



**Owner's Manual**  
For professional use only

Do not use this equipment  
before reading this manual!

# **SPEEFLO**

# **PowrTex 1200 SF**

## **Airless Texture and Paint Sprayer**



**Model Numbers:**

**Complete**  
**Bare**

**600-150**  
**600-151**

**NOTE:** This manual contains important warnings and instructions. Please read and retain for reference.

# Important Safety Information



**Read all safety information before operating the equipment. Save these instructions.**



**Indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

**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.**

## Grounding Instructions

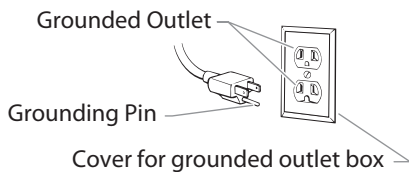
This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into 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.



**IMPORTANT: 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 12 gauge cord is recommended. 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.**

**IMPORTANT: When the sprayer is used with a generator or uncontrolled line voltage, the use of Titan's "Line Surge Protector" (P/N 800-935) is recommended.**



## WARNING: EXPLOSION OR FIRE

Flammable vapors, such as solvent and paint vapors, in work area can ignite or explode.

## PREVENTION:

- Use equipment only in well ventilated area. Keep a good supply of fresh air moving through the area to keep the air within the spray area free from accumulation of flammable vapors. Keep pump assembly in well ventilated area. Do not spray pump assembly.
- Use extreme caution when using materials with a flashpoint below 100°F (38°C). Flashpoint is the temperature that a fluid can produce enough vapors to ignite.
- Eliminate all ignition sources, such as pilot lights, cigarettes, portable electric lamps and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable vapors are present.
- Ground equipment and conductive objects in work area.
- Use only grounded hoses.
- Hold spray gun firmly to the side of a grounded pail when triggering into pail.
- If there is static sparking or if you feel a shock, **stop operation immediately.**
- Know the contents of the paint 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.
- Do not use a paint or solvent containing halogenated hydrocarbons. Such as chlorine, bleach, mildewcide, methylene chloride and trichloroethane. They are not compatible with aluminum. Contact the coating supplier about compatibility of material with aluminum.
- Keep a fire extinguisher in work area.



## WARNING: 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.

## PREVENTION:

- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the nozzle tip guard. Do not spray without the nozzle tip guard in place.
- Only use a nozzle tip specified by the manufacturer.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, ALWAYS lock gun trigger, shut pump off, and release all pressure before servicing, cleaning tip or guard, or changing tip. Pressure will not be released by turning off the motor. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure. Refer to PRESSURE RELIEF PROCEDURE described in the pump manual.
- Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.
- High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.

# Important Safety Information

- Check hoses and parts for signs of damage, a leak can inject material into the skin. Inspect hose before each use. Replace any damaged hoses or parts.
- This system is capable of producing 3300 PSI / 22.8 MPa. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of 3300 PSI. This includes spray tips, nozzle guards, guns, extensions, fittings, and hose.
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls. Pressure will not be released by turning off the motor. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure. Refer to PRESSURE RELIEF PROCEDURE described in the pump manual.
- Always remove the spray tip before flushing or cleaning the system.

## NOTE TO PHYSICIAN:

**Injection into the skin is a traumatic injury which can lead to possible amputation. 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.**



## WARNING: GENERAL

Can cause severe injury or property damage.

## PREVENTION:

- Always wear appropriate gloves, eye protection, clothing and a respirator or mask when painting. Hazardous vapors – Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting or poisoning.
- Do not operate or spray near children. Keep children away from equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not kink or over-bend the hose. Airless hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin.
- Do not expose the hose to temperatures or pressures in excess of those specified by manufacturer.
- Do not use the hose as a strength member to pull or lift the equipment.
- Use lowest possible pressure to flush 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.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace hose if any of those conditions exist. Never repair a paint hose. Replace with a conductive high-pressure hose.
- Do not spray outdoors on windy days.

- Always unplug cord from outlet before working on equipment (electric models only).

**IMPORTANT: Do not lift cart handle when loading or unloading.**

## Specifications

Gallons per minute (GPM).....	1.2 (4.5 LPM)
Maximum tip sizes .....	0.034
Maximum pressure .....	3300 PSI (22.8 MPa)
Voltage .....	100~120V AC, 50/60 Hz
Power .....	2.4 HP Infinity Plus Brushless® DC Motor
Maximum current consumption.....	15 A
Weight .....	95 lbs. (43.1 kg)
Maximum hose length .....	300' (91.4 m)

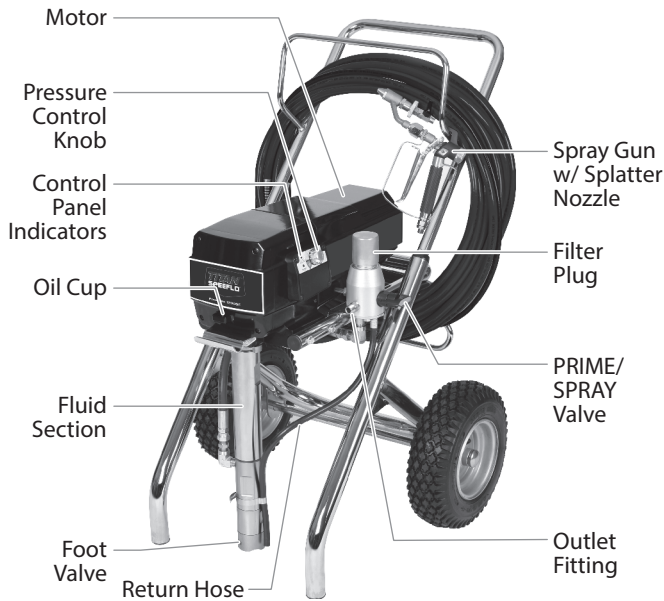
**NOTE: Maximum hose length may vary depending on the hose diameter and the viscosity of the material being sprayed.**

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## General Description

This airless sprayer is a precision power tool used for spraying many types of materials including textured products from a ready-mixed or powdered formulation. Read and follow this instruction manual carefully for proper operating instructions, maintenance, and safety information.



## Operation



**This equipment produces a fluid stream at extremely high pressure. Read and understand the warnings in the Safety Precautions section at the front of this manual before operating this equipment.**

## Setup

Perform the following procedure before plugging in the power cord of an electric sprayer.

**NOTE: If the sprayer will be used for spraying textured products, removal of the inlet screen in the foot valve may be necessary. This will allow proper priming and flow of the textured product. Refer to "Cleaning the Inlet Screen" in the Cleanup section of this manual for removal instructions.**

1. Ensure that the return hose is attached and secure.
2. Using a wrench, attach a minimum of 50' of 1/4" nylon airless spray hose to the outlet fitting on the sprayer. Tighten securely.
3. Attach an airless spray gun to the spray hose. Using two wrenches (one on the gun and one on the hose), tighten securely.

**NOTE: Do not attach the tip to the spray gun yet. Remove the tip if it is already attached.**



**Make sure all airless hoses and spray guns are electrically grounded and rated at or above the maximum operating pressure range of the airless sprayer.**

4. Make sure the pressure control knob is in its OFF position in the black zone.
5. Fill the oil cup with one tablespoon of piston seal lubricant (Piston Lube).

**IMPORTANT: Never operate unit for more than ten seconds without fluid. Operating this unit without fluid will cause unnecessary wear to the packings.**

6. Make sure the electrical service is 120V, 15 amp minimum.

7. Plug the power cord into a properly grounded outlet at least 25' from the spray area.

**IMPORTANT: Always use a minimum 12 gauge, three-wire extension cord with a grounded plug. Never remove the third prong or use an adapter.**

## Preparing a New Sprayer

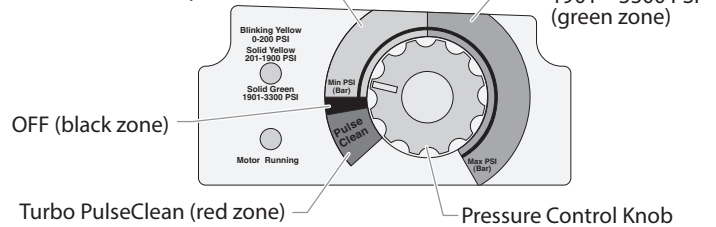
If this sprayer is new, it is shipped with test fluid in the fluid section to prevent corrosion during shipment and storage. This fluid must be thoroughly cleaned out of the system with mineral spirits before you begin spraying.

**IMPORTANT: Always keep the trigger lock on the spray gun in the locked position while preparing the system.**

1. Place the foot valve into a container of mineral spirits that has a flash point of 140°F (60°C) or above.
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "Min" setting in the yellow zone.

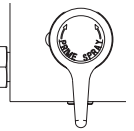
Min. – 1900 PSI (yellow zone)

1901 – 3300 PSI (green zone)



Turbo PulseClean (red zone) Pressure Control Knob

4. Move the PRIME/SPRAY valve down to the PRIME position.
5. Turn on the sprayer by moving the ON/OFF switch to the ON position.
6. Allow the sprayer to run for 15–30 seconds to flush the test fluid out through the return hose and into the waste container.
7. Turn off the sprayer by moving the ON/OFF switch to the OFF position.



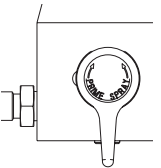
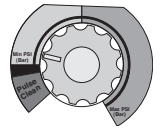
## Preparing to Spray

Before spraying, it is important to make sure that the fluid in the system is compatible with the material that is going to be used.

**NOTE: Incompatible fluids and material may cause the valves to become stuck closed, which would require disassembly and cleaning of the sprayer's fluid section.**

**IMPORTANT: Always keep the trigger lock on the spray gun in the locked position while preparing the system.**

1. Place the foot valve into a container of the appropriate solvent for the material being sprayed (refer to recommendations of the material manufacturer). An example of an appropriate solvent is water for latex paint.
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "Min" setting in the yellow zone.
4. Move the PRIME/SPRAY valve down to the PRIME position.



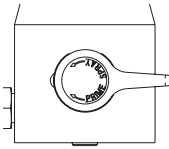
**NOTE: Hold the return hose in the waste container when moving the PRIME/SPRAY valve to PRIME in case the sprayer is pressurized.**

5. Turn on the sprayer by moving the ON/OFF switch to the ON position.
6. Allow the sprayer to run for 15–30 seconds to flush the old solvent out through the return hose and into the metal waste container.

- Turn off the sprayer by moving the ON/OFF switch to the OFF position.

**NOTE: Make sure that the spray gun does not have a tip or tip guard installed.**

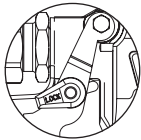
- Move the PRIME/SPRAY valve up to the SPRAY position.
- Turn on the sprayer.
- Unlock the gun by turning the gun trigger lock to the unlocked position.



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



- Trigger the gun into the metal waste container until the old solvent is gone and fresh solvent is coming out of the gun.
- Lock the gun by turning the gun trigger lock to the locked position.
- Set down the gun and increase the pressure by turning the pressure control knob slowly clockwise into the green zone.
- Check the entire system for leaks. If leaks occur, follow the "Pressure Relief Procedure" in this manual before tightening any fittings or hoses.
- Follow the "Pressure Relief Procedure" in this manual before changing from solvent to material.



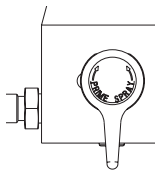
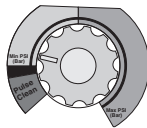
Trigger lock in locked position.



**Be sure to follow the pressure relief procedure when shutting down the sprayer for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray tips, or preparing for cleanup.**

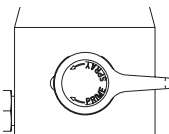
## Spraying

- Prepare the material to be sprayed according to the guidelines given by the material manufacturer.
- Place the foot valve into a container of material.
- Place the return hose into a metal waste container.
- Set the pressure to minimum by turning the pressure control knob to the "Min" setting in the yellow zone.
- Move the PRIME/SPRAY valve down to the PRIME position.



**NOTE: Hold the return hose in the waste container when moving the PRIME/SPRAY valve to PRIME in case the sprayer is pressurized.**

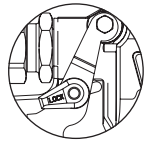
- Turn on the sprayer by moving the ON/OFF switch to the ON position.
- Allow the sprayer to run until material is coming through the return hose into the metal waste container.
- Turn off the sprayer by moving the ON/OFF switch to the OFF position.
- Remove the return hose from the waste container and place it in its operating position above the container of material.
- Move the PRIME/SPRAY valve up to the SPRAY position.
- Turn on the sprayer.
- Unlock the gun by turning the gun trigger lock to the unlocked position.



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



- Trigger the gun into the metal waste container until all air and solvent is flushed from the spray hose and material is flowing freely from the gun.
- Lock the gun by turning the gun trigger lock to the locked position.
- Turn off the sprayer.
- Attach tip guard and tip to the gun as instructed by the tip guard or tip manuals.



Trigger lock in locked position.



**POSSIBLE INJECTION HAZARD. Do not spray without the tip guard in place. Never trigger the gun unless the tip is in either the spray or the unplug position. Always engage the gun trigger lock before removing, replacing or cleaning tip.**

**NOTE: When spraying textured products, the use of a splatter nozzle on the spray gun may be necessary. The splatter nozzle adds atomizing air to the fluid stream to create the desired material consistency. Refer to the Splatter Nozzle Instruction Sheet (P/N 313-2468) for detailed instructions.**

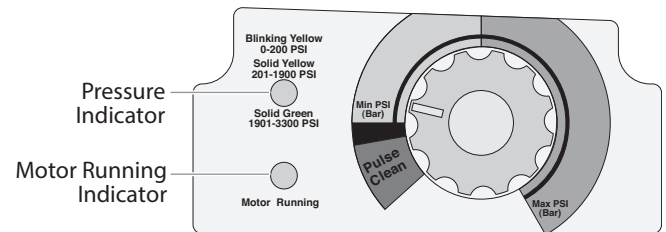
- Turn on the sprayer.
- Increase the pressure by turning the pressure control knob slowly clockwise toward the green zone and test the spray pattern on a piece of cardboard. Adjust the pressure control knob until the spray from the gun is completely atomized. Try to keep the pressure control knob at the lowest setting that maintains good atomization.

**NOTE: Turning the pressure up higher than needed to atomize the paint will cause premature tip wear and additional overspray.**

**NOTE: If the sprayer is equipped with an Xact Digital Control System, go to "Xact Digital Control System Operation" at the end of the Operation section of this Manual.**

## Control Panel Indicators

The following is a description of the control panel indicators.



### Pressure Indicator

The pressure indicator shows the current operating pressure of the sprayer. It has three different indications: blinking yellow, solid yellow, and solid green.

#### Blinking Yellow

When the pressure indicator is blinking yellow, the sprayer is operating between 0 and 200 PSI. A blinking yellow pressure indicator means:

- The sprayer is plugged in and turned "ON"
- The sprayer is at priming pressure (little or no pressure)
- It is safe to move the PRIME/SPRAY valve between positions
- It is safe to change or replace the spray tip

**NOTE: If the pressure indicator begins blinking yellow when the pressure control knob is set at a higher pressure and the PRIME/SPRAY valve is in the SPRAY position, either the spray tip is worn or the sprayer is in need of service/repair.**

### Solid Yellow

When the pressure indicator is solid yellow, the sprayer is operating between 201 and 1900 PSI. A solid yellow pressure indicator means:

- The sprayer is at the proper pressure setting for spraying stain, lacquer, varnish, and multi-colors
- If the pressure indicator goes to solid yellow when the pressure is set so that it starts at solid green, it indicates one of the following:
  - Tip Wear Indicator** — when spraying with latex or at high pressure the solid yellow appears. This means the tip is worn and needs to be replaced.
  - Tip Too Large** — when a tip that is too large for the sprayer is put in the gun, the pressure indicator will turn from solid green to solid yellow.
  - Fluid Section Wear** — if a solid yellow pressure indicator appears when using a new tip and the pressure is set at maximum, service may be required (worn packings, worn piston, stuck valve, etc...).

### Solid Green

When the pressure indicator is solid green, the sprayer is operating between 1901 and 3300 PSI. A solid green pressure indicator means:

- The sprayer is at the proper pressure setting for spraying oil-based and latex house paints
- The sprayer is operating at peak performance at a high pressure setting

### Motor Running Indicator

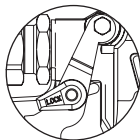
The Motor Running indicator is on when the motor is commanded to run. This indicator is used by service centers to troubleshoot motor problems.

### Pressure Relief Procedure

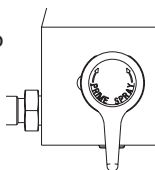


**Be sure to follow the pressure relief procedure when shutting the unit down for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray tips, or preparing for cleanup.**

1. Lock the gun by turning the gun trigger lock to the locked position.
2. Turn off the sprayer by moving the ON/OFF switch to the OFF position.
3. Turn the pressure control knob counterclockwise to its OFF position in the black zone.
4. Unlock the gun by turning the gun trigger lock to the unlocked position.
5. Hold the metal part of the gun firmly to the side of a metal container to ground the gun and avoid a build up of static electricity.
6. Trigger the gun to remove any pressure that may still be in the hose.
7. Lock the gun by turning the gun trigger lock to the locked position.
8. Move the PRIME/SPRAY valve down to the PRIME position.

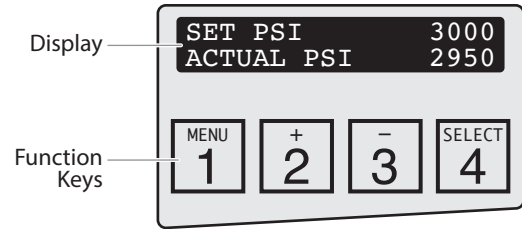


Trigger lock in locked position.



### Xact Digital Control System Operation (if equipped)

The Xact Digital Control System is an optional add-on that increases the functionality of the sprayer. It is installed directly below the pressure control knob on the control panel. It consists of a display and four function keys. The display shows various menu screens that allow the user to customize and monitor sprayer operation using the function keys.



**NOTE: The pressure control knob overrides the Xact Digital Control System settings. Anytime the pressure control knob is turned, the sprayer pressure will change accordingly.**

### Function Keys

The function keys are numbered 1–4. Each key is labeled with an additional function as well.

<b>#1/Menu Key</b>	Pressing the #1 key scrolls through the available menu screens or performs a function described on the active menu screen.
<b>#2/▲ Key</b>	Pressing the #2 key performs a function described on the active menu screen or increases a value.
<b>#3/▼ Key</b>	Pressing the #3 key performs a function described on the active menu screen or decrease a value.
<b>#4/Select Key</b>	Pressing the #4 key selects the active menu screen or performs a function described on the active menu screen.

### Menu Screens

Several menu screens are available for the user to customize and monitor sprayer operation. They include Main Screen, User Pre-Sets, Volume Pumped, Job Volume, Unit Serial #, Timers, Job Timers, Service Time, Pressure, Security Code, Prime, and Pulse Clean.

#### Main Screen

The Main Screen is the default screen for the control system at sprayer startup. Pressing the #2 key switches between PSI and MPa units of measure. Press the #1 key to scroll through the remaining menu screens.



#### User Pre-Sets Screen

The User Pre-Sets screen allows the user to set four different pressure settings and save them for future use. To select the User Pre-Sets screen, press the #4 key.



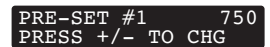
Press keys 1 through 4 from the Select screen to select or change a pre-set pressure.



Press the #4 key to select the setting and the Main Screen will appear.



Press the #2 key to change the setting. On the following screen, use the #2/+ key to increase the setting or the #3/- screen to decrease the setting. Once the desired setting has been reached, press the #4 key to set and the Main Screen will appear. To select or change the remaining three pre-sets, scroll to the User Pre-Sets screen and repeat the above procedure.



## Volume Pumped Screen

The Volume Pumped screen shows the total number of gallons or liters sprayed by the sprayer.

VOLUME PUMPED  
SELECT-4 MENU-1

To select the Volume Pumped screen, press the #4 key.

GALLONS XXXXXX  
PRESS 1 FOR MENU

## Job Volume Screen

The Job Volume screen allows the user to reset a gallon counter to track usage on specific jobs.

JOB VOLUME  
SELECT-4 MENU-1

To select the Job Volume screen, press the #4 key.

JOB GALLONS XXXX  
MENU-1 RESET-3

## Unit Serial # Screen

The Unit Serial # screen shows the sprayers serial number.

UNIT SERIAL #  
SELECT-4 MENU-1

To select the Unit Serial # screen, press the #4 key.

SER # XXXXXXXXXXXX  
PRESS 1 FOR MENU

## Timers Screen

The Timers screen shows the total time the sprayer has been turned on as well as the total time the sprayer has been running (pumping).

TIMERS  
SELECT-4 MENU-1

To select the Timers screen, press the #4 key.

ON TIME XXXX:XX  
RUN TIME XXXX:XX

## Job Timers Screen

The Job Timers screen allows the user to reset the "ON TIME" and "RUN TIME" to track time on specific jobs.

JOB TIMERS  
SELECT-4 MENU-1

To select the Job Timers screen, press the #4 key. The screen will toggle between the timers and a screen that allows the user to reset the timers.

ON TIME XXXX:XX  
RUN TIME XXXX:XX

## Service Time Screen

The Job Volume screen allows the user to reset a gallon counter to track usage on specific jobs.

SERVICE TIME  
SELECT-4 MENU-1

The Service Time screen allows the user to set a service time interval (in hours). Below the set time, the screens shows the current amount of hours on the sprayer. To select the Service Timer screen, press the #4 key.

The screen will toggle between the service hours and a screen that allows the user to change the service time interval.

SERVICE @ XXXHR  
RUN HOURS XX

When the service time interval is set and met by the run hours, the display will toggle between the "Main screen" and a "Service Required" screen at sprayer startup. To stop the toggling, scroll to the "Service Time" screen and either set a new service time interval or set the service time to "0".

## Pressure Screen

The Pressure screen allows the user to see the current set point pressure as well as the actual working pressure.

PRESSURE  
SELECT-4 MENU-1

To select the Pressure screen, press the #4 key. This screen is also the Main Screen.

SET PSI 3000  
ACTUAL PSI 2950

## Security Code Screen

The Security Code screen allows the user to set a four digit security code to prevent unauthorized use of the sprayer. If a security code has been set, the control system display will ask for the code at startup. If the correct code is entered, the display will show the Main Screen and the sprayer will operate. If the wrong code is entered, the display will

continue to ask for the correct code and the sprayer will be disabled. To set or change the security code, press the #2 key.

**NOTE: If the sprayer is new, no security code is set and the Main Screen will appear at startup. Also, when setting a security code for the first time, the "Enter Old Code Number" screen will not appear.**

Enter the old security code number to access the screen that allows the code change. If the wrong code is entered, the display will continue to ask for the correct code and the security code cannot be changed.

ENTER OLD CODE  
NUMBER

Enter the new security code. Once the new code is entered, the display will automatically ask that the new code be re-entered for verification. If the same new code is re-entered, the display will confirm that the new code has been accepted and return to the Main Screen. If the new code is re-entered incorrectly, the display will return to the "Enter New Code Number" screen and the process will repeat.

ENTER NEW CODE  
NUMBER

**NOTE: To inactivate the X-Lock security function, enter "1111" at the "Enter New Code Number" screen (this is the default code that leaves the sprayer unlocked). As a result, the Main Screen will appear at sprayer startup.**

## Prime Screen

The Prime screen appears when the pressure control knob is set at the "Min" setting in the yellow zone.

PRIME

## Pulse Clean Screen

The Pulse Clean screen appears when the pressure control knob is set at the PULSE CLEAN position in the red zone and the PRIME/SPRAY valve is in the PRIME position.

PULSE CLEAN  
ACTUAL PSI XXXX

**NOTE: If there is no action at any menu screen for 30 seconds, the display will go back to the Main Screen.**

## Paint Spraying Technique



**POSSIBLE INJECTION HAZARD. Do not spray without the tip guard in place. Never trigger the gun unless the tip is in either the spray or the unclog position. Always engage the gun trigger lock before removing, replacing, or cleaning tip.**

The following techniques, if followed, will assure professional painting results.

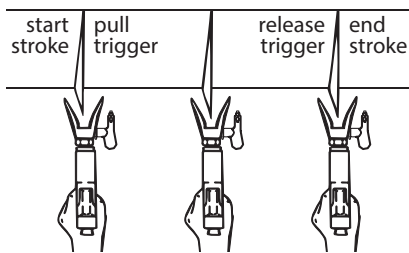
**NOTE: Modified spraying techniques may be necessary when spraying textured products. This may include adjustment to gun position, spraying distance, and pressure settings as well as the addition of a splatter nozzle.**

Hold the gun perpendicular to the surface and always at equal distance from the surface. Depending on the type of material, surface, or desired spray pattern, the gun should be held at a distance of 12 to 14 inches (30 to 35 cm).

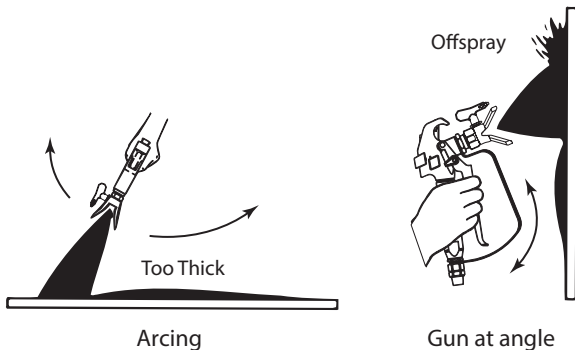
Move the gun either across or up and down the surface at a steady rate. Moving the gun at a consistent speed conserves material and provides even coverage. The correct spraying speed allows a full, wet coat of material to be applied without runs or sags.

Holding the gun closer to the surface deposits more material on the surface and produces a narrower spray pattern. Holding the gun farther from the surface produces a thinner coat and wider spray pattern. If runs, sags, or excessive material occur, change to a spray tip with a smaller orifice. If there is an insufficient amount of material on the surface or you desire to spray faster, a larger orifice tip should be selected.

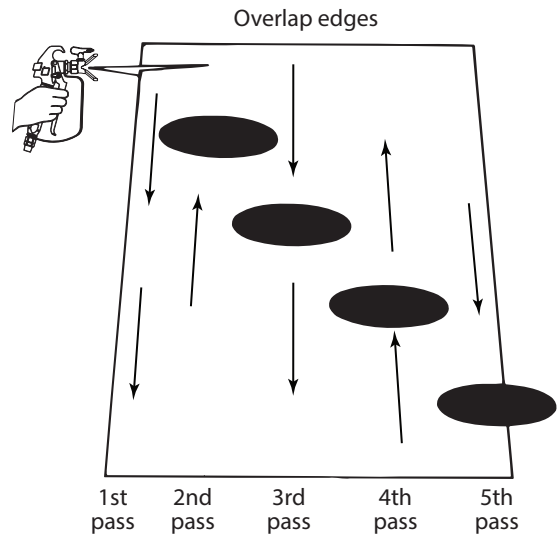
Maintain uniform spray stroke action. Spray alternately from left to right and right to left. Begin movement of the gun before the trigger is pulled.



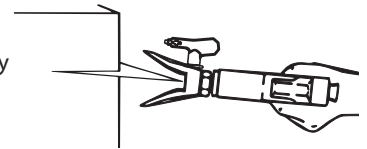
Avoid arcing or holding the gun at an angle. This will result in an uneven finish.



Proper lapping (overlap of spray pattern) is essential to an even finish. Lap each stroke. If you are spraying horizontally, aim at the bottom edge of the preceding stroke, so as to lap the previous pattern by 50%.



For corners and edges, split the center of the spray pattern on the corner or edge and spray vertically so that both adjoining sections receive approximately even amounts of paint.



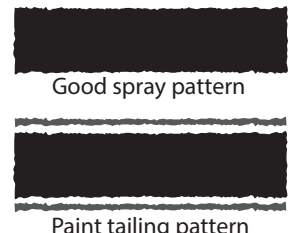
When spraying with a shield, hold it firmly against the surface. Angle the spray gun slightly away from the shield and toward the surface. This will prevent paint from being forced underneath.

Shrubs next to houses should be tied back and covered with a canvas cloth. The cloth should be removed as soon as possible. Titan gun extensions are extremely helpful in these situations.

Nearby objects such as automobiles, outdoor furniture, etc. should be moved or covered whenever in the vicinity of a spray job. Be careful of any other surrounding objects that could be damaged by overspray.

### Practice

1. Make sure that the spray hose is free of kinks and clear of objects with sharp cutting edges.
2. Set the pressure to minimum by turning the pressure control knob to the "Min" setting in the yellow zone.
3. Move the PRIME/SPRAY valve up to its SPRAY position.
4. Turn the pressure control knob clockwise to its highest setting in the green zone. The spray hose should stiffen as material begins to flow through it.
5. Unlock the gun trigger lock.
6. Trigger the spray gun to bleed air out of the hose.
7. When material reaches the spray tip, spray a test area to check the spray pattern.
8. Use the lowest pressure setting necessary to get a good spray pattern. If the pressure is set too high, the spray pattern will be too light. If the pressure is set too low, tailing will appear or the paint will spatter out in gobs rather than in a fine spray.





## Cleanup



### Special cleanup instructions for use with flammable solvents:

- Always flush spray gun preferably outside and at least one hose length from spray pump.
- If collecting flushed solvents in a one gallon metal container, place it into an empty five gallon container, then flush solvents.
- Area must be free of flammable vapors.
- Follow all cleanup instructions.

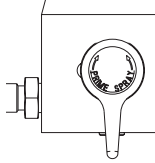
**IMPORTANT: The sprayer, hose, and gun should be cleaned thoroughly after daily use. Failure to do so permits material to build up, seriously affecting the performance of the unit.**



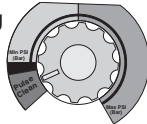
**Always spray at minimum pressure with the gun nozzle tip removed when using mineral spirits or any other solvent to clean the sprayer, hose, or gun. Static electricity buildup may result in a fire or explosion in the presence of flammable vapors.**

1. Follow the "Pressure Relief Procedure" found in the Operation section of this manual.
2. Remove the gun tip and tip guard and clean with a brush using the appropriate solvent.
3. Place the foot valve into a container of the appropriate solvent (refer to recommendations of the material manufacturer). An example of an appropriate solvent is water for latex paint.
4. Place the return hose into a metal waste container.
5. Move the PRIME/SPRAY valve down to its PRIME position.

**NOTE: Hold the return hose in the waste container when moving the PRIME/SPRAY valve to PRIME in case the sprayer is pressurized.**



6. Set the pressure to Turbo PulseClean by turning the pressure control knob to its PULSE CLEAN position in the red zone.
7. Turn on the sprayer by moving the ON/OFF switch to the ON position.
8. Allow the solvent to circulate through the unit and flush the paint out of the return hose into the metal waste container.
9. Turn off the sprayer by moving the ON/OFF switch to the OFF position.
10. Move the PRIME/SPRAY valve up to its SPRAY position.
11. Turn on the sprayer.



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



12. Trigger the gun into the metal waste container until the paint is flushed out of the hose and solvent is coming out of the gun.
13. Continue to trigger the spray gun into the waste container until the solvent coming out of the gun is clean.

**NOTE: For long-term or cold weather storage, pump mineral spirits through the entire system. For short-term storage when using latex paint, pump water mixed with Titan Liquid Shield through the entire system (see the Accessories section of this manual for part number).**

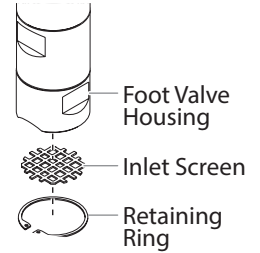
14. Follow the "Pressure Relief Procedure" found in the Operation section of this manual.
15. Unplug the unit and store in a clean, dry area.

**IMPORTANT: Do not store the unit under pressure.**

## Cleaning the Inlet Screen

The inlet screen will clog and must be cleaned at least once a day.

1. Remove the retaining ring from the foot valve housing
2. Remove the inlet screen from the Foot valve housing.
3. Clean thoroughly with the appropriate solvent.



## Maintenance



**Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!**

## General Repair and Service Notes

The following tools are needed when repairing this sprayer:

Phillips Screwdriver	3/8" Hex Wrench
Needle Nose Pliers	5/16" Hex Wrench
Adjustable Wrench	1/4" Hex Wrench
Rubber Mallet	3/16" Hex Wrench
Flat-blade Screwdriver	5/32" Hex Wrench

1. Before repairing any part of the sprayer, read the instructions carefully, including all warnings.

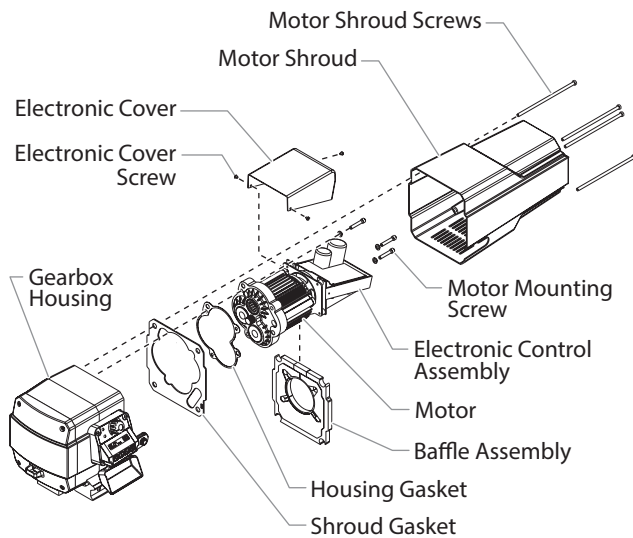
**IMPORTANT: Never pull on a wire to disconnect it. Pulling on a wire could loosen the connector from the wire.**

2. Test your repair before regular operation of the sprayer to be sure that the problem is corrected. If the sprayer does not operate properly, review the repair procedure to determine if everything was done correctly. Refer to the Troubleshooting Charts to help identify other possible problems.
3. Make certain that the service area is well ventilated in case solvents are used during cleaning. Always wear protective eyewear while servicing. Additional protective equipment may be required depending on the type of cleaning solvent. Always contact the supplier of solvents for recommendations.
4. If you have any further questions concerning your Titan Airless Sprayer, call TITAN:

Customer Service (U.S.) ..... **1-800-526-5362**  
 Fax ..... **1-800-528-4826**

## Replacing the Motor Assembly

1. Perform the Pressure Relief Procedure and unplug the sprayer.
2. Loosen and remove the four motor shroud screws. Remove the motor shroud.
3. Release the tie wrap on the top of the baffle assembly and slip the baffle assembly down off of the motor.
4. Loosen and remove the three electronic cover screws. Lift the electronic cover off of the electronic control assembly on the motor.
5. Disconnect all wires between the motor and the sprayer.
6. Loosen and remove the three motor mounting screws.
7. Pull the motor out of the gearbox housing.
8. With the motor removed, inspect the gears in the gearbox housing for damage or excessive wear. Replace the gears, if necessary.
9. Install the new motor into the gearbox housing. Make sure the housing gasket is positioned properly.
10. Secure the motor with the three motor mounting screws.
11. Reconnect the wires between the sprayer and the new motor. (refer to the electrical schematic in the Parts List section of this manual).
12. Position the electronic cover over the electronic control assembly. Secure the electronic cover with the three electronic cover screws.
13. Slip the baffle assembly up and around the motor. Secure the baffle assembly with the tie wrap.
14. Slide the motor shroud over the motor. Make sure the shroud gasket is positioned properly.
15. Secure the motor shroud with the four motor shroud screws.

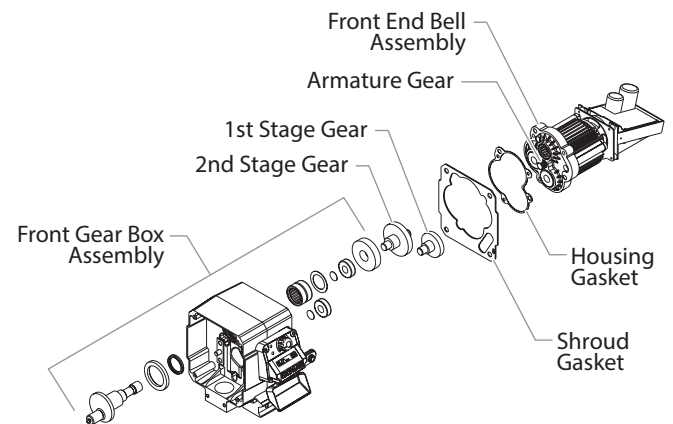


## Replacing the Gears

1. Perform the Pressure Relief Procedure and unplug the sprayer.
2. Loosen and remove the four motor shroud screws. Remove the motor shroud.
3. Release the tie wrap on the top of the baffle assembly and slip the baffle assembly down off of the motor.
4. Loosen and remove the three electronic cover screws. Lift the electronic cover off of the electronic control assembly on the motor.
5. Disconnect all wires between the motor and the sprayer.
6. Loosen and remove the three motor mounting screws.
7. Pull the motor out of the gearbox housing.
8. Inspect the armature gear on the end of the motor for damage or excessive wear. If this gear is completely worn out, replace the front end bell assembly.
9. Remove and inspect the 1st stage gear and 2nd stage gear assemblies for damage or excessive wear. Replace, if necessary.
10. Remove and inspect the front gear box assembly for damage or excessive wear. If damaged or worn, replace the front gear box assembly.

**NOTE: Clean and refill the gear box cavity up to the rear face of each gear with Lubriplate (P/N 314-171).**

11. Install the motor into the gearbox housing. Make sure the housing gasket is positioned properly.
12. Secure the motor with the three motor mounting screws.
13. Reconnect the wires between the sprayer and the motor. (refer to the electrical schematic in the Parts List section of this manual).
14. Position the electronic cover over the electronic control assembly. Secure the electronic cover with the three electronic cover screws.
15. Slip the baffle assembly up and around the motor. Secure the baffle assembly with the tie wrap.
16. Slide the motor shroud over the motor. Make sure the shroud gasket is positioned properly.
17. Secure the motor shroud with the four motor shroud screws.

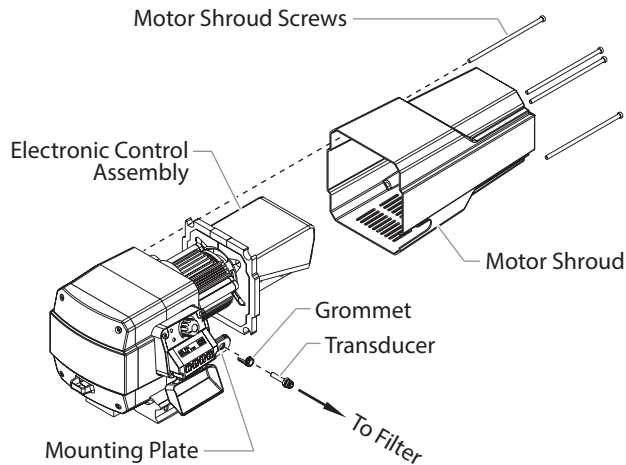


## Replacing the Transducer

1. Perform the Pressure Relief Procedure and unplug the sprayer.
2. Loosen and remove the four motor shroud screws. Remove the motor shroud.
3. At the electronic control assembly, disconnect the wire coming from the transducer.
4. Pull the grommet out of the mounting plate and slide it up the shaft of the transducer until it is clear of the mounting plate.
5. Using a wrench, loosen and remove the transducer from the filter housing. Carefully thread the transducer wire out through the mounting plate.
6. Slide the grommet off of the old transducer and onto the new transducer.
7. Thread the new transducer wire through the mounting plate and up to the electronic control assembly.
8. Thread the new transducer into the filter housing and tighten securely with a wrench.

**NOTE: Make sure the o-ring on the transducer is in place before threading the transducer into the filter housing.**

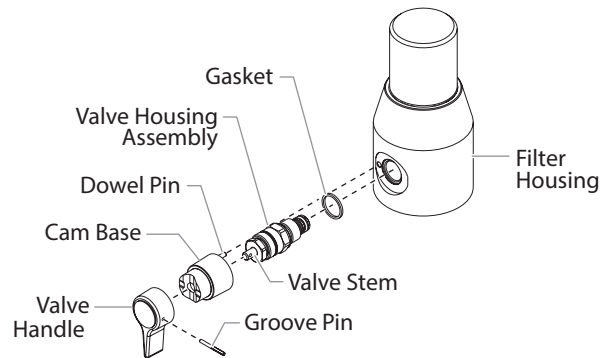
9. Push the grommet into the mounting plate.
10. Connect the transducer wire to the electronic control assembly (refer to the electrical schematic in the Parts List section of this manual).
11. Slide the motor shroud over the motor. Make sure the shroud gasket is positioned properly.
12. Secure the motor shroud with the four motor shroud screws.



## Replacing the prime/spray Valve

Perform the following procedure using PRIME/SPRAY valve replacement kit P/N 800-915.

1. Push the groove pin out of the valve handle.
2. Remove the valve handle and the cam base.
3. Using a wrench, loosen and remove the valve housing assembly.
4. Make sure the gasket is in place and thread the new valve housing assembly into the filter block. Tighten securely with a wrench.
5. Place the cam base over the valve housing assembly. Lubricate the cam base with grease and line up the cam with the filter block using the dowel pin.
6. Line up the hole on the valve stem with the hole in the valve handle.
7. Insert the groove pin into the valve handle and through the valve stem to secure the valve handle in position.



## Servicing the Fluid Section

Use the following procedures to service the valves and repack the fluid section. Perform the following steps before performing any maintenance on the fluid section.

1. Loosen and remove the four front cover screws. Remove the front cover.
2. Position the crankshaft/slider assembly at the bottom, dead-center of its stroke so that the connecting pin and retaining ring are visible below the slider assembly. This is done by turning the sprayer on and off in short bursts until the connecting pin is visible below the slider housing.
3. Turn off and unplug the sprayer.



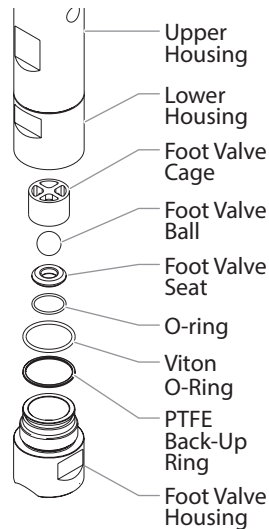
**Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!**

4. Remove the return hose from the hose clamp on the fluid section.
5. Loosen and remove the high-pressure hose from the fitting on the upper housing of the fluid section.

## Servicing the Valves

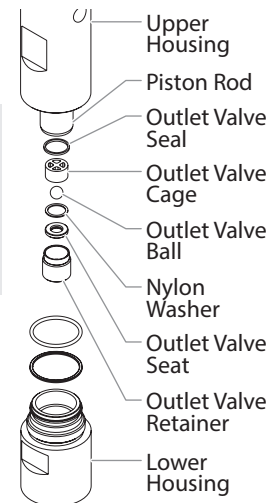
The design of the fluid section allows access to the foot valve and seat as well as the outlet valve and seat without completely disassembling the fluid section. It is possible that the valves may not seat properly because of debris stuck in the foot valve seat or outlet valve seat. Use the following instructions to clean the valves and reverse or replace the seats.

1. Loosen and remove the foot valve housing from the lower housing.
2. Clean out any debris in the foot valve housing and examine the housing and the foot valve seat. If the seat is damaged, reverse or replace the seat.
3. Using two wrenches, hold the upper housing at the wrench flats with one wrench and loosen the lower housing with the other. Remove the lower housing.
4. Using a 3/4" wrench, loosen and remove the outlet valve retainer from the piston rod.



**NOTE: Always service the outlet valve with the piston rod attached to the pump. This will prevent the piston rod from rotating during disassembly of the outlet valve.**

5. Clean out any debris and examine the retainer and outlet valve seat. If the seat is damaged, reverse or replace the seat.
6. Remove, clean, and inspect the outlet valve cage and outlet valve ball. Replace if they are worn or damaged.
7. Reassemble the valves by reversing the steps above.



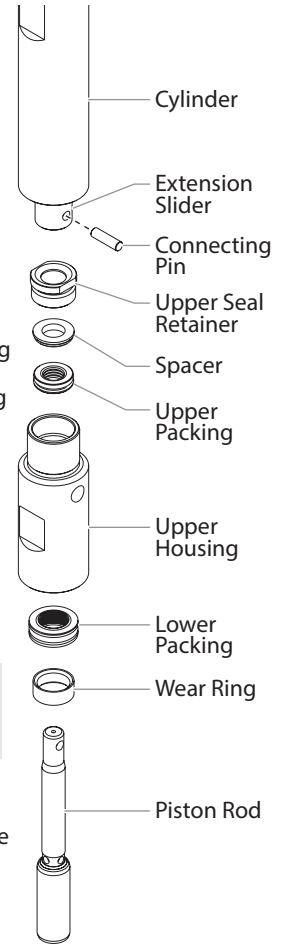
**NOTE: During reassembly, make sure the Viton o-rings and the PTFE back-up rings between the upper housing and lower housing as well as between the lower housing and the foot valve housing are lubricated with grease and in position.**

## Repacking the Fluid Section

1. Remove the foot valve assembly and the lower housing using the steps in the "Servicing the Valves" procedure above.

**NOTE: The outlet valve does not need to be disassembled from the piston rod for this procedure.**

2. Turn the upper housing counterclockwise to loosen it from the cylinder.
3. Slowly pull down the upper housing just far enough to expose the extension slider and the connecting pin that connects the piston rod to the extension slider.
4. Push the connecting pin out of the extension slider and piston rod and remove the piston rod/upper housing.
5. Place the upper housing upright in a vise by clamping on the wrench flats.



**NOTE: Do not over-tighten the vise. Damage to the upper housing may occur.**

6. Using a wrench, remove the upper seal retainer.
7. Slide the piston rod out through the bottom of the upper housing.
8. Inspect the piston rod for wear and replace if necessary.
9. Remove the upper and lower packings from the upper housing.

**NOTE: Be careful not to scratch, score, or otherwise damage the upper housing during removal of the packings.**

10. Clean the upper housing. Inspect the upper housing for damage and replace if necessary.
11. Locate the new upper and lower packings and pack the areas between the packing lips with grease. Lubricate the o-rings on the exterior of the packings with grease.

12. Insert the upper packing into the top of the upper housing with the raised lip on the packing facing down.

Install upper packing with raised lip facing down.

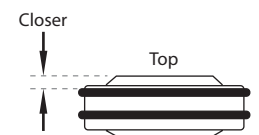


Raised Lip

13. Insert the spacer on top of the upper packing.
14. Thread the upper seal retainer into the upper housing and torque to 25-30 ft. lbs.
15. Pre-form the lower packing using the lower packing sizing tool (included in the repacking kit).

16. Insert the lower packing partially into the bottom of the upper housing so that the side that has the o-ring closest to the face of the packing faces up.

Install lower packing with the side that has the o-ring closest to the face of the packing facing up.



17. Push the lower packing into position using the lower packing insertion tool (see Fluid Section Assembly parts list for lower packing insertion tool P/N).
18. Place the piston insertion tool (included in the repacking kit) over the top of the piston rod.

19. Insert the piston rod into the bottom of the upper housing, through the lower packing, through the upper packing, and out through the upper seal retainer.

**NOTE: When repacking the fluid section, make sure the raised lip on the bottom of the lower packing is fully outside the packing around the piston rod after insertion of the piston rod.**

20. Remove the piston insertion tool from the top of the piston rod.
21. Lubricate the threads on the upper housing with anti-seize compound. Remove the upper housing from the vise.
22. Insert the piston rod into the extension slider. When the connecting pin hole on the piston rod lines up with the hole in the extension slider, insert the connecting pin.
23. Thread the upper housing into the cylinder, turning clockwise.
24. Continue to turn the upper housing clockwise until it is flush against the cylinder.

**NOTE: If the fitting on the upper housing does not face the tool box side of the unit, turn the upper housing counterclockwise until the nipple faces the tool box side of the unit. Do not turn the upper housing more than one full turn counterclockwise.**

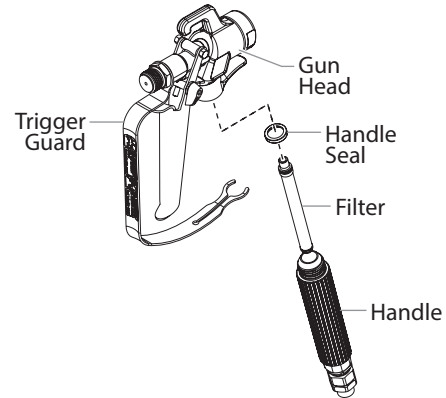
25. Making sure that the Viton o-ring and PTFE back-up ring are lubricated and in place, thread the lower housing into the upper housing. Using two wrenches, hold the upper housing at the wrench flats with one wrench and tighten the lower housing with the other.
26. Attach the high-pressure hose to the fitting on the upper housing and tighten with a wrench. Do not kink the hose.
27. Making sure that the Viton o-ring and PTFE back-up ring are lubricated and in place, reassemble the foot valve assembly and thread it into the lower housing. Tighten securely.
28. Replace the return hose into the clamp on the siphon tube.
29. Place the front cover on the gearbox housing and secure in position using the four front cover screws.
30. Turn on the sprayer by following the procedure in the "Operation" section of this manual and check for leaks.

**NOTE: Repacking kit P/N 800-273 is available. For best results use all parts supplied in this kit.**

## Replacing the Filters

### Gun Filter

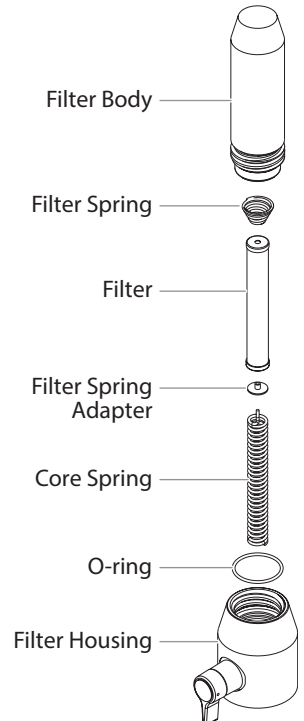
1. Pull the bottom of the trigger guard forward so that it comes loose from the handle assembly.
2. Loosen and remove the handle assembly from the gun head.
3. Pull the old filter out of the gun head.
4. Slide the new filter, tapered end first, into the gun head.
5. Make sure all the parts are clean and the handle seal is in position inside the gun head.
6. Thread the handle assembly into the gun head until secure.
7. Snap the trigger guard back onto the handle assembly.



**NOTE: For more detail, part number information, and complete assembly drawings, refer to the S-3 Airless Spray Gun Owner's Manual (P/N 313-2440).**

### Pump Filter

1. Loosen and remove the filter body by hand.
2. Slip the filter off of the core spring.
3. Inspect the filter. Based on inspection, clean or replace the filter.
4. Inspect the o-ring. Based on inspection, clean or replace the o-ring.
5. Slide the new or cleaned filter over the core spring with the filter spring adapter in place. Push the filter into the center of the filter housing.
6. Slide the filter body over the filter and thread it into the filter housing until secure.



**NOTE: The filter body should be hand-tightened, but make sure it is seated fully into the filter housing.**

# Troubleshooting

## Problem

## Cause

## Solution

A. The unit will not run.

1. The unit is not plugged in.
2. Tripped breaker.
3. The pressure is set too low (pressure control knob set at minimum setting does not supply power to unit).
4. Faulty or loose wiring.
5. Excessive motor temperature.
6. ON/OFF switch is defective.

1. Plug the unit in.
2. Reset the breaker.
3. Turn the pressure control knob clockwise to supply power to the unit and increase the pressure setting.
4. Inspect or take to a Titan authorized service center.
5. Allow motor to cool.
6. Replace the ON/OFF switch.

B. The unit will not prime.

1. The PRIME/SPRAY valve is in the SPRAY position.
2. Air leak in the siphon tube/siphon assembly.
3. The pump filter and/or inlet screen is clogged.
4. The siphon tube/siphon assembly is clogged.

1. Rotate the PRIME/SPRAY valve clockwise to the PRIME position.
2. Check the siphon tube/siphon assembly connection and tighten or re-tape the connection with PTFE tape.
3. Remove the pump filter element and clean. Remove the inlet screen and clean.
4. Remove the siphon tube/siphon assembly and clean.

C. The unit will not build or maintain pressure.

1. The spray tip is worn.
2. The spray tip is too large.
3. The pressure control knob is not set properly.
4. The pump filter, gun filter, or inlet screen is clogged.
5. Material flows from the return hose when the PRIME/SPRAY valve is in the SPRAY position.
6. Air leak in the siphon tube/siphon assembly.
7. There is external fluid leak.
8. There is an internal fluid section leak (packings are worn and/or dirty, valve balls are worn).
9. Worn valve seats
10. Motor powers but fails to rotate

1. Replace the spray tip following the instructions that came with the spray gun.
2. Replace the spray tip with a tip that has a smaller orifice following the instructions that came with the spray gun.
3. Turn the pressure control knob clockwise to increase the pressure setting.
4. Remove the pump filter element and clean. Remove the gun filter and clean. Remove the inlet screen and clean.
5. Clean or replace the PRIME/SPRAY valve.
6. Check the siphon tube/siphon assembly connection and tighten or re-tape the connection with PTFE tape.
7. Check for external leaks at all connections. Tighten connections, if necessary.
8. Clean the valves and service the fluid section following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual.
9. Reverse or replace the valve seats following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual.
10. Take unit to a Titan authorized service center.

D. Fluid leakage at the upper end of the fluid section.

1. The upper packings are worn.
2. The piston rod is worn.

1. Repack the pump following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual.
2. Replace the piston rod following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual.

E. Excessive surge at the spray gun.

1. Wrong type of airless spray hose.
2. The spray tip worn or too large.
3. Excessive pressure.

1. Replace hose with a minimum of 50' of 1/4" grounded textile braid airless paint spray hose.
2. Replace the spray tip following the instructions that came with the spray gun.
3. Rotate the pressure control knob counterclockwise to decrease spray pressure.

F. Poor spray pattern.

1. The spray tip is too large for the material being used.
2. Incorrect pressure setting.
3. Insufficient fluid delivery.
4. The material being sprayed is too viscous.

1. Replace the spray tip with a new or smaller spray tip following the instructions that came with the spray gun.
2. Rotate the pressure control knob to adjust the pressure for a proper spray pattern.
3. Clean all screens and filters.
4. Add solvent to the material according to the manufacturer's recommendations.

G. The unit lacks power.

1. The pressure adjustment is too low.
2. Improper voltage supply.

1. Rotate the pressure control knob clockwise to increase the pressure setting.
2. Reconnect the input voltage for 120V AC.

## Xact Digital Control System Error Messages

The following error message screens appear whenever the Xact Digital Control System detects a problem with the sprayer. Once a problem occurs and the error message appears, the sprayer will shut down.



**Before proceeding, follow the Pressure Relief Procedure outlined previously in this manual. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!**

### Check Paint Screen (E1)

The Check Paint screen appears when the pump pressure drops to a very low level and the pressure control knob has not been adjusted. Check the paint level and refill. Restart the sprayer by following the "Painting" procedure in the Operation section of this manual.

CHECK PAINT

### Check Transducer Screen (E2)

The Check Transducer screen appears when the transducer has become disconnected or is defective. Take the sprayer to a Titan authorized service center for repair.

CHECK TRANSDUCER

### Check Motor Screen (E3)

The Check Motor screen appears when the motor or motor sensor is defective. Take the sprayer to a Titan authorized service center for repair.

CHECK MOTOR

### Low Voltage Screen (E4)

The Low Voltage screen appears when the sprayer shuts down because of low input voltage. Check the power supply and correct the problem. Restart the sprayer by following the "Painting" procedure in the Operation section of this manual.

LOW VOLTAGE

### High Motor Temperature Screen (E5)

The High Motor Temperature screen appears when the temperature of the motor has risen too high. Take the sprayer to a Titan authorized service center for repair.

HIGH MOTOR  
TEMPERATURE

### High Control Temperature Screen (E6)

The High Control Temperature screen appears when the temperature of the Xact Digital Control System has risen too high. Take the sprayer to a Titan authorized service center for repair.

HIGH CONTROL  
TEMPERATURE

### High Load Check Mechanism Screen (E7)

The High Load Check Mechanism screen appears when the sprayer shuts down because of high current or when the sprayer goes into current fold back mode.. Take the sprayer to a Titan authorized service center for repair.

HIGH LOAD  
CHECK MECHANISM

### Exceeded Pressure Limit Screen (E8)

The Exceeded Pressure Limit screen appears when the sprayer pressure exceeds 3300 PSI / 22.8 MPa. Take the sprayer to a Titan authorized service center for repair.

EXCEEDED  
PRESSURE LIMIT

### Communication Error Screen (E9)

The Communication Error screen appears when the Xact Digital Control System loses communication with the control panel. Take the sprayer to a Titan authorized service center for repair.

COMMUNICATION  
ERROR

# Consignes de sécurité important



**Lire toutes ces consignes avant d'utiliser l'appareil. Garder ces consignes.**



**Indique une situation à risque, laquelle, si elle n'est pas évitée, peut entraîner des blessures graves, voire la mort.**

**Pour réduire les risques d'incendie ou d'explosion, de choc électrique et de blessure, vous devez lire et comprendre les directives figurant dans ce manuel. Familiarisez-vous avec les commandes et l'utilisation adéquate de l'équipement.**

## Instructions de mise à la terre

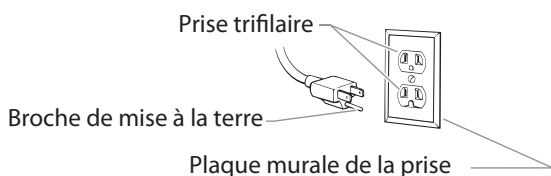
Cet appareil doit être mis à la terre. La mise à la terre réduit les risques d'électrocution lors d'un court-circuit en permettant au courant de s'écouler par le fil de mise à la terre. Cet appareil est muni d'un cordon électrique avec fil de mise à la terre ainsi que d'une fiche de terre. La fiche doit être branchée sur une prise installée correctement et mise à la terre conformément à la réglementation et aux codes en vigueur.



**MISE EN GARDE - Le fait de ne pas brancher correctement la fiche trifilaire de l'appareil peut entraîner des risques de choc électrique.**

Si on doit réparer ou remplacer le cordon ou la fiche, ne pas raccorder le fil de terre à la borne des broches plates (lames) de cette dernière. Ce fil, normalement vert (avec ou sans rayures jaunes), doit être relié à la broche de terre.

Consulter un technicien ou un électricien qualifié à défaut de comprendre l'ensemble des présentes directives ou en cas d'incertitude quant à la mise à terre de l'appareil. Ne pas modifier la fiche de l'appareil; si elle ne s'adapte pas dans la prise voulue, faire remplacer cette dernière par un électricien qualifié.



**IMPORTANT : Utiliser uniquement une rallonge à trois fils munie d'une fiche de terre dans une prise secteur mise à la terre correspondant au type de fiche de l'appareil. S'assurer que votre rallonge est en bon état. Lorsque vous utilisez une rallonge, assurez-vous qu'elle soit d'un calibre suffisant pour supporter l'intensité du courant requise par l'appareil. Une rallonge trop mince entraîne une chute de tension, une diminution de l'intensité et une surchauffe. Une rallonge de calibre 12 est recommandée. Si vous devez utiliser une rallonge à l'extérieur, celle-ci doit comprendre la marque W-A après la désignation indiquant le type de cordon. Par exemple, la désignation SJTW-A indique que le cordon est conçu pour être utilisé à l'extérieur.**



## MISE EN GARDE : EXPLOSION OU INCENDIE

**Les vapeurs inflammables, telles que les vapeurs de solvant et de peinture, dans une zone de travail peuvent s'enflammer ou exploser.**

### MESURES PRÉVENTIVES :

- Servez-vous de l'équipement dans un endroit bien aéré. Faites circuler beaucoup d'air frais dans l'endroit afin d'éviter l'accumulation de vapeurs inflammables dans la zone de pulvérisation. Entreposez l'ensemble de la pompe dans un endroit bien aéré. Ne pulvérisez pas l'ensemble de la pompe.
- S'entourer de toutes les précautions possibles lorsqu'on utilise des produits ayant un point d'éclair inférieur à 38°C (100°F). Le point d'éclair est la température à laquelle le liquide peut créer suffisamment de vapeurs et s'enflammer.
- Éliminez toutes les sources d'inflammation, comme les veilleuses, les cigarettes, les lampes électriques portatives et les toiles de protection en plastique (risque d'arc statique).
- Gardez la zone de travail exempte de débris, y compris des solvants, des chiffons et d'essence.
- Ne branchez ou ne débranchez pas les cordons d'alimentation, ne mettez pas l'appareil en marche, n'allumez ou n'éteignez pas les lumières lorsque des vapeurs inflammables sont présentes.
- Mettez à terre l'équipement et les objets conducteurs dans la zone de travail.
- Utilisez uniquement des tuyaux mis à la terre.
- Tenez le pistolet de pulvérisation fermement contre le côté d'un seau mis à la terre lorsque vous pulvérisez dans le seau.
- S'il y a production d'étincelles statiques ou si vous ressentez un choc, **arrêtez le fonctionnement immédiatement.**
- Soyez au courant du contenu de la peinture et des solvants à pulvériser. Lisez toutes les fiches signalétiques (FS) et les étiquettes des récipients de peinture et de solvant. Suivez les consignes de sécurité du fabricant de peinture et du solvant.
- N'utilisez pas de peinture ou de solvant contenant des hydrocarbures hydrogénés, comme du chlore, de l'eau de Javel, un agent anti-moisissure, du chlorure de méthylène et du trichloroéthane. Ils ne sont pas compatibles avec l'aluminium. Communiquez avec le fournisseur de revêtement au sujet de la compatibilité du produit avec l'aluminium.
- Gardez un extincteur dans la zone de travail.



# Consignes de sécurité important



## MISE EN GARDE : INJECTION CUTANÉE

Le jet de haute pression produit par cet appareil peut transpercer la peau et les tissus sous-jacents, causant des blessures graves pouvant entraîner l'amputation.

### MESURES PRÉVENTIVES :

- Ne dirigez pas le pistolet sur et ne pulvérisez pas les personnes ou les animaux.
- N'approchez pas les mains ni d'autres parties du corps de la sortie du produit. Par exemple, ne tentez pas d'arrêter une fuite avec une partie du corps.
- Utilisez toujours le protège-embout de la buse. Ne pulvérisez pas sans que le protège-embout de la buse ne soit installé.
- Utilisez exclusivement un embout de buse spécifié par le fabricant.
- Prenez garde quand vous nettoyez ou que vous changez les embouts de buse. Si l'embout se bouche pendant que vous pulvérisez, verrouillez TOUJOURS la détente du pistolet, arrêtez la pompe et libérez toute la pression avant de réparer ou de nettoyer l'embout ou le protecteur ou avant de changer d'embout. La pression n'est pas libérée par l'arrêt du moteur. La poignée du robinet-valve PRIME/SPRAY (AMORÇAGE/PULVÉRISATION) doit être placée sur PRIME pour libérer la pression. Consultez la PROCÉDURE DE LIBÉRATION DE PRESSION décrite dans le manuel de la pompe.
- Ne laissez pas l'appareil sous tension ou sous pression quand vous vous en éloignez. Quand vous n'utilisez pas l'appareil, éteignez-le et libérez la pression conformément aux instructions du fabricant.
- La pulvérisation à haute pression peut injecter des toxines dans le corps et causer de graves blessures corporelles. Si une telle injection se produisait, consultez immédiatement un médecin.
- Vérifiez les tuyaux et les pièces pour détecter des signes d'endommagement : une fuite peut injecter le produit dans la peau. Inspectez le tuyau avant chaque emploi. Changez tous les tuyaux ou pièces endommagés.
- Ce système peut produire une pression de 3300 PSI / 22.8 MPa. N'utilisez que les pièces de rechange ou les accessoires spécifiés par le fabricant et ayant une pression nominale minimum de 3300 PSI. Ceci est valable pour les embouts de pulvérisation, les protecteurs de buse, les pistolets, les rallonges, les raccords et le tuyau.
- Verrouillez toujours la détente quand vous ne pulvérisez pas. Vérifiez que le verrou de la détente fonctionne correctement.
- Vérifiez que toutes les connexions sont bien serrées avant d'utiliser l'appareil.
- Sachez comment arrêter l'appareil et le dépressuriser rapidement. Soyez bien familiarisé avec les commandes. La pression n'est pas libérée lorsque le moteur est arrêté. La poignée du robinet-valve PRIME/SPRAY doit être placée sur PRIME pour libérer la pression. Consultez la PROCÉDURE DE LIBÉRATION DE PRESSION décrite dans le manuel de la pompe.
- Retirez toujours l'embout de pulvérisation avant de rincer ou de nettoyer le système.

**REMARQUE À L'INTENTION DES MÉDECINS :** Les injections cutanées sont des lésions traumatiques; il importe donc de les traiter sans délai. On NE DOIT PAS retarder ce traitement sous prétexte de vérifier la toxicité du produit en cause, celle-ci n'étant conséquente que dans le cas d'injection directe de certains produits dans le système sanguin. Il pourrait s'avérer nécessaire de consulter un plasticien ou un spécialiste en chirurgie reconstructive de la main.



## MISE EN GARDE : GÉNÉRALITÉS

D'autres dangers peuvent entraîner des dommages matériels ou des blessures graves.

### MESURES PRÉVENTIVES :

- Portez toujours les gants, la protection oculaire, les vêtements et un respirateur ou masque appropriés quand vous peignez. Vapeurs dangereuses – Les peintures, solvants, insecticides et autres matières peuvent être dangereux s'ils sont inhalés ou entrent en contact avec le corps. Les vapeurs peuvent provoquer d'importantes nausées, une perte de connaissance ou un empoisonnement.
- Ne travaillez pas et ne pulvérisez pas près d'enfants. Éloignez toujours les enfants de l'équipement.
- Ne travaillez pas avec les bras au-dessus de la tête ni sur un support instable. Appuyez-vous bien sur les deux pieds pour toujours conserver l'équilibre.
- Soyez attentif et regardez ce que vous faites.
- N'utilisez pas l'appareil quand vous êtes fatigué ou sous l'influence de drogues ou d'alcool.
- Ne faites pas de nœuds avec le tuyau et ne le tordez pas trop. Le tuyau à vide peut présenter des fuites suite à l'usure, les nœuds ou les mauvais traitements. Une fuite risque d'injecter du produit dans la peau.
- N'exposez pas le tuyau à des températures ou des pressions supérieures à celles spécifiées par le fabricant.
- N'utilisez pas le tuyau pour tirer ou soulever l'équipement.
- Utilisez la plus basse pression possible pour rincer l'équipement.
- Respectez tous les codes locaux, étatiques et nationaux qui régulent la ventilation, la prévention d'incendies et le fonctionnement.
- Les normes de sécurité du gouvernement des États-Unis ont été adoptées dans la loi Occupational safety and Health Act (OSHA). Ces normes, en particulier la partie 1910 des Normes générales et la partie 1926 des Normes de construction, doivent être consultées.
- Avant chaque emploi, vérifiez tous les tuyaux pour détecter d'éventuelles coupures, fuites, abrasion ou couvercle bombé. Vérifiez l'état ou le mouvement des accouplements. Changez immédiatement le tuyau si l'une de ces conditions est vérifiée. Ne réparez jamais un tuyau de peinture. Remplacez-le par un tuyau conducteur à haute pression.
- Ne pulvérisez pas à l'extérieur par temps venteux.
- Débranchez toujours le cordon électrique de la prise avant de travailler sur l'équipement.

**IMPORTANT: Ne pas soulever par la poignée du chariot lors du chargement ou du déchargement.**

# Información de seguridad importante



**Lea toda la información de seguridad antes de operar el equipo. Guarde estas instrucciones.**



**Indica una situación peligrosa que, de no evitarse, puede causar la muerte o lesiones graves.**

**Para reducir los riesgos de incendios, explosiones, descargas eléctricas o lesiones a las personas, lea y entienda todas las instrucciones incluidas en este manual. Familiarícese con los controles y el uso adecuado del equipo.**

## Instrucciones para conectar a tierra

Este producto se debe conectar a tierra. En caso de que ocurra un corto circuito, la conexión a tierra reduce el riesgo de choque eléctrico al proporcionar un alambre de escape para la corriente eléctrica. Este producto está equipado con un cable que tiene un alambre de conexión a tierra con un enchufe de conexión a tierra apropiado. El enchufe se debe enchufar en una toma de corriente que se haya instalado y conectado a tierra debidamente, de acuerdo con todos los códigos y estatutos locales.



**ADVERTENCIA - La instalación incorrecta del enchufe a tierra puede ocasionar un riesgo de choque eléctrico.**

Si es necesario reparar o cambiar el cable o el enchufe, no conecte el cable verde a tierra a ninguno de las terminales de espiga plana. El cable con aislamiento de color verde por fuera con o sin rayas amarillas es el alambre a tierra y debe conectarse a la espiga a tierra.

Consulte a un electricista o técnico de servicio capacitado si las instrucciones para la conexión a tierra no se entienden claramente o si tiene dudas en cuanto a que el producto esté debidamente conectado a tierra. No modifique el enchufe que se incluye. Si el enchufe no encaja en el receptáculo, pida a un electricista capacitado que instale un receptáculo adecuado.

Receptáculo conectado a tierra



Pata a tierra

Tapa de la caja de receptáculo conectada a tierra

**IMPORTANTE: Use solamente extensiones trifilares que tengan un enchufe de conexión a tierra de 3 hojas y un receptáculo de triple ranura que acepte el enchufe del producto. Asegúrese de que su extensión esté en buenas condiciones. Cuando use una extensión, asegúrese de usar una que sea lo suficientemente resistente como para soportar la corriente que descargue su producto. Un cable de un tamaño menor causará una caída de voltage en la línea que dará como resultado una pérdida de energía y un sobrecalentamiento. Se recomienda usar un cable de calibre 12. Si se utiliza un cable de extensión en el exterior, tiene que estar marcado con el sufijo W-A después de la designación del tipo de cable. Por ejemplo, SJTW-A para indicar que el cable es apropiado para uso en exteriores.**



## ADVERTENCIA: EXPLOSIÓN O INCENDIO

Los vapores inflamables, como los vapores de las pinturas y los solventes, pueden encenderse o explotar en el área de trabajo.

### PREVENCIÓN:

- Use el equipo solo en áreas bien ventiladas. Mantenga un buen suministro de aire fresco moviéndose a través del área para mantener el aire al interior del área de pulverización libre de acumulación de vapores inflamables. Mantenga el conjunto de la bomba en un área bien ventilada. No pulverice el conjunto de la bomba.
- Tenga muchísimo cuidado al usar materiales cuyo punto de ignición sea inferior a 100°F (38°C). El punto de inflamación es la temperatura a la que un fluido puede producir vapores suficientes para encenderse.
- Elimine todas las fuentes de encendido como luces de piloto, cigarrillos, lámparas eléctricas portátiles y cubiertas plásticas (potenciales arcos estáticos).
- Mantenga el área de trabajo libre de desechos, lo que incluye solventes, trapos y gasolina.
- No conecte o desconecte cables de alimentación ni prenda o apague interruptores de luz o de energía cuando hay vapores inflamables presentes.
- Conecte a tierra el equipo y los objetos conductores en el área de trabajo. Asegúrese de que el cable de conexión a tierra (no viene equipado) está conectado desde el terminal de conexión a tierra a tierra verdadera.
- Use solo mangueras conectadas a tierra.
- Sostenga firmemente la pistola pulverizadora en el costado de un cubo conectado a tierra cuando se aprieta el gatillo hacia un cubo.
- Si hay formación estática de chispas o si usted siente una descarga, detenga inmediatamente la operación.
- Conozca el contenido de la pintura y de los solventes que se pulverizan. Lea todas las hojas de datos de seguridad de materiales (MSDS) y las etiquetas de los recipientes proporcionadas con las pinturas y solventes. Siga las instrucciones de seguridad de los fabricantes de las pinturas y los solventes.
- No use una pintura o un solvente que contenga hidrocarburos halogenados. Tales como: cloro, fungicida, blanqueador, cloruro de metileno y tricloroetano. Estos no son compatibles con el aluminio. Contacte con el proveedor del recubrimiento para obtener información acerca de la compatibilidad del material con el aluminio.
- Mantenga un extintor de incendios en el área.

# Información de seguridad importante



## ADVERTENCIA: LESIÓN POR INYECCIÓN

El flujo de pintura a alta presión que produce este equipo puede perforar la piel y los tejidos subyacentes, ocasionando lesiones graves y posible amputación. CONSULTE A UN MÉDICO INMEDIATAMENTE.

### PREVENCIÓN:

- No apunte con la pistola ni pulverice sobre ninguna persona ni animal.
- Mantenga las manos y el resto del cuerpo lejos de la descarga. Por ejemplo, no trate de detener fugas con ninguna parte de su cuerpo.
- Utilice siempre el protector de la boquilla. No pulverice sin el protector en su sitio.
- Utilice solamente la boquilla especificada por el fabricante.
- Tenga cuidado al limpiar y cambiar las boquillas. Si la boquilla se atasca durante la pulverización, ponga SIEMPRE el seguro del gatillo de la pistola, apague la bomba y libere toda la presión antes de reparar, limpiar el protector o la boquilla o cambiar la boquilla. La presión no se libera apagando el motor. Para liberar la presión hay que poner la manija de la válvula PRIME/SPRAY (cebar/pulverizar) en PRIME. Consulte el Procedimiento para liberar presión que se describe en el manual de la bomba.
- No deje el aparato con corriente ni con presión cuando nadie esté pendiente de ella. Cuando no utilice el aparato, apáguelo y libere la presión siguiendo las instrucciones del fabricante.
- La pulverización a alta presión puede inyectar toxinas en el cuerpo y producir daños graves en el mismo. En caso de que esto ocurra, visite a un médico inmediatamente.
- Compruebe las mangueras y las piezas en busca de daños; una fuga puede inyectar material en la piel. Inspeccione la manguera antes de cada uso. Sustituya las mangueras o las piezas dañadas.
- Este sistema es capaz de producir 3300 PSI / 22.8 MPa. Utilice solamente piezas de repuesto o accesorios especificados por el fabricante y con una capacidad nominal de 3300 PSI como mínimo. Entre ellos se incluyen boquillas pulverizadoras, protectores para las boquillas, pistolas, alargadores, racores y mangueras.
- Ponga siempre el seguro del gatillo cuando no esté pulverizando. Verifique que el seguro del gatillo funciona correctamente.
- Antes de utilizar el aparato, verifique que todas las conexiones son seguras.
- Aprenda a detener el aparato y a liberar la presión rápidamente. Familiarícese a conciencia con los controles. La presión no se libera apagando el motor. Para liberar la presión hay que poner la manija de la válvula PRIME/SPRAY (cebar/pulverizar) en PRIME. Consulte el Procedimiento para liberar presión que se describe en el manual de la bomba.
- Quite siempre la boquilla pulverizadora antes de enjuagar o limpiar el sistema.

**NOTA PARA EL MÉDICO: La inyección a través de la piel es una lesión traumática. Es importante tratar la lesión tan pronto sea posible. NO retrase el tratamiento para investigar la toxicidad. La toxicidad es un factor a considerar con ciertos revestimientos inyectados directamente en la corriente sanguínea. Puede ser aconsejable consultar con un cirujano plástico o un cirujano especialista en reconstrucción de las manos.**



## ADVERTENCIA: GENERAL

Puede causar daños materiales o lesiones graves.

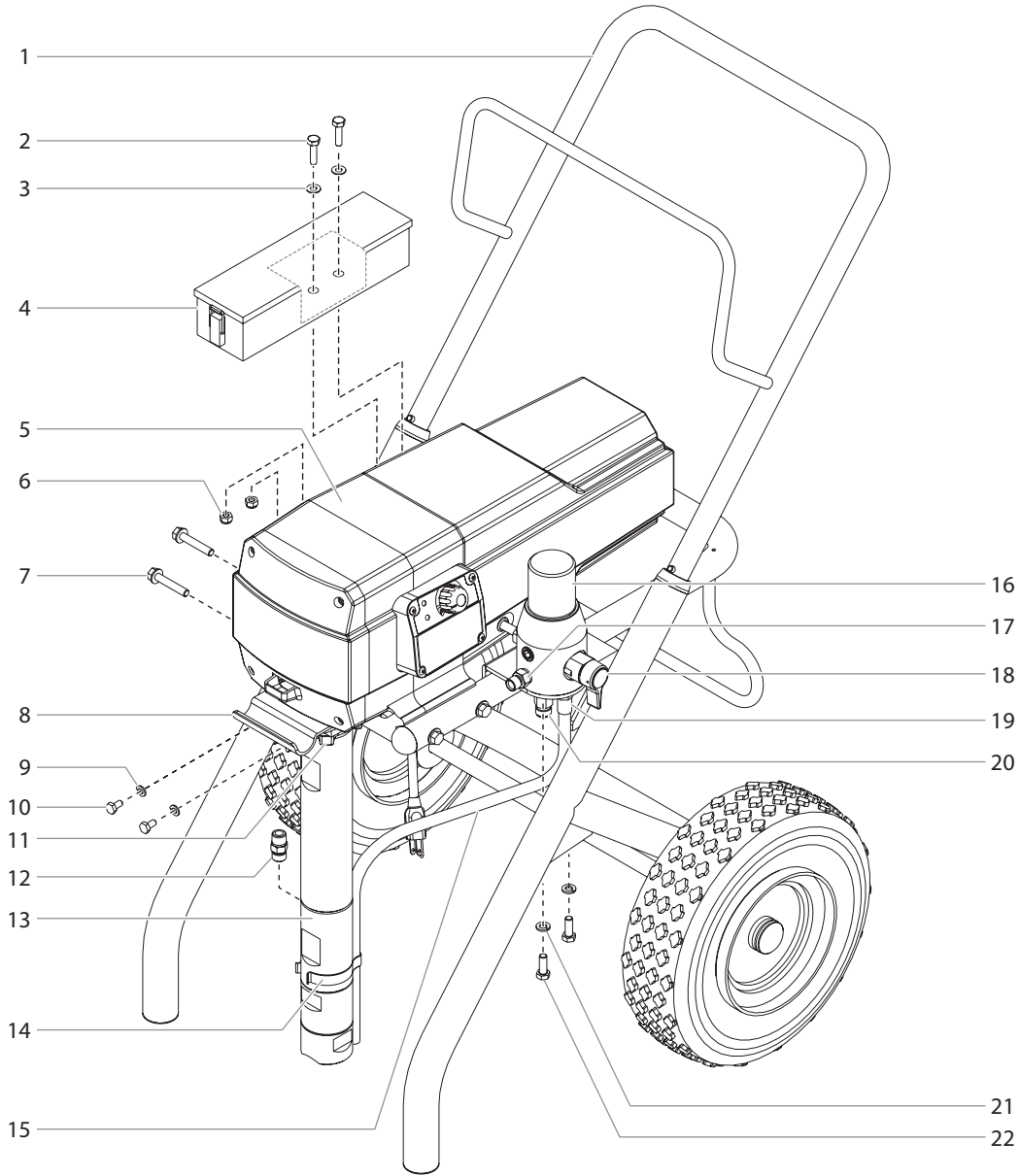
### PREVENCIÓN:

- Cuando pinte, lleve siempre guantes, protección para los ojos, ropa y un respirador o máscara adecuados. Vapores peligrosos: Las pinturas, disolventes, insecticidas y otros materiales pueden ser perjudiciales si se inhalan o entran en contacto con el cuerpo. Los vapores pueden producir náuseas intensas, desmayos o envenenamiento.
- Nunca utilice el aparato ni pulverice cerca de niños. Mantenga el equipo alejado de los niños en todo momento.
- No se estire demasiado ni se apoye sobre un soporte inestable. Mantenga los pies bien apoyados y el equilibrio en todo momento.
- No se distraiga y tenga cuidado con lo que hace.
- No utilice el aparato si está fatigado o se encuentra bajo la influencia del alcohol o de las drogas.
- No retuerza ni doble la manguera en exceso. En la manguera airless pueden aparecer fugas a causa del desgaste, de retorcimientos o de un mal uso. Una fuga puede inyectar material en la piel.
- No exponga la manguera a temperaturas o presiones que superen las especificadas por el fabricante.
- No utilice la manguera como elemento de fuerza para tirar del equipo o levantarlo.
- Utilice la presión más baja posible para enjuagar el equipo.
- Cumpla todos los reglamentos locales, estatales y nacionales pertinentes relativos a ventilación, prevención de incendios y funcionamiento.
- Las normas sobre seguridad del gobierno de los Estados Unidos se han adoptado al amparo de la Ley de salud y seguridad ocupacional (OSHA). Deben consultarse tres normas, particularmente la sección 1910 de las Normas generales y la sección 1926 de las Normas sobre construcción.
- Cada vez que vaya a utilizar el equipo, compruebe antes todas las mangueras en busca de cortes, fugas, abrasión o bultos en la cubierta. Compruebe el movimiento de los acoplamientos y si están dañados. Sustituya inmediatamente una manguera si descubre alguna de estas anomalías. No repare nunca una manguera de pintura. Sustitúyala por una manguera conductora a alta presión.
- No pulverice al aire libre si hace viento.
- Desenchufe siempre el cable antes de trabajar en el equipo.

**IMPORTANTE: No cargue el equipo por el asa del carrito durante la carga y descarga.**

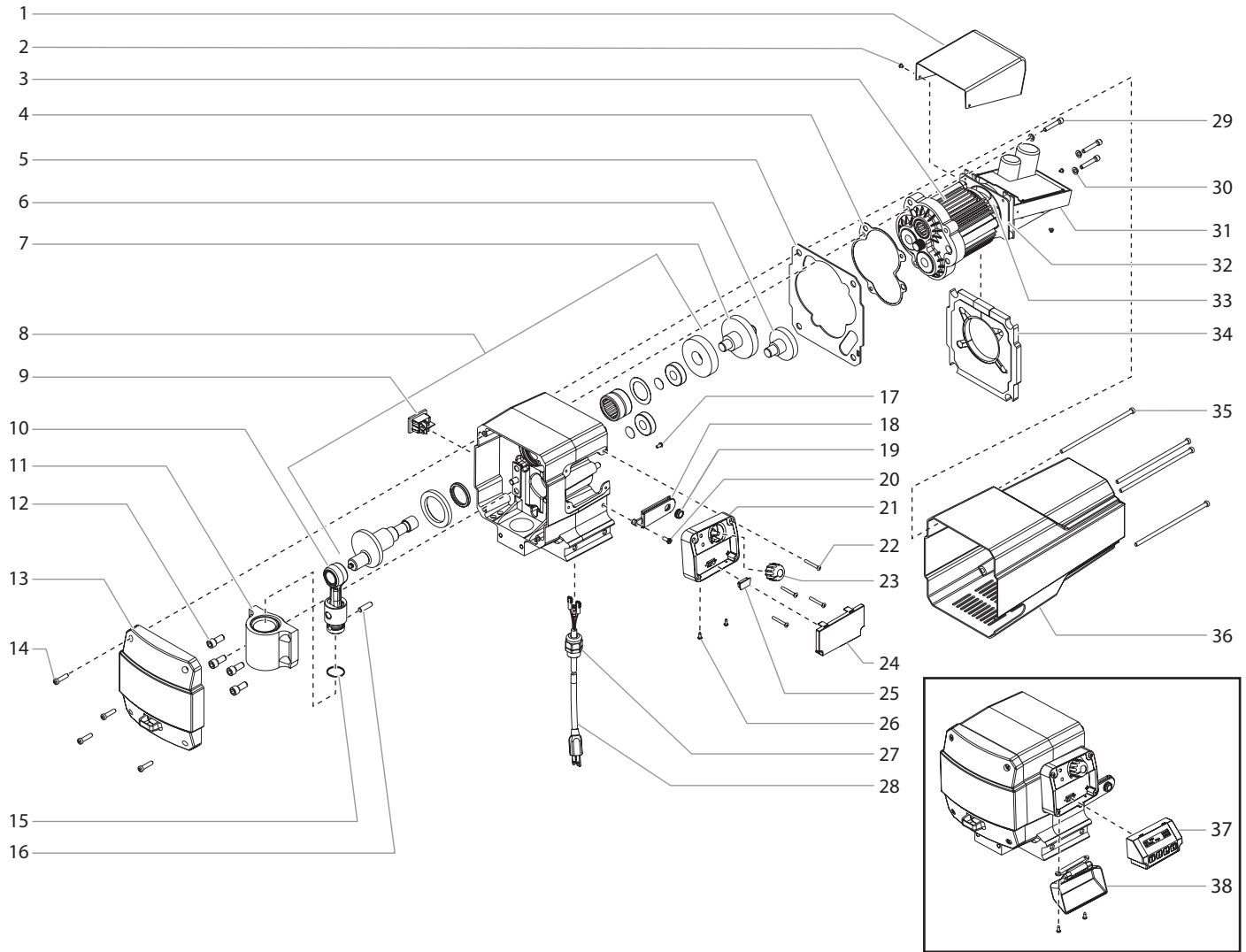
# Parts List

## Main Assembly



Item	Part #	Description	Quantity	Item	Part #	Description	Quantity
1	800-600	High rider cart .....	1	13	800-710	Fluid section assembly.....	1
2	800-477	Bolt .....	2	14	730-334	Hose clamp.....	1
3	800-478	Flat washer .....	2	15	800-904	Return hose .....	1
4	800-479	Tool box.....	1	16	800-481	Filter plug assembly .....	1
5	-----	Drive assembly (see separate listing).....	1	17	812-003	Outlet fitting .....	1
6	800-480	Hex nut .....	2	18	800-915	PRIME/SPRAY valve assembly.....	1
7	761-178	Screw .....	4	19	800-269	Fitting .....	1
8	800-324	Pail hook.....	1	20	800-482	Fitting .....	1
9	763-551	Lock washer .....	2	21	860-002	Lock washer .....	2
10	858-625	Screw .....	2	22	860-535	Screw .....	2
11	800-328	Knock-off nut.....	1	23	800-266	Hose (not shown).....	1
12	800-268	Fitting .....	1	24	818-002	Elbow (not shown).....	2

# Drive Assembly

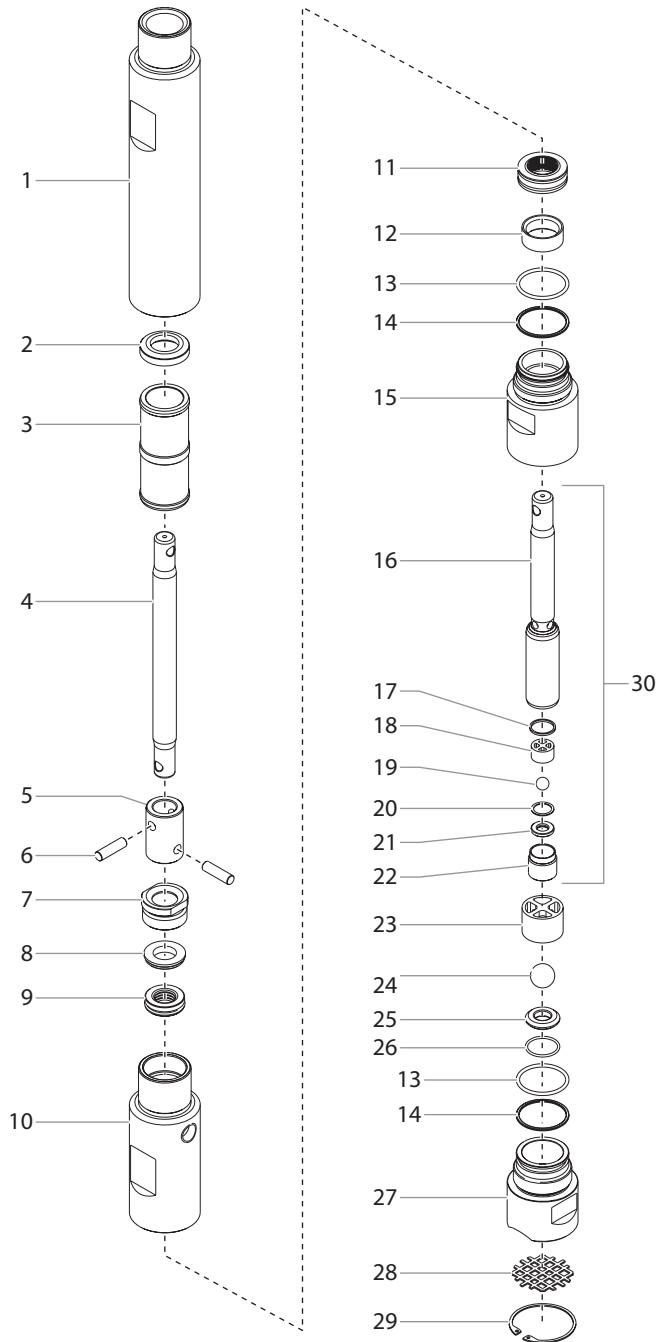


Item	Part #	Description	Quantity
1	800-078	Electronic cover .....	1
2	800-205	Screw .....	3
3	800-984	Motor assembly .....	1
4	800-525	Housing gasket .....	1
5	800-541	Shroud gasket .....	1
6	800-261	1st stage gear assembly .....	1
7	800-262	2nd stage gear assembly .....	1
8	800-694A	Front gearbox assembly .....	1
9	704-380	ON/OFF switch .....	1
10	800-510	Slider assembly .....	1
11	800-253	Slider housing .....	1
12	700-283	Screw .....	4
13	800-483	Front cover .....	1
14	800-284	Screw .....	4
15	800-382	Retaining ring .....	1
16	800-753	Connecting pin .....	1
17	800-229	Ground screw .....	1
18	779-568	Mounting plate .....	1
19	800-077	Grommet .....	1
20	800-076	Screw .....	1
21	800-688	Control panel .....	1
22	704-486	Screw .....	4
23	704-488	Pressure control knob .....	1
24	704-473	Control panel cover (for sprayers without Xact Digital Control System) .....	1

Item	Part #	Description	Quantity
25	704-599	Dust cover (for sprayers without Xact Digital Control System) .....	1
26	704-487	Screw .....	2
27	779-567	Strain relief .....	1
28	704-553	Power cord .....	1
29	700-287	Screw .....	3
30	763-551	Lock washer .....	3
31	800-658	Electronic control assembly .....	1
32	800-215	Fan shroud .....	1
33	800-294	Fan assembly .....	1
34	800-435	Baffle assembly .....	1
35	800-283	Screw .....	4
36	800-484	Motor shroud .....	1
37	704-469	Xact Digital Control System assembly (optional) .....	1
38	704-467	Xact Digital Control system cover (optional) .....	1
39	704-594	Surge suppressor (not shown) .....	1
40	800-929	Fuse, 15A (not shown) .....	1
41	770-781	Electronic control mounting screw (not shown) .....	4
42	765-060	Electronic control lock washer (not shown) .....	4
43	770-596	Electronic control washer (not shown) .....	4
	700-742	Tie wrap (not shown)	

**NOTE: All electrical work should be performed by a Titan authorized service center.**

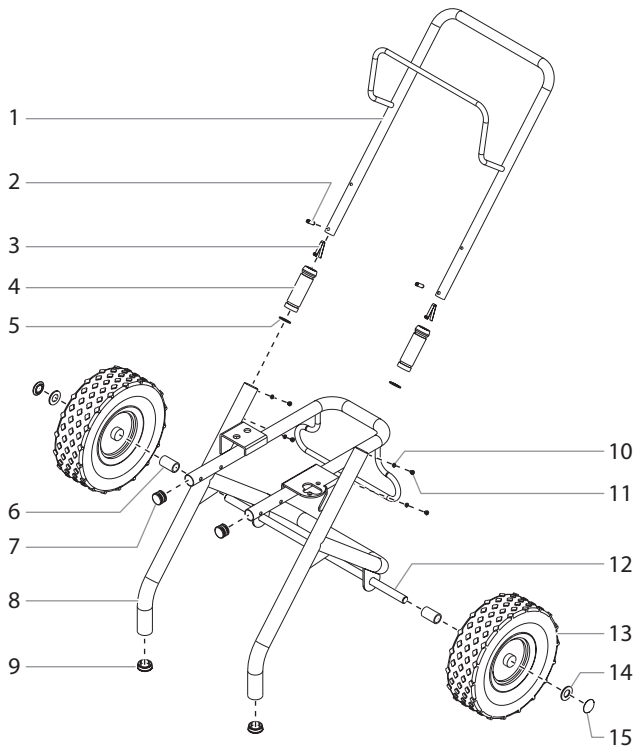
# Fluid Section Assembly (P/N 800-710)



Item	Part #	Description	Quantity
1	800-634	Cylinder .....	1
2	800-643	Stopping spacer .....	1
3	800-636	Extension bushing .....	1
4	800-638	Piston extension .....	1
5	800-637	Extension slider.....	1
6	800-639	Connecting pin .....	2
7	800-325	Upper seal retainer .....	1
8	800-327	Spacer.....	1
9	800-353	Upper packing assembly.....	1
10	800-351	Upper housing .....	1
11	800-355	Lower packing assembly.....	1
12	800-354	Wear ring.....	1
13	800-332	O-ring.....	2
14	800-333	Back-up ring, PTFE .....	2
15	800-352	Lower housing .....	1
16	800-246	Piston rod.....	1
17	800-348	Outlet valve seal .....	1
18	800-244	Outlet valve cage .....	1
19	704-702	Outlet valve ball.....	1
20	800-245	Washer, nylon.....	1
21	800-243	Outlet valve seat.....	1
22	800-336	Outlet valve retainer .....	1
23	800-322	Foot valve cage.....	1
24	288-011	Foot valve ball.....	1
25	800-241	Foot valve seat .....	1
26	762-058	O-ring .....	1
27	800-635	Foot valve housing.....	1
28	451-018	Inlet screen .....	1
29	431-054	Retaining ring.....	1
30	800-720	Piston assembly (includes items 16-22).....	1
	800-730	Repacking kit (includes items 8, 9, 11-14, 17, 19, 20, 24, and 26)	
	800-359	Lower packing insertion tool	

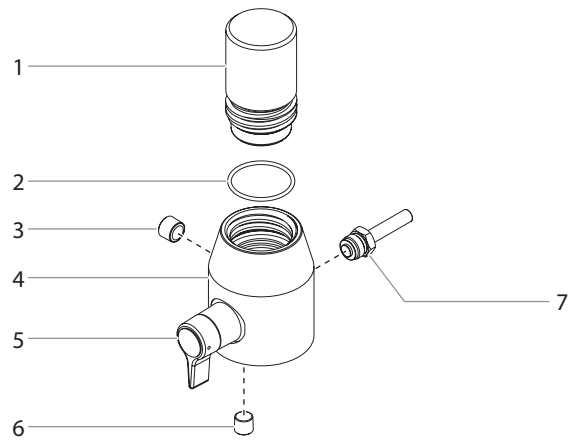
**NOTE:** When repacking the fluid section, make sure the raised lip on the bottom of the lower packing is fully outside the packing around the piston rod after insertion of the piston rod.

## High Rider Cart (P/N 800-600)



Item	Part #	Description	Quantity
1	800-280	Handle (includes items 2-5, 10, and 11)	1
2	590-508	Roll pin	2
3	590-507	Snap button	2
4	590-504	Sleeve	2
5	590-506	Washer	2
6	800-011	Spacer	2
7	710-199	Plug	2
8	800-279	Cart (includes items 7 and 9)	1
9	335-018	Plug	2
10	856-002	Washer	4
11	856-921	Screw	4
12	800-007	Axle	1
13	670-109	Wheel	2
14	870-004	Washer	2
15	800-019	Cap	2

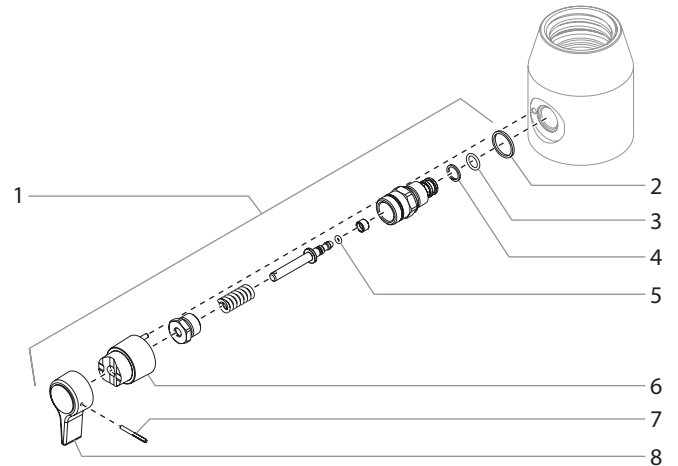
## Filter Plug Assembly (P/N 800-481)



Item	Part #	Description	Quantity
1	800-612	Filter plug	1
2	800-906	O-ring, PTFE	1
3	800-908	Plug, 3/8"	1
4	800-901	Filter housing	1
5	800-915	PRIME/SPRAY valve assembly	1
6	800-907	Plug, 1/4"	1
7	800-437	Transducer	1

**NOTE:** The filter plug assembly comes installed on the sprayer and is used when spraying textured products from a ready-mixed or powdered formulation.

## PRIME/SPRAY Valve Assembly (P/N 800-915)

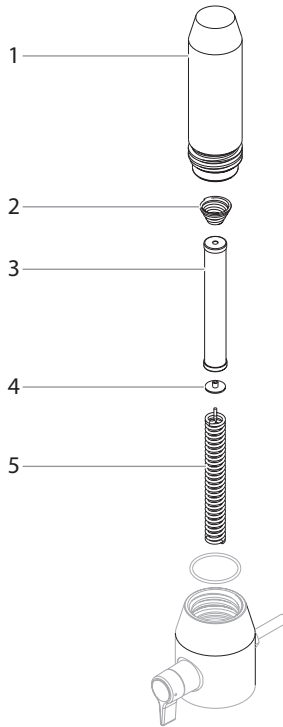


Item	Part #	Description	Quantity
1	800-915	PRIME/SPRAY valve assembly	1
2	700-537	Gasket	1
3	222-012	O-ring, PTFE	1
4	221-012	O-ring, Viton	1
5	700-721	Valve stem o-ring, Viton	1
	700-897	Valve stem o-ring, PTFE (optional)	
6	700-252	Cam base	1
7	700-759	Groove pin	1
8	700-697	Valve handle	1

**NOTE:** When using "hot" solvents, replace Viton valve stem o-ring (item 5) with optional PTFE valve stem o-ring (P/N 700-897). Install using o-ring replacement tool (P/N 700-890).

## Filter Parts

**NOTE:** The following parts are included with the unit and can be installed into the filter housing when spraying standard materials.



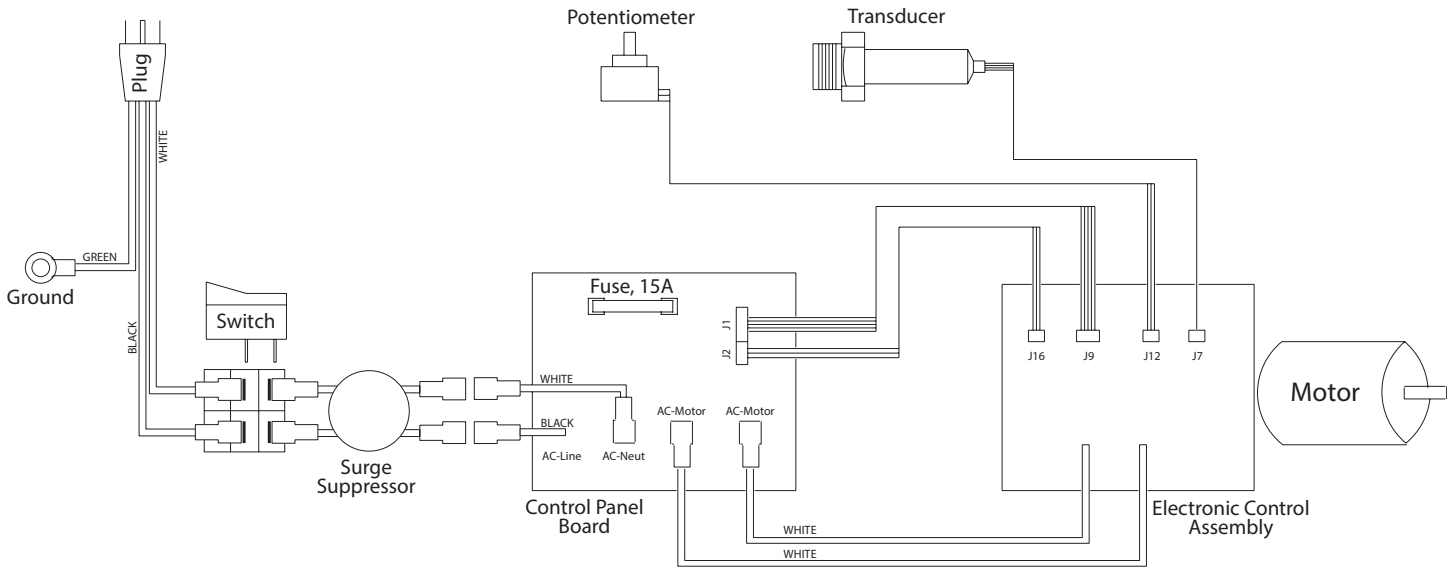
Item	Part #	Description	Quantity
1	800-705	Filter body.....	1
2	800-252	Filter spring .....	1
3	730-067	Filter, 60 mesh.....	1
4	702-251	Filter spring adapter .....	1
5	757-105	Core spring .....	1

## Labels

Part #	Description
0524939	Logo label
0524938	Front label
313-1673	Warning label (injection/explosion)
313-1847	Shock hazard label
313-2395	Infinity logo label
313-2324	X-Lock label
313-2327	Xact Digital Control System label
313-2328	Xact Instruction label
313-2430	Transducer warning label



# Electrical Schematic



**NOTE: All electrical work should be performed by an authorized service center.**

## Accessories

### Airless Tip Selection

Tips are selected by the orifice size and fan width. The proper selection is determined by the fan width required for a specific job and by the orifice size that will supply the desired amount of fluid and accomplish proper atomization.

For light viscosity fluids, smaller orifice tips generally are desired. For heavier viscosity materials, larger orifice tips are preferred. Please refer to the chart below.

**NOTE: Do not exceed the sprayer's recommended tip size.**

The following chart indicates the most common sizes and the appropriate materials to be sprayed.

Tip size	Spray Material	Filter Type
.011 - .013	Lacquers and stains	100 mesh filter
.015 - .019	Oil and latex	60 mesh filter
.021 - .026	Heavy bodied latex and blockfillers	30 mesh filter

Fan widths measuring 8" to 12" (20 to 30 cm) are preferred because they offer more control while spraying and are less likely to plug.

### Liquid Shield Plus

Cleans and protects spray systems against rust, corrosion and premature wear. Now with -25° anti-freeze protection.

Part #	Description
314-483.....	4 ounce bottle
314-482.....	1 quart bottle



### Piston Lube

Specially formulated to prevent materials from adhering to the piston rod, which becomes abrasive to the upper seals. Piston Lube will break down any material that may accumulate in the oil cup and keep it from drying.

Part #	Description
314-481.....	4 ounce bottle
314-480.....	8 ounce bottle



### LX-80<sup>II</sup> Airless Gun

- 3600 PSI
- All metal construction
- In-handle filter
- High pressure swivel

Part #	Description
580-100.....	LX-80II — 4 Finger Gun
581-085.....	LX-80II — 2 Finger Gun
580-050.....	LX-80II — 4 Finger GTH Kit
581-150.....	LX-80II — 2 Finger GTH Kit

### S-3 Stainless Steel Airless Gun

- 3900 PSI
- Stainless Steel fluid passages
- High Pressure Swivel
- In-handle filter
- 4-finger trigger pull

Part #	Description
550-250	S-3 — 4 Finger Gun

### Synergy Fine Finish Tips

- Perfect for all fine finish work
- Ideal for lacquers, stain, enamels, urethane, and clear top coats
- Increases standard tip life up to 80%
- Delivers up to a 27% finer atomization at lower pressures
- Increases transfer efficiency resulting in less overspray

Part #	Description
671-XXX	Synergy Fine Finish Tips

### WideSpray Reversible Tips

- Designed for high production applications
- Increase production up to 100%
- WideSpray will save time and make you more money

Part No.	Description
661-XXXX	WideSpray Reversible Tips

### I-Remote Universal Remote Control System

- Operates your sprayer from over 100 feet away
- Works through walls, trees and other obstacles
- Increase or decrease the pressure of the sprayer without climbing down off the ladder

Part #	Description
800-690.....	I-Remote Control System
800-691.....	I-Remote Control Only
800-692.....	I-Remote Receiver Only

### Xact Digital Control System

The Xact Digital Control System is an optional add-on that increases the functionality of the sprayer. It consists of a display and four function keys. The display shows the user menu features that enable the user to become more productive and profitable

- X-Lock Security Features (Individualized Codes)
- Pressure Reading — Set Pressure and Working Pressure
- User Preset Keys
- Total Gallons Sprayed
- Resettable Job Gallon Counter
- Total On Time and Run Time
- Resettable On Time and Run Time
- Programmable Service Time (Hour Meter)
- Advanced Diagnostics

Part #	Description
704-555.....	Xact Digital Control System with Cover

### Miscellaneous

Part #	Description
490-012.....	Hose Coupling, 1/4" x 1/4"
730-397.....	High Pressure Fl. Gauge
314-171.....	Lubriplate, 14 ounce individual
314-172.....	Lubriplate, 6 lb. can
700-1037.....	Electrostatic discharge (ESD) wrist strap

Material Safety Data Sheets (MSDS) are available on Titan's website or by calling Customer Service.

Des fiches techniques de sécurité des produits (FTSS) sont disponibles sur le site Internet de Speeflo's ou par téléphone en vous adressant au Service Client.

Las Hojas de Datos de Seguridad (Material Safety Data Sheets - MSDS) se encuentran disponibles en el sitio web de Speeflo's o llamando al Servicio al Cliente.

## Warranty • Garantie • Garantía

Titan Tool, Inc., ("Titan") warrants that at the time of delivery to the original purchaser for use ("End User"), the equipment covered by this warranty is free from defects in material and workmanship. With the exception of any special, limited, or extended warranty published by Titan, Titan's obligation under this warranty is limited to replacing or repairing without charge those parts which, to Titan's reasonable satisfaction, are shown to be defective within twelve (12) months after sale to the End User. This warranty applies only when the unit is installed and operated in accordance with the recommendations and instructions of Titan.

This warranty does not apply in the case of damage or wear caused by abrasion, corrosion or misuse, negligence, accident, faulty installation, substitution of non-Titan component parts, or tampering with the unit in a manner to impair normal operation.

Defective parts are to be returned to an authorized Titan sales/service outlet. All transportation charges, including return to the factory, if necessary, are to be borne and prepaid by the End User. Repaired or replaced equipment will be returned to the End User transportation prepaid.

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Titan Tools, inc. (« Titan ») garantit qu'au moment de la livraison à l'acheteur original (« Utilisateur »), l'appareil couvert par la présente garantie sera exempt de défauts de matériaux et de fabrication. Avec l'exception de spécial, limité, ou garantie allongée publiée par de Titan, les responsabilités de Titan en vertu de cette garantie se limitent au remplacement ou à la réparation sans frais des pièces dont on aura, à la satisfaction raisonnable de Titan, démontré la défectuosité dans un délai de douze (12) mois après la date d'achat par l'Utilisateur. Cette garantie ne s'applique que si l'appareil a été installé et utilisé conformément aux recommandations et directives de Titan.

Cette garantie ne s'applique pas dans les cas d'endommagement ou d'usage engendrés par de l'abrasion, de la corrosion, un mauvais usage, de la négligence, un accident, une installation incorrecte, un remplacement par des composants non fournis par Titan ou toute intervention non autorisée apte à nuire au fonctionnement normal de l'appareil.

Les pièces défectueuses doivent être envoyées à un centre de service/vente Titan autorisé; les frais de transport, incluant le retour à l'usine, le cas échéant, doivent être défrayés à l'avance par l'Utilisateur. Une fois remplacées ou réparées, les pièces seront renvoyées à ce dernier par transport prépayé.

AUCUNE AUTRE GARANTIE EXPLICITE N'EST DONNÉE. PAR LES PRÉSENTES, TITAN SE DÉGAGE DE TOUTE AUTRE GARANTIE IMPLICITE, INCLUANT, SANS TOUTEFOIS S'Y LIMITER, LES GARANTIES DE COMMERCIALITÉ ET D'ADAPTATION À UN USAGE PARTICULIER, DANS LES LIMITES PERMISES PAR LA LOI. LA DURÉE DES GARANTIES IMPLICITES NE POUVANT ÊTRE DÉCLINÉES SE LIMITE À LA PÉRIODE INDIQUÉE DANS LA GARANTIE EXPLICITE. LES RESPONSABILITÉS DE TITAN NE SAURAIENT EN AUCUN CAS SE CHIFFRER À UN MONTANT SUPÉRIEUR À CELUI DU PRIX D'ACHAT, ET CELLES RELATIVES AUX DOMMAGES CONSÉCUTIFS, ACCESSOIRES OU PARTICULIERS EN VERTU DE TOUTE GARANTIE SONT ÉGALEMENT DÉCLINÉES, DANS LES LIMITES PERMISES PAR LA LOI.

TITAN NE DONNE AUCUNE AUTRE GARANTIE EXPLICITE ET DÉCLINE TOUTE GARANTIE IMPLICITE DE COMMERCIALITÉ ET D'ADAPTATION À UN USAGE PARTICULIER RELATIVEMENT AUX ACCESSOIRES, À L'ÉQUIPEMENT, AUX MATÉRIAUX OU AUX COMPOSANTS VENDUS MAIS NON FABRIQUÉS PAR ELLE; CES ÉLÉMENTS (MOTEURS À ESSENCE, COMMUTATEURS, FLEXIBLES, ETC.) SONT PLUTÔT SOUMIS, LE CAS ÉCHÉANT, AUX GARANTIES DE LEUR FABRICANT. TITAN S'ENGAGE À OFFRIR UN SOUTIEN RAISONNABLE AUX UTILISATEURS QUI FERONT DES RÉCLAMATIONS RELATIVES À L'INOBSERVATION DE CES GARANTIES.

Titan Tool, Inc., ("Titan") garantiza que en el momento de la entrega al comprador original para su uso ("Usuario final"), el equipo cubierto por esta garantía está exento de defectos en material y fabricación. Con la excepción de cualquier especial, limitada, o extendido garantía publicado por Titan, la obligación de Titan en virtud de esta garantía se limita a sustituir o reparar sin cargo las piezas que; a la entera satisfacción de Titan, demuestren estar defectuosas dentro de doce (12) meses después de la venta al usuario final. Esta garantía corresponde solamente cuando la unidad se instala y funciona según las recomendaciones e instrucciones de Titan.

Esta garantía no corresponde en el caso de daños o desgaste causados por abrasión, corrosión o uso indebido, negligencia, accidente, instalación errada, sustitución de piezas con componentes que no sean Titan o alteraciones con la unidad de tal modo que se vea afectado el funcionamiento normal.

Las piezas defectuosas deben devolverse a un centro de ventas y servicio autorizado de Titan. Todos los cargos de transporte, incluso la devolución a la fábrica, si es necesario, debe pagarlos previamente el usuario final. El equipo reparado o cambiado se devolverá al usuario final con porte prepago.

NO EXISTE NINGUNA OTRA GARANTÍA EXPRESA. TITAN DESCONOCE POR LA PRESENTE TODA OTRA GARANTÍA IMPLÍCITA INCLUSIVE ENTRE OTRAS, LAS DE COMERCIALIDAD E IDONEIDAD PARA UN FIN PARTICULAR, EN LA MEDIDA QUE LO PERMITA LA LEY. LA DURACIÓN DE LAS GARANTÍAS IMPLÍCITAS QUE NO PUEDEN DESCONOCERSE SE LIMITA AL PLAZO ESPECIFICADO EN LA GARANTÍA EXPRESA. EN NINGÚN CASO EXCEDERÁ LA RESPONSABILIDAD DE TITAN EL MONTO DEL PRECIO DE COMPRA. LA RESPONSABILIDAD CIVIL POR DAÑOS Y PERJUICIOS RESULTANTES, FORTUITOS O ESPECIALES BAJO TODA GARANTÍA QUEDA EXCLUIDA EN LA MEDIDA QUE LO PERMITA LA LEY.

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