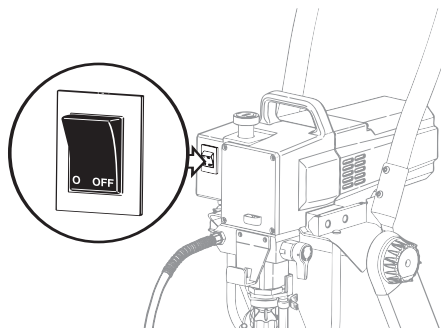
The plug end of the power cord will light up when plugged into a power source.

Pressure Relief Procedure:

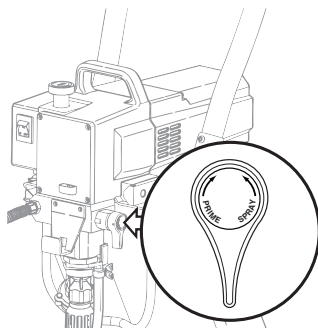
⚠WARNING

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.

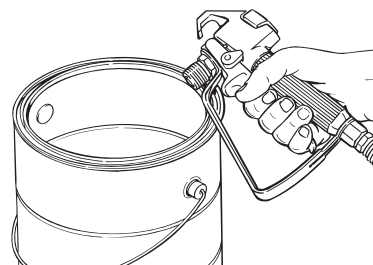
1. Lock the spray gun off (see **directions above**). Flip the ON/OFF switch to the OFF position.



2. Turn the PRIME/SPRAY knob to PRIME.



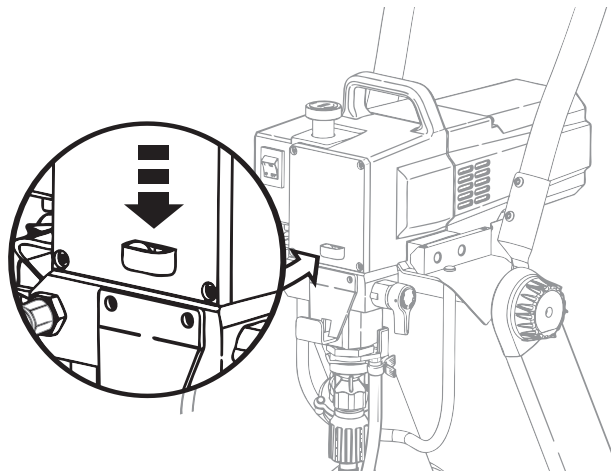
3. Unlock the spray gun and trigger spray gun into the side of the material bucket. Lock the spray gun.



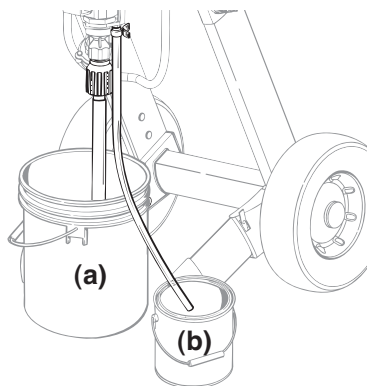
Purging and Priming the Sprayer

All new units are performance-tested at the factory and are shipped with test fluid in the fluid section to prevent corrosion during shipment and storage. If you have already used your pump, some water or solvent used in cleaning may remain in the fluid section. Whether your sprayer is new or if you have already used it, this fluid must be purged and thoroughly cleaned out of the system prior to use. Follow the steps below.

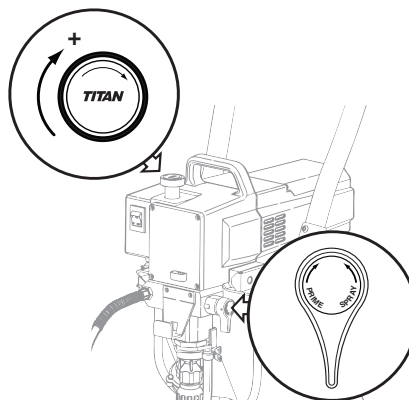
1. Before priming, squirt a teaspoon of separating oil (P/N 0516444 included with unit) into the indicated area. Light household oil can be substituted if necessary.



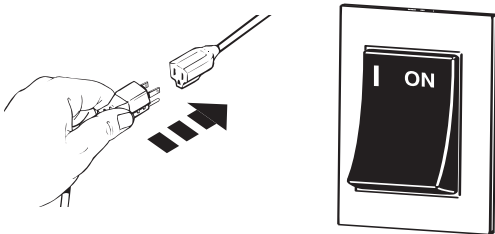
2. Place a full container of spraying material underneath the suction tube (a). Secure the return tube (b) into a waste container.



3. Turn the pressure control knob to maximum pressure (+). Turn the PRIME/SPRAY knob to PRIME.

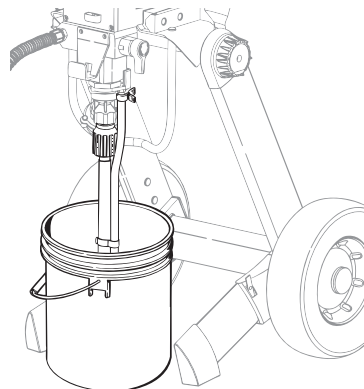


4. Plug in the sprayer and move the ON/OFF switch to the ON (I) position.



The unit will begin to draw material up the suction tube, into the pump, and out the return tube. Let the unit cycle long enough to remove test fluid from the pump, or until spray material is coming from the return tube.

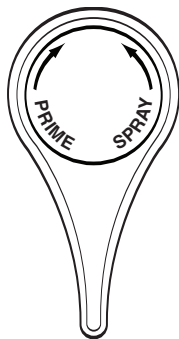
5. Switch the pump OFF (O). Remove the return tube from the waste container and place it in its operating position above the container of spraying material. Use the metal clip to bind the two hoses together.



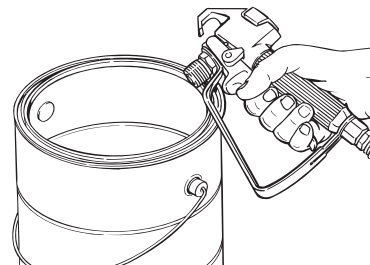
Purging and Priming the Spray Hose

1. Unlock the spray gun and turn the PRIME/SPRAY knob to PRIME.

The spray tip **SHOULD NOT** be attached to your spray gun when purging your spray hose.



2. **PULL** the trigger and aim the spray gun at the side wall of a waste container. **If using oil-based materials, the spray gun must be grounded while purging (see warning below).**



WARNING

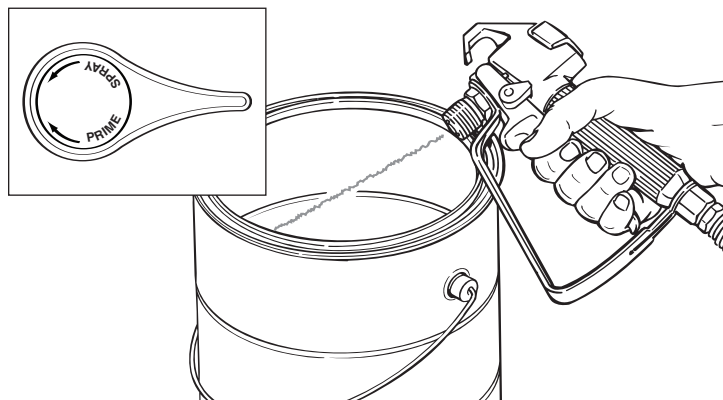
Keep hands clear from fluid stream.

Ground the gun by holding it against the edge of a metal container while flushing. Failure to do so may lead to a static electric discharge which may cause a fire.

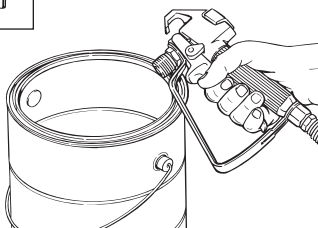
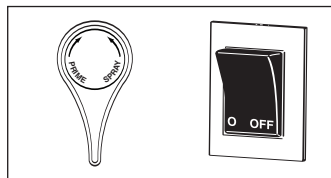
3. While pulling the trigger, switch the pump ON (I), **AND** turn the PRIME/SPRAY knob to SPRAY. **Hold the trigger until all air, water, or solvent is purged from the spray hose and material is flowing freely.**

WARNING

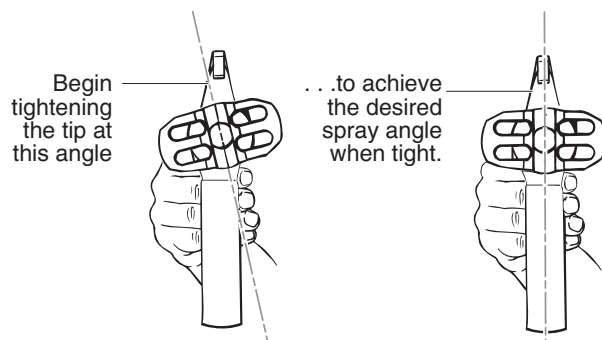
If the PRIME/SPRAY knob is still on SPRAY, there will be high pressure in the hose and spray gun until the PRIME/SPRAY knob is turned to PRIME.



4. Release trigger. Turn the PRIME/SPRAY knob to PRIME. Turn the pump OFF (O). Trigger the gun into the waste container to be sure that no pressure is left in the hose.



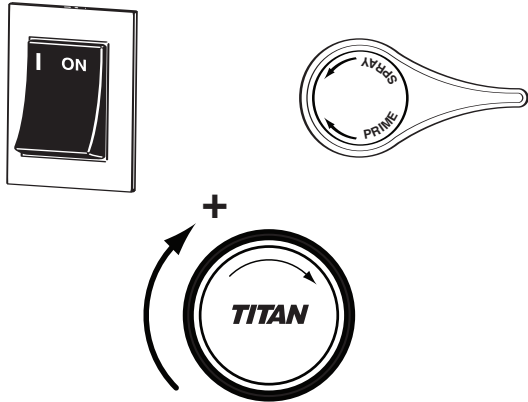
5. Lock the spray gun off. Thread the spray tip guard assembly onto the gun. Tighten by hand.



Practice / Spraying Technique

NOTE - Be sure that the paint hose is free of kinks and clear of objects with sharp cutting edges.

1. Switch the pump ON (I). Turn the PRIME/SPRAY knob to SPRAY. Turn the pressure control knob to maximum pressure (+). The spray hose should stiffen as paint begins to flow through it.



2. When motor shuts off, unlock the spray gun and spray a test area to check the spray pattern.

The motor will cycle on and off automatically as it needs pressure.

The pressure control knob can be adjusted left (increase) or right (decrease) to achieve the desired spray pattern.

Good spray pattern



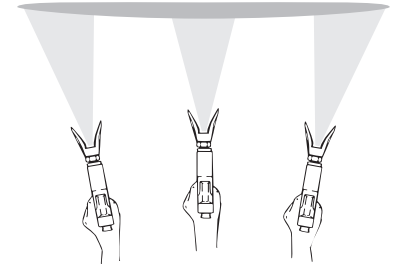
Paint tailing pattern
(pressure too low,
clogged tip)



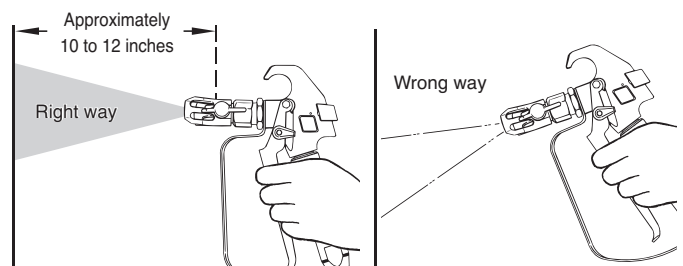
The key to a good job is an even coating over the entire surface. This is done by using even strokes. Follow the TIPS, below.

Tip: Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.

Light Coat Heavy Coat Light Coat

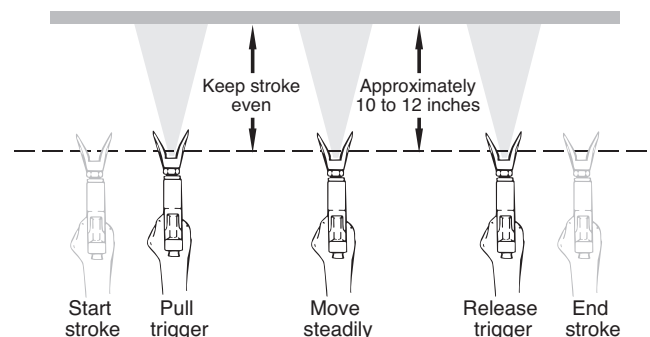


Tip: Keep the spray gun perpendicular to the surface, otherwise one end of the pattern will be thicker than the other.



Tip: 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 30%. This will ensure an even coating.**

If you expect to be away from your sprayer for more than one hour, follow the Short-Term Storage instructions (page 18).



Spraying Troubleshooting - Unclogging the Spray Tip

If the spray pattern becomes distorted or stops completely while the gun is triggered, follow these steps.

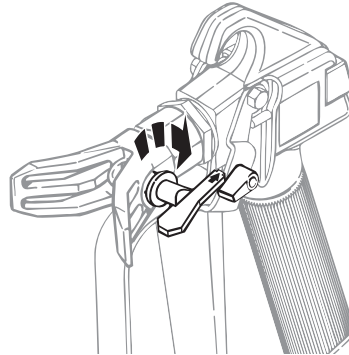
⚠ WARNING

Do not attempt to unclog or clean the tip with your finger.

NOTE - Do not use a needle or other sharp pointed instrument to clean the tip. The hard tungsten carbide can chip.

1. Release the trigger and lock the gun off (see page 7).
Rotate the reversible tip arrow 180° so that the point of the arrow is toward the rear of the gun (CLEAN position).

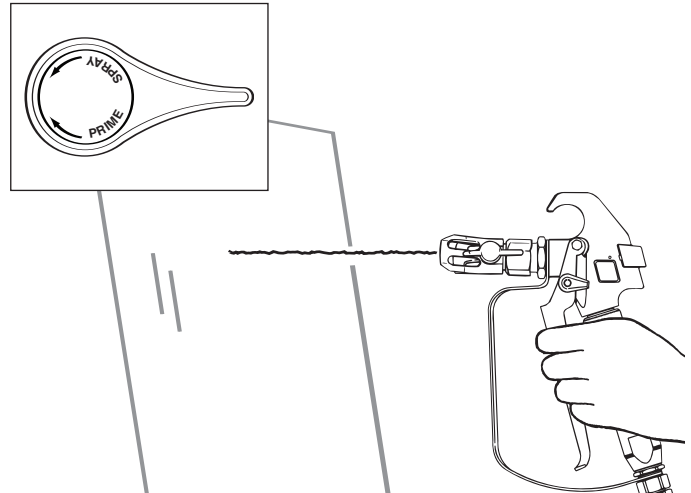
Under pressure, the spray tip may be very difficult to turn. Turn the PRIME/SPRAY knob to PRIME and trigger the gun. This will relieve pressure and the tip will turn more easily.



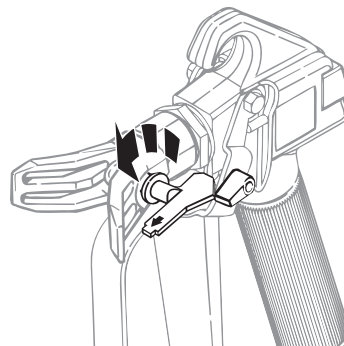
Gun locked
(see page 7)

2. Turn the PRIME/SPRAY knob to SPRAY.
3. Unlock the gun and squeeze the trigger, pointing the gun at a scrap piece of wood or cardboard. This allows pressure in the spray hose to blow out the obstruction. When the nozzle is clean, material will come out in a straight, high pressure stream.

If material still will not spray from the spray tip, follow the Cleaning the spray gun filter instructions, page 12.



4. Release the trigger and lock the gun off (see page 7).
Reverse the tip so the arrow points forward again (SPRAY position). Unlock the gun and resume spraying.

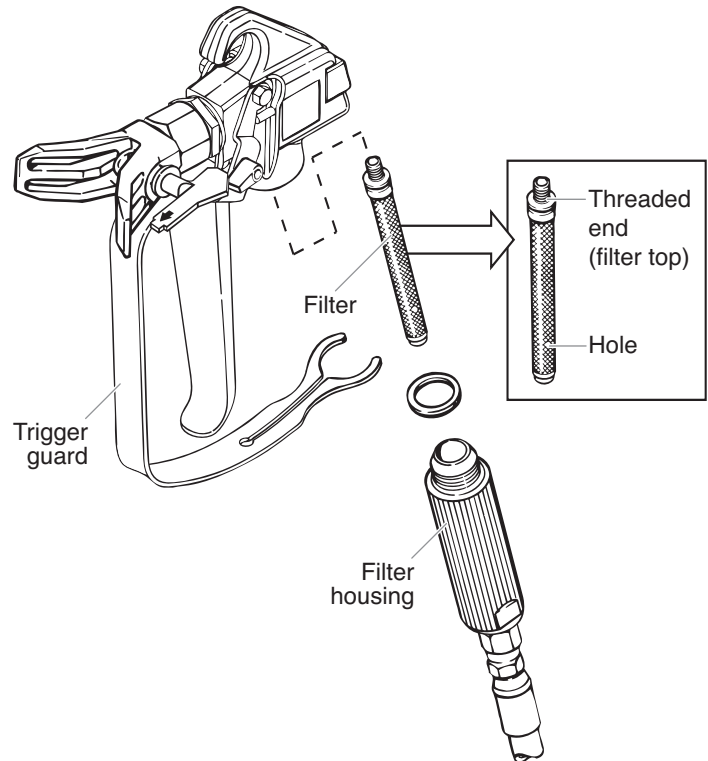


Gun locked
(see page 7)

Spraying Troubleshooting - Cleaning the Spray Gun Filter

The filter must be cleaned every time you use your sprayer. When using thicker spray materials, the filter might need to be cleaned more often.

1. Perform **Pressure Relief Procedure**, page 7.
2. Unclip the trigger guard from the filter housing by pulling outward from the filter housing. Unscrew the filter housing.
3. Unscrew the filter from the spray gun housing and clean with the appropriate cleaning solution (warm, soapy water for latex paints, mineral spirits for oil-based materials).
4. Inspect the filter for holes (see inset, right). Replace if holes are found.



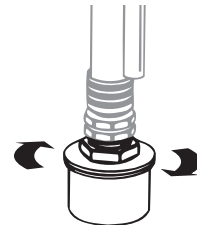
NOTE - NEVER POKE THE FILTER WITH A SHARP INSTRUMENT!

5. Screw the cleaned filter, threaded end first, into the gun housing. **The threaded end of the filter must be loaded properly into the gun. Improper assembly will result in a plugged tip or no flow from the gun.**
6. Reassemble the spray gun.

Spraying Troubleshooting - Cleaning the Inlet Filter

The screen at the bottom of the suction tube may also need cleaning. Check it every time you change spray containers.

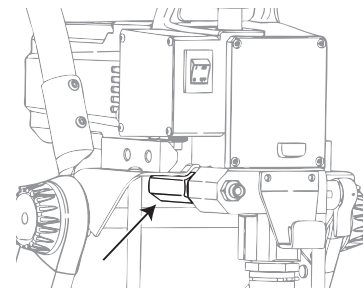
1. Remove the filter by unscrewing it from the suction tube. Clean the filter with the appropriate cleaning solution (warm, soapy water for latex materials, mineral spirits for oil-based materials).
2. Thread the filter back into place.



Spraying Troubleshooting - Cleaning the Sprayer Filter

The sprayer filter must also be cleaned every time you use your sprayer.

1. Perform **Pressure Relief Procedure**, page 7.
2. Unscrew the filter housing from the side of the sprayer with an adjustable wrench.
3. Unscrew the filter from the sprayer and clean by hand using the appropriate cleaning solution.
4. Thread the filter (threaded end first) back into the sprayer. Replace the filter housing and tighten with an adjustable wrench.



If after completing all of the steps in Spraying Troubleshooting you are still experiencing problems spraying, refer to the Troubleshooting section (page 21).

Important Cleaning Notes!

Read these notes and warnings before you start to clean your sprayer!

- When using latex materials, clean your sprayer and components with water. When using oil-based materials, use mineral spirits.
- Do not use mineral spirits on latex materials, or the mixture will turn into a jelly-like substance which is difficult to remove.
- No matter which cleaning solution you use, make sure to dispose of it properly when finished cleaning your sprayer.
- Thorough cleaning and lubrication of the sprayer is the most important step you can take to ensure proper operation after storage.

WARNING



Special cleaning instructions for use with flammable solvents:

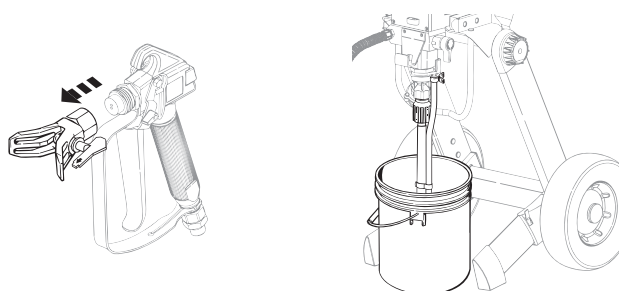
- **ALWAYS FLUSH SPRAY GUN AT LEAST ONE HOSE LENGTH AWAY FROM SPRAY PUMP.**
- If collecting flushed solvents in one gallon metal container, place it into an empty five gallon container, then flush.
- Area must be free from vapors.
- Follow all cleanup instructions.
- **DO NOT USE GASOLINE TO CLEAN YOUR SPRAYER.**

Call 1-866-Titan XT if you have any problems or questions regarding the cleaning of your sprayer.

Cleanup - Latex materials

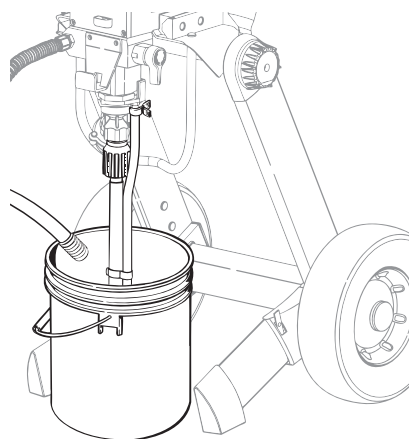
Follow these steps if you used latex materials **AND** if you have a garden hose available. If you do not have a garden hose available, follow the Cleanup - Oil-Based Materials instructions.

1. Lock the gun and remove the spray tip assembly. Place the suction tube and return tube into an empty waste container.

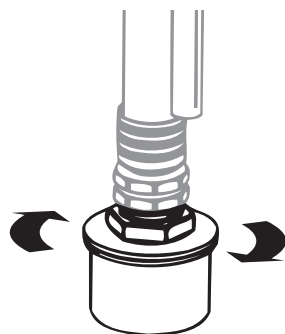


Empty waste container

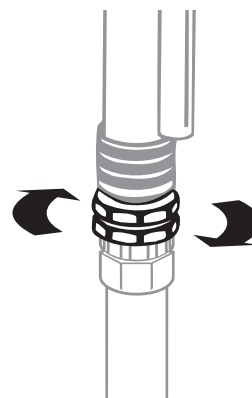
2. Using a garden hose, rinse off the suction tube, return tube and inlet filter. Empty the waste container.



3. Remove the inlet filter from the suction tube and place into the waste container.



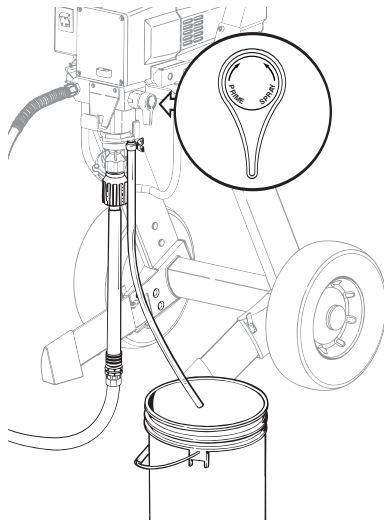
4. Connect a garden hose to the fitting on the end of the suction tube.



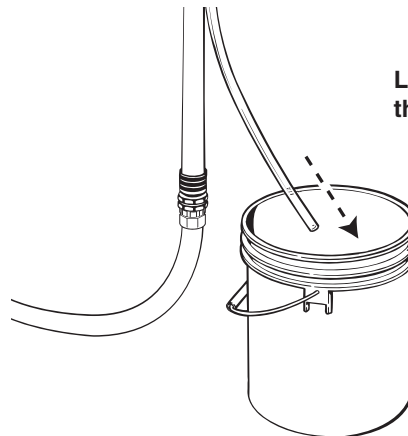
Continued on next page.

Cleanup - Latex materials (continued)

5. Unclip the return tube from the suction tube and place it into the waste container. Turn the PRIME/SPRAY knob to PRIME.

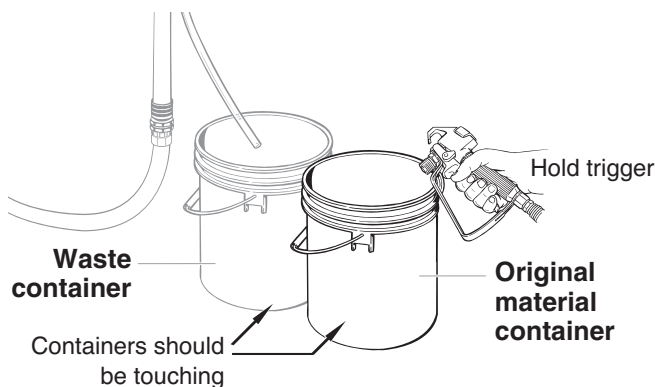


6. Turn water supply on. Turn pump ON (I). Water will go into the suction tube and out through the return tube. Let pump run for a few minutes to allow the return tube to be flushed.



Leave pump running through steps 7 and 8.

7. Place the original material container next to the waste container. Aim the spray gun into the side of the **original material container** and hold the trigger.



8. While pulling the trigger, turn the PRIME/SPRAY knob to SPRAY to purge material from the hose back into the original container.

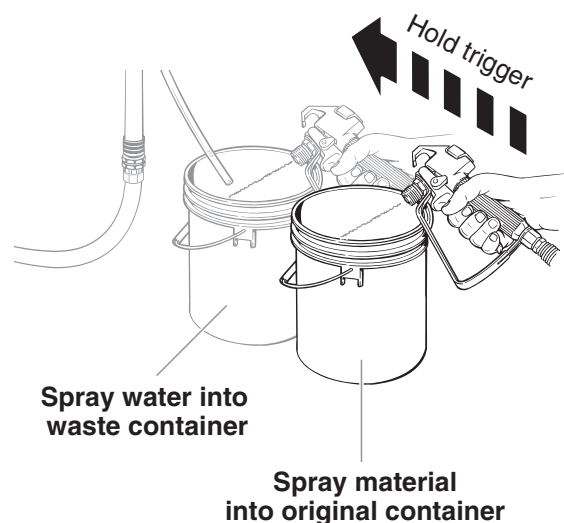


Keep holding trigger through next steps.

9. When cleaning solution flows from the spray gun, keep holding the trigger and aim the spray gun into the side of the waste container.

10. Trigger the gun until the fluid flowing out of the gun is clear. You may need to empty the waste container and continue flushing.

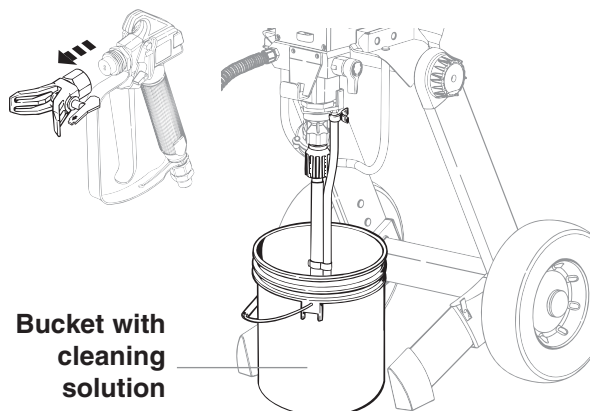
11. Turn the PRIME/SPRAY knob to PRIME and trigger gun to relieve pressure.



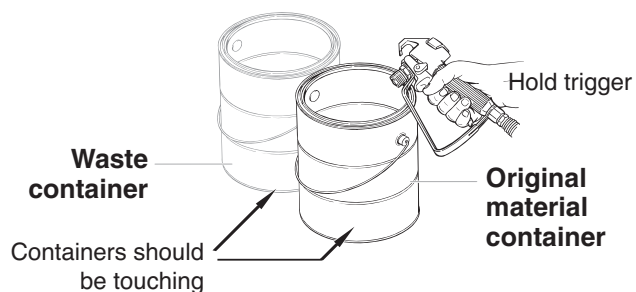
Move on to Cleaning the Spray Gun Components

Cleanup - Oil-based materials

1. Lock the gun and remove spray tip assembly. Submerge suction set into a bucket with appropriate cleaning solution.

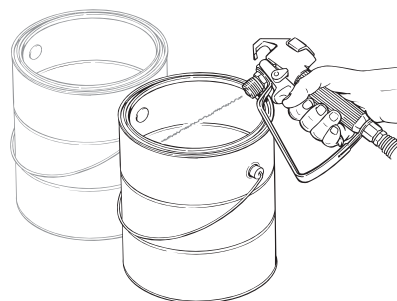


2. Place a waste container next to the original material container. Aim the spray gun into the side of the **original material container** and hold the trigger.



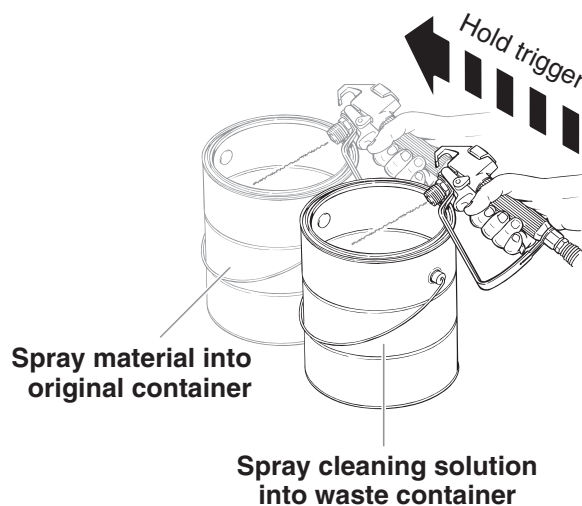
3. While pulling the gun trigger, turn the pump ON (I), and turn the PRIME/ SPRAY knob to SPRAY to purge material from the hose back into the original container.

- Hold trigger
- Turn pump ON (I)
- Turn PRIME/SPRAY knob to SPRAY



Keep holding trigger through next steps.

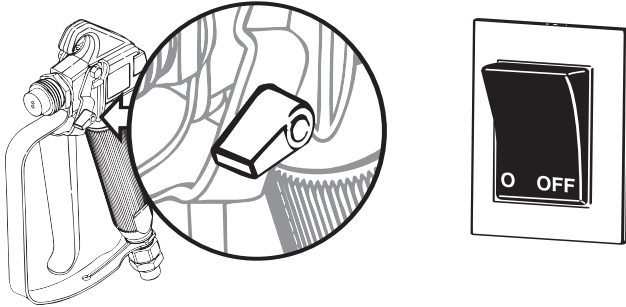
4. When cleaning solution flows from the spray gun, keep holding the trigger and aim the spray gun into the side of the waste container (**ground gun with a metal container if flushing with flammable solvent**).
5. Trigger the gun until the fluid flowing out of the gun is clear. You may need to dispose and obtain new cleaning solution.
6. Turn the PRIME/SPRAY knob to PRIME and trigger gun **once** to relieve pressure.



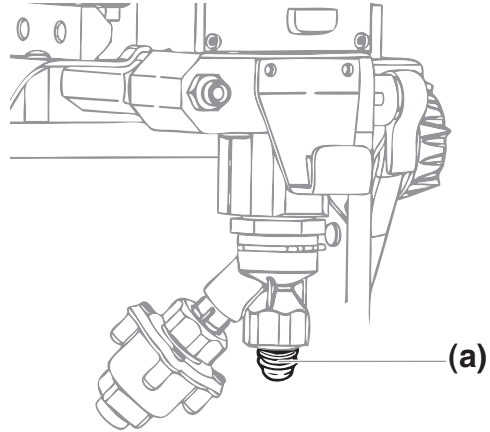
Move on to Cleaning the Suction Set.

Cleanup - Cleaning the Suction Set

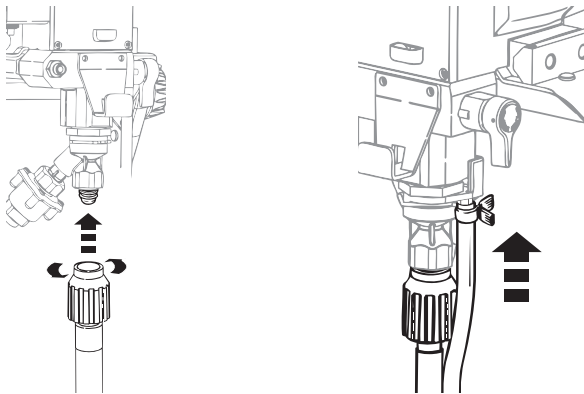
1. Lock the gun and turn the pump OFF (O).



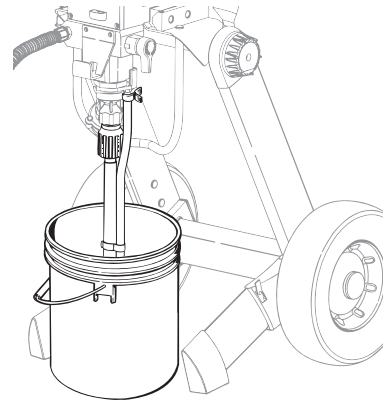
2. Remove the suction hose and return tube and clean it using the appropriate cleaning solution. You should also wipe the threads of the inlet nut (a) and remove and clean the inlet filter.



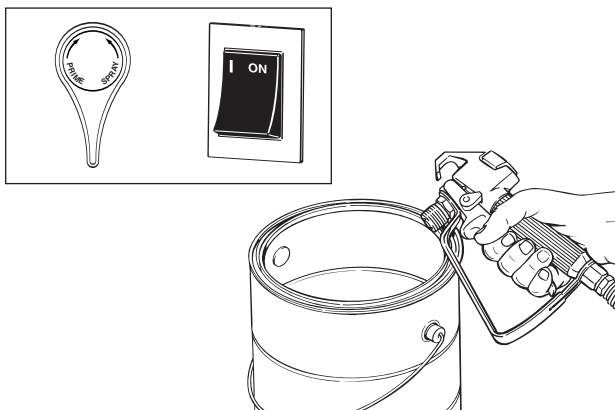
3. When suction set is clean, thread the suction tube back into the inlet valve, and replace the return tube onto the return tube fitting. Replace clip.



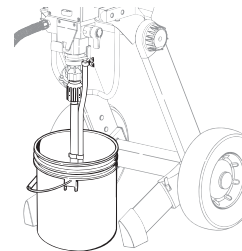
4. Submerge the suction set into a bucket of **NEW** cleaning solution.



5. Turn the PRIME/SPRAY knob to PRIME. Turn the pump ON (I), and trigger the gun into a waste container to relieve pressure.



6. Let the pump circulate cleaning solution through the suction set for 2-3 minutes. Turn the pump OFF.



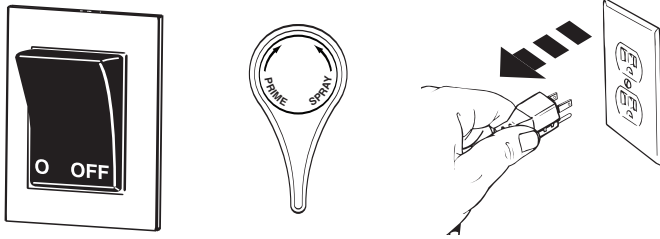
IMPORTANT!

If you used oil-based materials, you must flush the pump again using water to prepare it for storage. Repeat #1 - #11 in Cleanup- Latex materials, instructions.

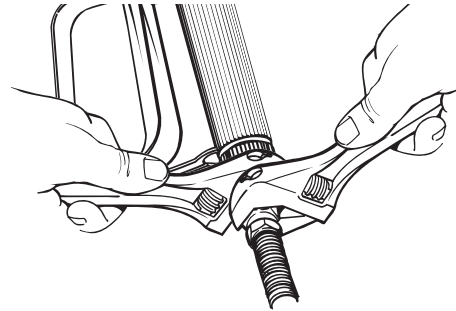
Move on to Cleaning the Spray Gun Components.

Cleanup - Cleaning the Spray Gun Components

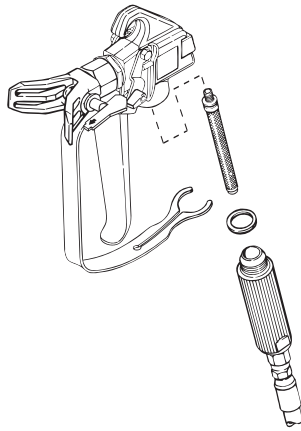
1. Make sure the pump is switched OFF (O). Make sure the PRIME/SPRAY knob is turned to PRIME. Unplug the sprayer.



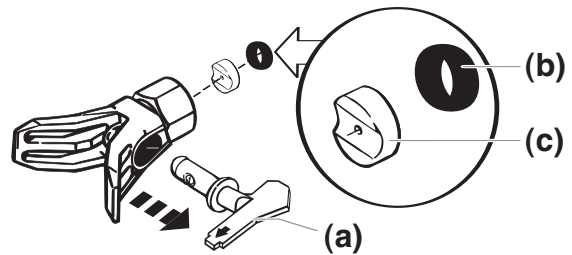
2. Remove spray gun from the paint hose using adjustable wrenches.



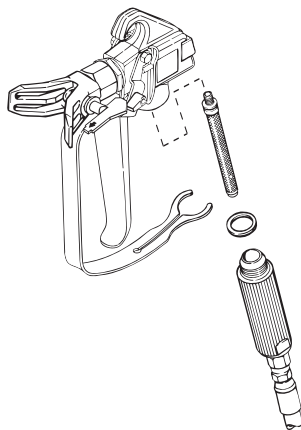
3. Remove filter from spray gun (refer to **Cleaning the Spray Gun Filter**, page 12).



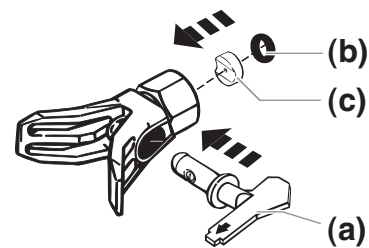
4. Remove spray tip (a) from spray guard assembly. Clean spray tip with a soft-bristled brush and the appropriate cleaning solution. Be sure to remove and clean the washer (b) and saddle seat (c) located in the rear of the spray tip assembly.



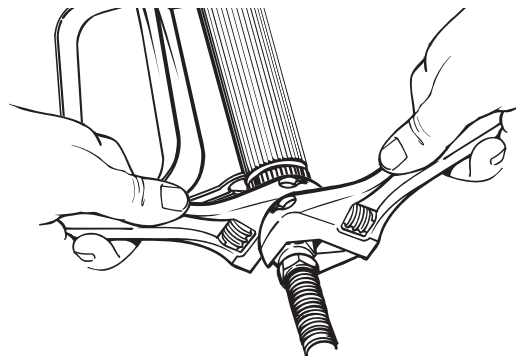
5. Install gun filter threaded-end first. Reassemble spray gun.



6. Install spray tip (a), saddle seat (c) and washer (b), and replace spray guard assembly.



7. Thread the spray gun back onto the paint hose. Tighten with a wrench.



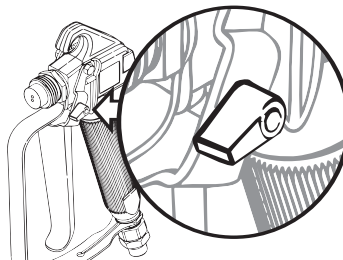
Be sure to remove and clean the sprayer filter before storage. See **Cleaning the Sprayer Filter**, page 12.

Short-Term Storage (up to 16 hours)

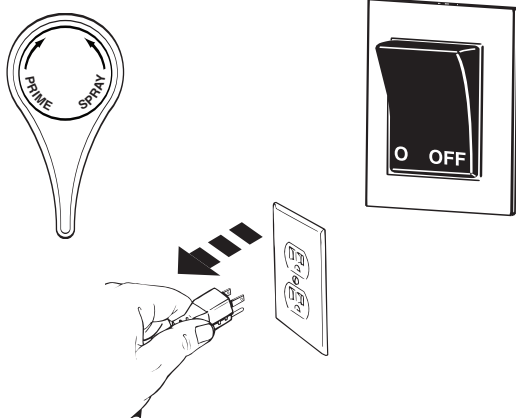
Follow these steps when using latex materials only. If using materials that are oil-based, follow the Cleanup - Oil based materials and Long-Term Storage steps.

Shutdown

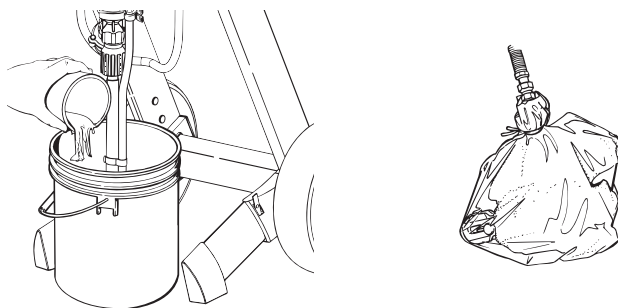
1. Lock the spray gun off.



2. Turn the PRIME/SPRAY knob to PRIME. Switch the pump OFF (O). Unplug the sprayer.

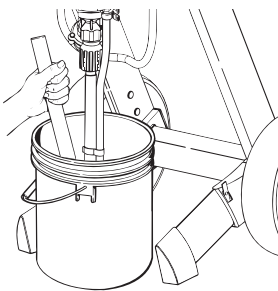


3. Pour 1/2 cup water slowly on the top of the paint to prevent the paint from drying. Wrap the spray gun assembly in a damp cloth and place it in a plastic bag. Seal the bag shut. Place the sprayer in a safe place out of the sun for short-term storage.

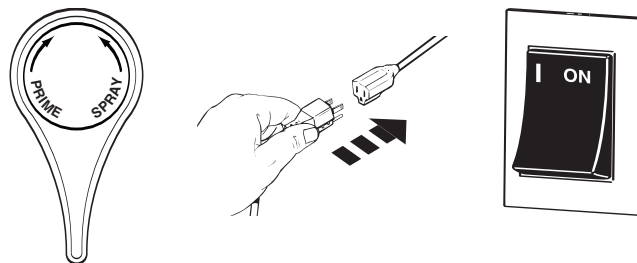


Startup

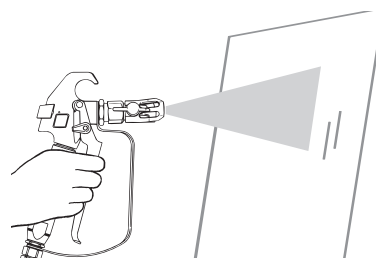
1. Remove the gun from the plastic bag. Stir the water into the paint.



2. Turn the PRIME/SPRAY knob to PRIME. Plug sprayer in. Turn the switch to ON (I).



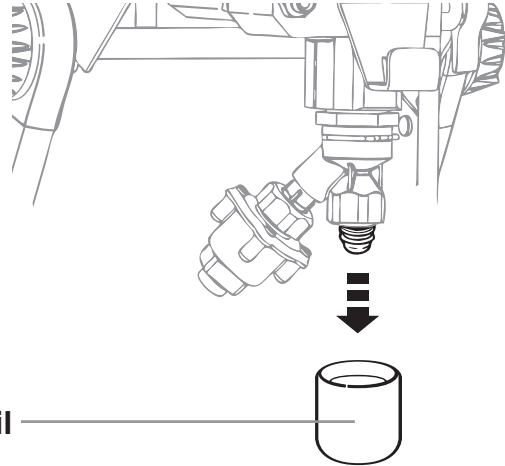
3. Turn the PRIME/SPRAY knob to SPRAY. Test the sprayer on a practice piece and begin spraying.



Long-Term Storage

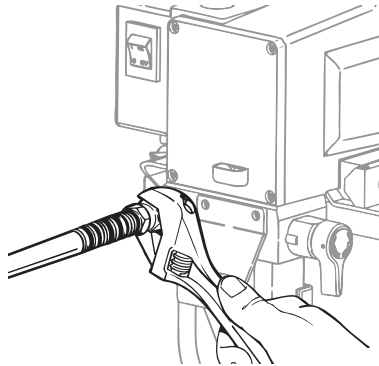
Follow these instructions only after all cleanup steps have been performed.

1. Fill a cup or other container with separating oil (approximately 2 ounces) supplied with the unit and submerge the inlet valve into the oil. Light household oil can be substituted.
2. Place a rag over the spray hose port, and turn the switch ON (I). When the oil has been pumped from the cup, turn the pump OFF (O).



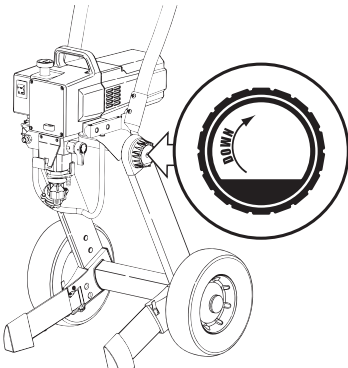
Separating oil

3. Wipe the entire unit, hose and gun with a damp cloth to remove accumulated paint. Replace the high pressure hose to the paint hose port.

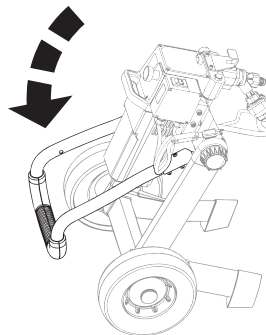


You can collapse the cart for easier storage.

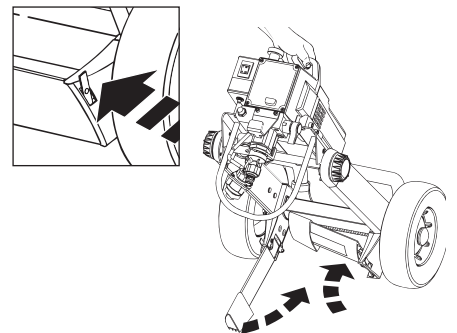
1. With one hand on the cart handle, twist the knob on either side of the cart toward the "DOWN" arrow.



2. When the knob is fully "DOWN", this will release the handle and it can be folded down until it is locked into place. **Be careful not to pinch the power cord with the cart.**



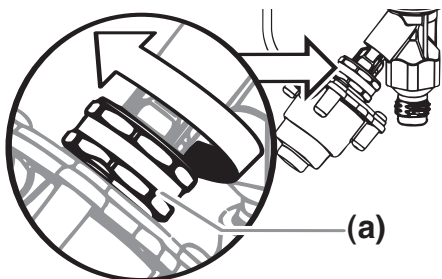
3. Press the levers and fold the legs in until they lock into place. **The first leg that is folded will not fully lock until the second leg is folded.**



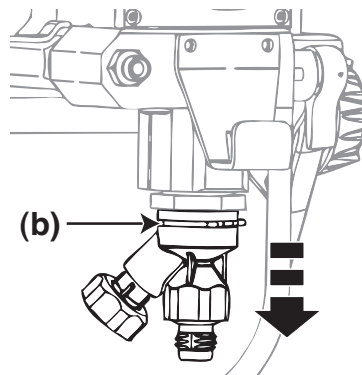
Cleaning the Sureflo™ Valve

Cleaning or servicing the Sureflo™ 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.

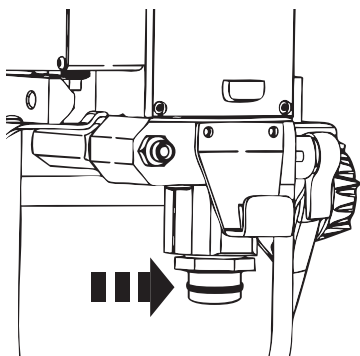
1. Remove the suction set. Loosen the fitting as shown (a) and remove the Sureflo™ valve solenoid.



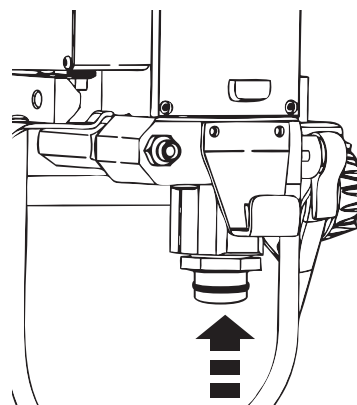
2. Pull the retaining clip (b) from the sprayer as shown and remove the **Sureflo™ valve assembly (b)** from the sprayer. Visually inspect the inside and outside of the Sureflo™ valve assembly. Clean any paint residue with the appropriate cleaning solution.



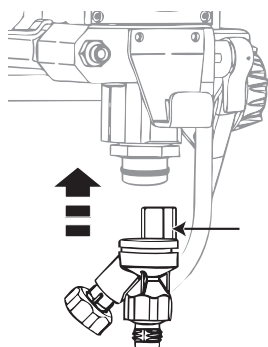
3. Check the O-ring on the Sureflo™ valve connecting area as shown. Clean any paint residue and lubricate with separating oil (P/N 0516444).



4. Clean any paint residue found inside the SureFlo™ valve connecting area.

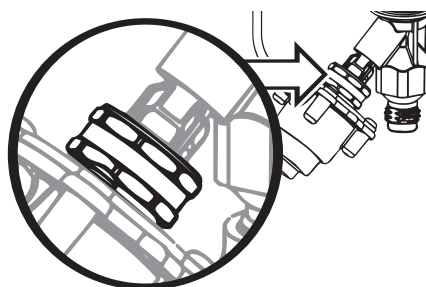


5. Replace Sureflo™ valve assembly by placing it over the housing and replacing the clip.



The “L” guide on the SureFlo™ valve should be oriented as shown or the power cord on the SureFlo™ valve solenoid will not let the solenoid be reattached.

6. Replace Sureflo™ valve solenoid.



If priming problems persist see [Troubleshooting](#) section or call Technical Service.

Troubleshooting / Maintenance

Problem	Cause	Solution
A. The sprayer does not start.	<ol style="list-style-type: none"> 1. The sprayer is not plugged in. 2. The ON/OFF switch is set to OFF. 3. The sprayer was turned off while still under pressure. 4. No voltage is coming from the wall plug. 5. The extension cord is damaged or has too low a capacity. 6. There is a problem with the motor. 7. Tripped breaker 	<ol style="list-style-type: none"> 1. Plug the sprayer in. 2. Turn the ON/OFF switch to ON. 3. Slide the pressure control knob to maximum pressure (+), or relieve pressure by turning the PRIME/SPRAY valve to PRIME. 4. Properly test the power supply voltage. 5. Replace the extension cord. 6. Take sprayer to Authorized Service Center. 7. Press breaker button on bottom of sprayer.
B. The sprayer starts but does not draw in paint when the PRIME/SPRAY knob is set to PRIME.	<ol style="list-style-type: none"> 1. The unit will not prime properly or has lost prime. 2. The paint bucket is empty or the suction tube is not totally immersed in the paint. 3. The suction set is clogged. 4. The suction tube is loose at the inlet valve. 5. The Sureflo™ valve is stuck. 6. The Sureflo™ valve is worn or damaged. 7. The PRIME/SPRAY valve is plugged. 	<ol style="list-style-type: none"> 1. Try to prime the unit again. 2. Refill the bucket or immerse the suction tube in paint. 3. Clean the suction set. 4. Clean the tube connection and tighten it securely. 5. Clean the Sureflo™ valve. Inlet may be stuck from old paint. Operate Sureflo™ valve to release. 6. Take sprayer to Authorized Service Center. 7. Take sprayer to Authorized Service Center.
C. The sprayer draws up paint but the pressure drops when the gun is triggered.	<ol style="list-style-type: none"> 1. The spray tip is worn. 2. The suction set screen is clogged. 3. The gun filter is plugged. 4. The paint is too heavy or coarse. 5. The Sureflo™ valve assembly is damaged or worn. 	<ol style="list-style-type: none"> 1. Replace the spray tip with a new tip.** 2. Clean the suction set screen. 3. Clean or replace the proper filter. Always keep extra filters on hand. 4. Thin or strain the paint. 5. Take sprayer to Authorized Service Center.
D. The PRIME/SPRAY valve is on SPRAY and there is flow through the return tube.	<ol style="list-style-type: none"> 1. The PRIME/SPRAY valve is dirty or worn. 	<ol style="list-style-type: none"> 1. Take sprayer to Authorized Service Center.
E. The spray gun leaks.	<ol style="list-style-type: none"> 1. Internal parts of the gun are worn or dirty. 	<ol style="list-style-type: none"> 1. Take the sprayer to a Authorized Service Center.
F. The tip assembly leaks.	<ol style="list-style-type: none"> 1. The tip was assembled incorrectly. 2. A seal is worn. 	<ol style="list-style-type: none"> 1. Check the tip assembly and assemble properly. 2. Replace the seal.**
G. The spray gun will not spray.	<ol style="list-style-type: none"> 1. The spray tip or the gun filter is plugged. 2. The spray tip is in the CLEAN position. 	<ol style="list-style-type: none"> 1. Clean the spray tip or gun filter. 2. Put the tip in the SPRAY position.
H. The paint pattern is tailing.	<ol style="list-style-type: none"> 1. The pressure is set too low. 2. The gun, the tip, or the suction filter is plugged. 3. The suction tube is loose at the inlet valve. 4. The tip is worn. 5. The paint is too thick. 6. Pressure loss. 	<ol style="list-style-type: none"> 1. Increase the pressure. 2. Clean the filters. 3. Tighten the suction tube fitting. 4. Replace the spray tip. 5. Thin the paint. 6. Refer to Causes and Solutions for problem C.

Technical Service: 1-866-Titan XT (1-866-848-2698)

** Additional parts are available for this procedure. Refer to the **Accessories (page 47)** section of this manual for a list of the parts and their part numbers.

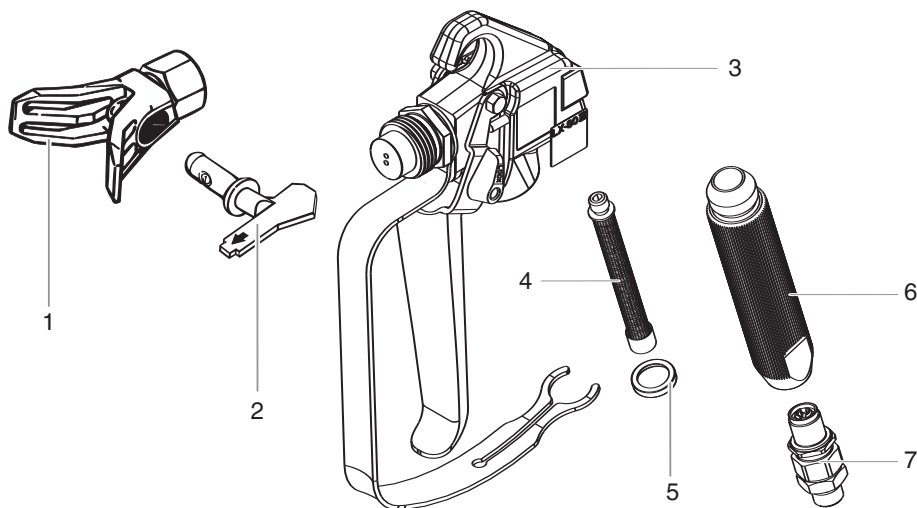
Daily Maintenance

The only daily maintenance necessary is thorough cleaning and lubricating after usage. Follow the cleaning and lubricating procedures in this manual.

Extended Maintenance

Some pump parts eventually wear out from use and must be replaced. The following list indicates the available repair kits for the parts replaced by each kit. However, pump performance is the only reliable indicator of when to replace wear parts. Refer to the **Troubleshooting** section for more information on when to use these kits.

Parts List • Lista de piezas



English

Model LX-60 spray gun

Item	Part #	Description	Quantity
1	0516711	Tip guard.....	1
2	661-517	Tip, 517	1
3	0516719	Complete gun assembly	1
4	0516737	Filter, white*	
5	560-038	Handle seal.....	1
6	580-531	Handle	1
7	580-530	Swivel.....	1

*2-pack replacement kit

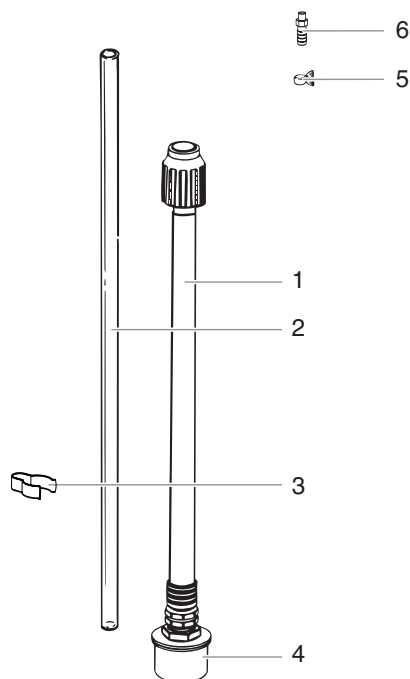
Español

Modelo de pistola LX-60

Artículo	Pieza#	Descripción	Cantidad
1	0516711	Ensamble de la protección	1
2	661-517	Boquilla, 517	1
3	0516719	Ensamblaje de la pistola.....	1
4	0516737	Filtro (blanco)*	
5	560-038	Sello del mango	1
6	580-531	Mango	1
7	580-531	Oscilador.....	1

*Embalaje de 2 para el reemplazo

Parts List • Lista de piezas



English

Suction set

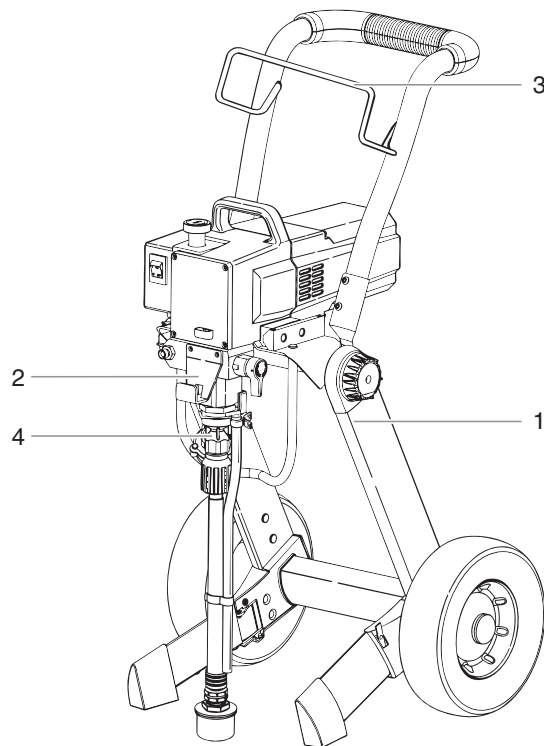
Item	Part #	Description	Quantity
1	0516218	Suction tube.....	1
2	0512389	Return tube.....	1
3	0512390	Clip.....	1
4	0516284	Filter.....	1
5	0327226	Squeeze clip.....	1
6	9885553	Return tube fitting.....	1

Español

Juego de succión

Article	Pieza#	Descripción	Cantidad
1	0516218	Tubo de succión.....	1
2	0512389	Tubo de retorno (modelos de carrito).....	1
3	0512390	Abrazadera.....	1
4	0516284	Filtro.....	1
5	0327226	Abrazadera del apretón.....	1
6	9885553	Conector del tubo de retorno.....	1

Parts List • Lista de piezas



English

Cart Assembly

<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Quantity</u>
1	0516654	Cart assembly.....	1
2	0516649	Pail bracket.....	1
3	0516662	Hose bracket.....	1
4	0516739	SureFlo™ valve	1

Español

Ensamblaje de carrito

<u>Artículo</u>	<u>Pieza#</u>	<u>Descripción</u>	<u>Cantidad</u>
1	0516654	Ensamblaje de carrito.....	1
2	0516649	Soporte para el bote.....	1
3	0516662	Soporte para la manguera	1
4	0516739	Válvula de SureFlo™	1

Accessories • Accesorios

English	
Part #	Description
0516715	9" Roller Cover, 3/4" Nap
0516716	9" Roller Cover, 3/8" Nap
0516714	Hose, Whip End, 5' x 3/16"
0516713	Hose connector kit
661-012	Guard assembly, G-thread
651-139	180 Degree Swivel
661-413	413 Trade Spray Tip
661-415	415 Trade Spray Tip
661-417	417 Trade Spray Tip
661-515	515 Trade Spray Tip
661-517	517 Trade Spray Tip
661-519	519 Trade Spray Tip
661-521	521 Trade Spray Tip
661-020	Spray tip seal kit
314-482	Liquid shield
314-480	Piston lubrication
0516703	TR-10 Telescoping Roller, 9", 3/8" Nap
0516444	Separating Oil
0516717	XT-05 spray gun
0516718	XT-07 spray gun
0516719	LX-60 spray gun
0516730	Hose, Wireless, 25' x 1/4"
0516729	Hose, Wireless, 50' x 1/4"
661-915	915 wide tip
661-917	917 wide tip
671-210	210 fine finish tip
671-312	312 fine finish tip
0516732	Yellow Gun Filter (2)
0516733	White Gun Filter (2)
0516736	Yellow Gun Filter (2, LX-60 only)
0516737	White Gun Filter (2, LX-60 only)
0516738	Green Gun Filter (2, LX-60 only)
0516738	Green Sprayer Filter (2) See page 12
651-072	Tip Extension, 18"
651-073	Tip Extension, 24"
310 383 1	Tip Extension, 36"

Español	
Pieza#	Descripción
0516715	Funda del rodillo 9", pelillo de 3/4"
0516716	Funda del rodillo 9", pelillo de 3/8"
0516714	Manguera 5' x 3/16"
0516713	Conector de manguera, 1/4" x 1/4"
661-012	Ensamblaje de protección, Roscado G
651-139	Oscilador de 180 grados
661-413	Boquilla rociadora 413
661-415	Boquilla rociadora 415
661-417	Boquilla rociadora 417
661-515	Boquilla rociadora 515
661-517	Boquilla rociadora 517
661-519	Boquilla rociadora 519
661-521	Boquilla rociadora 521
661-020	Conjunto de sello de boquilla rociadora
314-482	Protector líquido
314-480	Lubricación del pistón
0516703	Rodillo telescópico TR-10, pelillo de 9", 3/8"
0516444	Lubricante de empaques
0516717	Modelo de pistola rociadora XT-05
0516718	Modelo de pistola rociadora XT-07
0516719	Modelo de pistola rociadora LX-60
0516730	Manguera 25' x 1/4"
0516729	Manguera 50' x 1/4"
661-915	Boquilla de largo 915
661-917	Boquilla de largo 917
671-210	Boquilla de la fina 210
671-312	Boquilla de la fina 312
0516732	Filtro de pistola amarillo (2)
0516733	Filtro de pistola blanco (2)
0516736	Filtro de pistola amarillo (2, LX-60 solamente)
0516737	Filtro de pistola blanc (2, LX-60 solamente)
0516738	Filtro de pistola verde (2, LX-60 solamente)
0516738	Filtro de rociadora verde (2) Lea la página 34
651-072	Extensión de la boquilla, 18"
651-073	Extensión de la boquilla, 24"
310 383 1	Extensión de la boquilla, 36"

Warranty • Garantía

LIMITED WARRANTY - AIRLESS PAINT SPRAY EQUIPMENT

This product, manufactured by Titan Tool, is warranted to the original retail purchaser against defects in material and workmanship for four years from date of purchase.

This warranty does not cover damage resulting from improper use, accidents, user's negligence or normal wear. This warranty does not cover any defects or damages caused by service or repair performed by anyone other than a Titan Authorized Service Center. This warranty does not apply to accessories.

TITAN SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FROM BREACH OF THIS WARRANTY OR ANY OTHER REASON.

If any product is defective in material and/or workmanship during the applicable warranty period, please call Titan Technical Service at 1-866-Titan XT (1-866-848-2698). **DO NOT RETURN THE PRODUCT TO THE ORIGINAL RETAILER.** Under Titan's Free Tool Replacement Program, Titan Technical Service will either replace the defective part, or refer you to your nearest Authorized Service Center for repair.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

GARANTÍA LIMITADA - EQUIPO DE ATOMIZACIÓN DE PINTURA SIN AIRE

Este producto, fabricado por Titan Tool, está garantizado ante el comprador original contra defectos de materiales y mano de obra durante cuatro años contado a partir de la fecha de compra.

Esta garantía no cubre los daños que sean resultado de un uso inapropiado, accidentes, negligencia del usuario o un desgaste normal. Esta garantía no cubre ningún defecto o daño que haya sido causado por los servicios o reparaciones llevadas a cabo por alguien que no sea un técnico del Centro de Servicio Autorizado de Titan. Esta garantía no es válida para ningún accesorio.

TITAN NO SERÁ EN NINGÚN CASO RESPONSABLE DE NINGÚN DAÑO INCIDENTAL O DE CONSECUENCIA DE NINGUNA CLASE, QUE RESULTE DE VIOLAR ESTA GARANTÍA O POR CUALQUIER OTRA RAZÓN.

Si algún producto presenta fallas en los materiales y/o en su fabricación durante el periodo de vigencia de la garantía, llame al Servicio Técnico de Titan al 1-866-Titan XT (1-866-848-2698). **NO DEVUELVA EL PRODUCTO A LA TIENDA DONDE LO ADQUIRIÓ.** Gracias al Programa de Reemplazo de Herramientas Gratis de Titan, el Servicio Técnico de Titan reemplazará la pieza defectuosa o lo derivará al Centro de Servicio Autorizado más cercano para su reparación.

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ESTA GARANTÍA LE CONCEDE DERECHOS LEGALES ESPECÍFICOS, PERO USTED PODRÍA TENER DERECHO A OTROS, LOS CUALES VARÍAN DE UN ESTADO A OTRO.

Titan XT
1770 Fernbrook Lane
Plymouth, MN 55447

1-866-Titan XT