



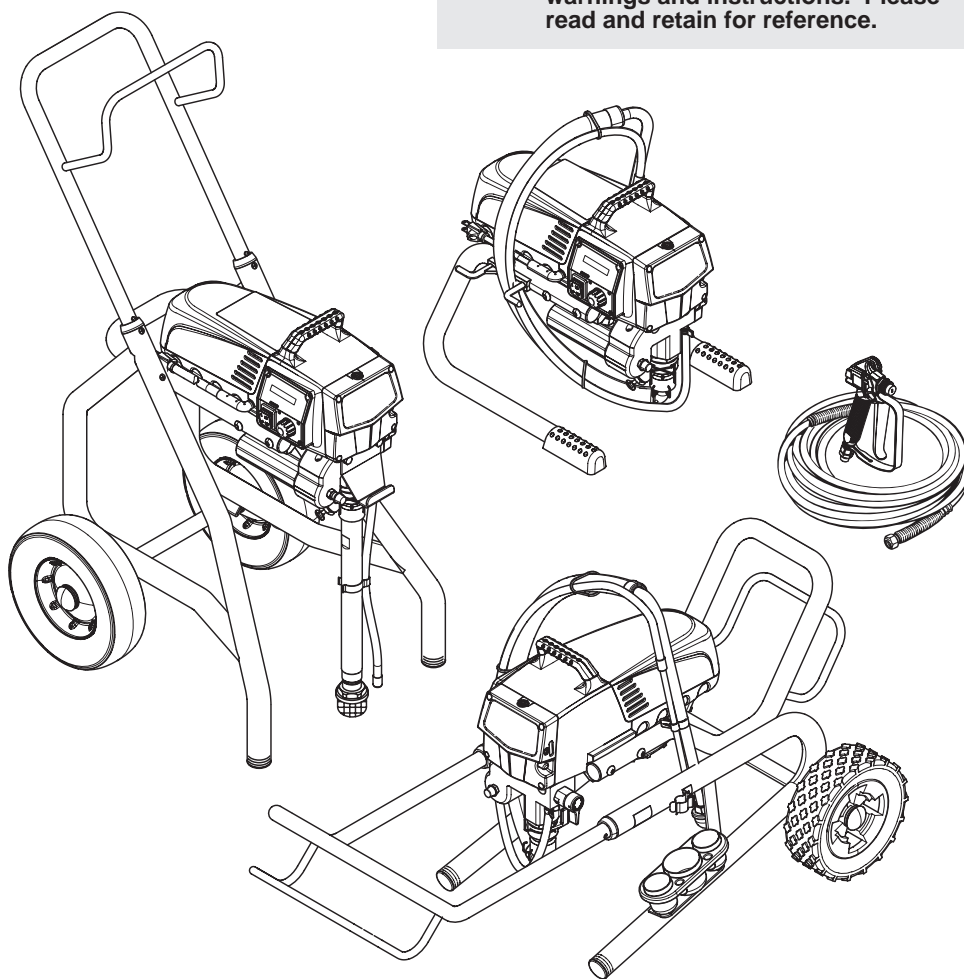
**Advanced Performance. Total Reliability.**

**Owner's Manual**  
**Notice d'utilisation**  
**Manual del Propietario**  
Do not use this equipment before  
reading this manual!

# IMPACT 640

## Airless Sprayer

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



**Model Number:**

**Skid:** 805-002

**High Rider:** 805-004

**Low Rider:** 805-005

**Anti-Theft Digital Lockout  
Security Code**

**Serial #** \_ \_ \_ \_ \_



## Important Safety Information • Read all safety information before operating the equipment. **SAVE THESE INSTRUCTIONS.**



This symbol 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.

### HAZARD: Injection injury

A high pressure paint stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation. See a physician immediately.



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

The maximum operating range of the sprayer is 3300 PSI / 22.8 MPa fluid pressure.

### PREVENTION:

- NEVER aim the gun at any part of the body.
- Do not aim the gun at, or spray any person or animal.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the pump off, and release all pressure before servicing, cleaning the tip or guard, changing tip, or leaving unattended. Pressure will not be released by turning off the motor. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure. Refer to the PRESSURE RELIEF PROCEDURE described in this manual.
- ALWAYS keep the tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- Paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use. Do not use hose to lift or pull equipment.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above 3300 PSI / 22.8 MPa. This includes spray tips, guns, extensions, and hose.
- 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 PRESSURE RELIEF PROCEDURE described in this manual.
- Verify that all connections are secure before operating the unit. Unsecured parts may eject at great force or leak a high pressure fluid stream causing severe injury.
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.

### NOTE TO PHYSICIAN:

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

### HAZARD: HAZARDOUS VAPORS

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



### PREVENTION:

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



### HAZARD: EXPLOSION OR FIRE

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



### PREVENTION:

- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors. Solvent and paint fumes can explode or ignite.
- Do not spray in a confined area.
- Avoid all ignition sources such as static electric sparks, open flames, pilot lights, electrical appliances, and hot objects. Connecting or disconnecting power cords or working light switches can make sparks. Paint or solvent flowing through the equipment is able to result in static electricity.
- Do not smoke in spray area.
- Fire extinguisher must be present and in good working order.
- Place pump at least 25 feet (7.62 meters) from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Keep area clean and free of paint or solvent containers, rags and other flammable materials.
- Use only conductive or grounded high pressure fluid hose. Gun must be grounded through hose connections.
- For electric units — power cord must be connected to a grounded circuit.
- Always flush unit into a separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.
- Follow the material and solvent manufacturer's warnings and instructions. Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- Use extreme caution when using materials with a flashpoint below 70°F (21°C). Flashpoint is the temperature that a fluid can produce enough vapors to ignite.
- Plastic can cause static sparks. Never hang plastic to enclose a spray area. Do not use plastic drop cloths when spraying flammable materials.
- Use lowest possible pressure to flush equipment.
- Do not spray onto pump assembly.





## Important Safety Information - Read all safety information before operating the equipment. SAVE THESE INSTRUCTIONS.

### HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS

Will cause property damage or severe injury.

#### PREVENTION:

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



### HAZARD: GENERAL

Can cause severe injury or property damage.

#### PREVENTION:

- Read all instructions and safety precautions before operating equipment.
- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly part 1910 of the General Standards and part 1926 of the Construction Standards should be consulted.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety requirements of the pump manufacturer.
- All hoses, fittings, and filter parts must be secured before operating spray pump. Unsecured parts can eject at great force or leak a high pressure fluid stream causing severe injury.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another grounded high-pressure hose.
- 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 spray outdoors on windy days.
- Wear clothing to keep paint off skin and hair.
- Do not operate or spray near children. Keep children away from the equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Use lowest possible pressure to flush equipment.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- For electric units — Always unplug cord from outlet before working on equipment.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not lift by cart handle when loading or unloading.

## Grounding Instructions

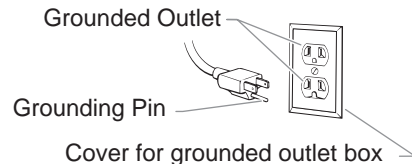
This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into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

## Specifications

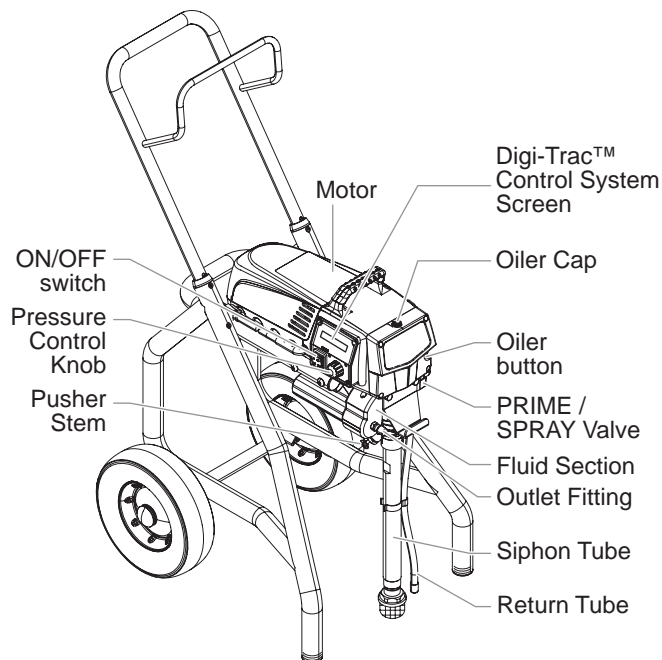
Gallons per minute (GPM).....	0.70 (2.6 LPM)
Maximum tip sizes.....	0.027"
Maximum pressure.....	3300 PSI (22.8 MPa)
Power .....	1.55 Brushless motor, 120 V, 60 Hz, 11.8 A
Weight, skid.....	36 lbs. (16.3 kg)
Weight, high rider .....	57 lbs. (25.8 kg)
Weight, low rider.....	57 lbs. (25.8 kg)
Maximum hose length .....	300' (91.4 m)
Generator requirement .....	5000 Watt (disable idle-down feature)

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## General Description

This airless sprayer is a precision power tool used for spraying many types of materials. 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 unit.

1. Ensure that the siphon tube and the return hose are attached and secure.
2. Using a wrench, attach a minimum of 50' of 1/4" 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. Make sure the ON/OFF switch is in its OFF position.
6. Remove the fill cap with a straight-slot screwdriver, or a coin. Fill the oil reservoir with one ounce of piston seal lubricant (Piston Lube). Replace oiler cap.
7. Press oiler button 2-5 times to prime the oiler. Press once for every eight hours of usage to lubricate the fluid section.

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

8. Fully depress the pusher stem to make sure the inlet ball is free.
9. Make sure the electrical service is 120V, 15 amp minimum.
10. 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.

**IMPORTANT:** After turning pump off, allow 30 seconds for the power to completely drain from capacitors.

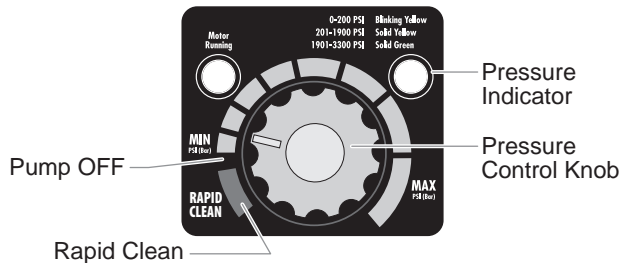


## Preparing a New Sprayer

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 siphon tube into a container of mineral spirits.
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.



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.

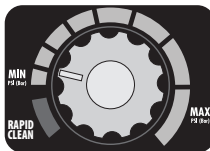
## Preparing to Paint

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

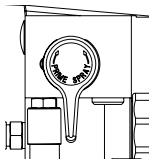
**NOTE: Incompatible fluids and paint may cause the valves to become stuck closed, which would require disassembly and cleaning of the sprayer's fluid section.**

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

1. Place the siphon tube into a container of the appropriate solvent. Examples of the appropriate solvent are water for latex paint or mineral spirits for oil-based paints.
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.
4. Move the PRIME/SPRAY valve down to the PRIME position.



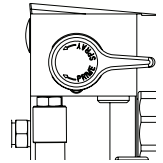
**NOTE: Hold the return hose in the waste container when moving the PRIME/SPRAY valve to PRIME in case the sprayer is pressurized.**



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.
7. 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.**

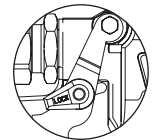
8. Move the PRIME/SPRAY valve up to the SPRAY position.
9. Turn on the sprayer.
10. Unlock the gun by turning the gun trigger lock to the unlocked position.



**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.**



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



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.**

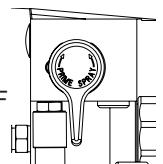
## Painting

1. Place the siphon tube into a container of paint.

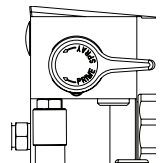
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "MIN" setting.



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 until paint is coming through the return hose into the metal waste container.
7. Turn off the sprayer by moving the ON/OFF switch to the OFF position.
8. Remove the return hose from the waste container and place it in its operating position above the container of paint.



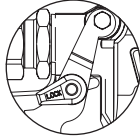
9. Move the PRIME/SPRAY valve up to the SPRAY position.
10. Turn on the sprayer.
11. Unlock the gun by turning the gun trigger lock to the unlocked position.



**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.**



12. Trigger the gun into the metal waste container until all air and solvent is flushed from the spray hose and paint is flowing freely from the gun.
13. Lock the gun by turning the gun trigger lock to the locked position.
14. Turn off the sprayer.
15. 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.

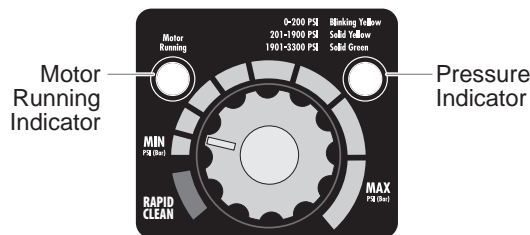
**Do not spray without the tip guard in place. Never trigger the gun unless the tip is in either the spray or the unclog position. Always engage the gun trigger lock before removing, replacing or cleaning tip.**

16. Turn on the sprayer.
17. Increase the pressure by turning the pressure control knob slowly clockwise 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.**

## 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:
  - a. **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.
  - b. **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.
  - c. **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.

## Digi-Trac™ Control System Operation

The Digi-Trac™ 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.



### Function Keys

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

#### #1/Menu Key

Pressing the #1 key scrolls through the available menu screens or performs a function described on the active menu screen.

#### #2/+ Key

Pressing the #2 key performs a function described on the active menu screen or increases a value.

#### #3/- Key

Pressing the #3 key performs a function described on the active menu screen or decrease a value.

#### #4/Select Key

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, Security Code, Prime, and RAPID CLEAN.

## Main Screen

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

SET PSI	3000
ACTUAL PSI	2950

## Volume Pumped Screen

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

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

VOLUME PUMPED	
MENU-1	SELECT-4

GALLONS	X
MENU-1	

## Job Volume Screen

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

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

JOB VOLUME	
MENU-1	SELECT-4

JOB GAL	XXXX
MENU-1	RESET-3

## Unit Serial # Screen

The Unit Serial # screen shows the sprayers serial number.

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

UNIT SERIAL #	
MENU-1	SELECT-4

SER # XXXXXXXXXX	
MENU-1	

## 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).

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

TIMERS	
MENU-1	SELECT-4

ON TIME	XXXX
RUN TIME	XXXX

## Job Timers Screen

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

To select the Job Timers screen, press the #4 key. "JOB ON" screen will appear. Press #3 to reset. Press #1 to continue to "JOB RUN" screen. Press #3 to reset. Press #1 to scroll through the remaining menu screens.

JOB TIMERS	
MENU-1	SELECT-4

JOB ON	X
MENU-1	RESET-3

JOB RUN	X
MENU-1	RESET-3

## Service Time Screen

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 since the last activation of the service timer. To select the Service Timer screen, press the #4 key.

To set the service time, press the #2 (up) and/or the #3 (down) keys to the desired time (run hours will increase/decrease in increments of 1 for each time you press a key).

When the service time interval is set and met by the run hours, the display will show a "Service Required" screen. The pump will remain functional. To return to the Main Screen, press the #1 key. Doing so will reset the "Service @" and "Run Hours" displayed on the Service Screen back to 0.

SERVICE TIME	
MENU-1	SELECT-4

SERVICE @	XX
RUN HOURS	XX

## 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.

SECURITY CODE	
MENU-1	CHANGE-2

**NOTE:** If the sprayer is new, no security code is set and the Main Screen will appear at startup. When setting a security code for the first time, the "Enter Old Code Number" screen will appear, and you will need to enter "1111".

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	XXXX

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.

ENTER NEW CODE	
NUMBER	XXXX

RE-ENTER NEW	
NUMBER	XXXX

NEW CODE NUMBER	
ACCEPTED	

If the new code is re-entered incorrectly, the display will return to the "Enter New Code Number" screen and the process will repeat.

If you forget or misplace your security code, you can call Titan customer service for assistance.

**NOTE:** To inactivate the Anti-Theft Digital Lockout 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.

PRIME
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## Rapid Clean Screen

The Rapid Clean screen appears when the pressure control knob is set at the RAPID CLEAN position and the PRIME/SPRAY valve is in the PRIME position.

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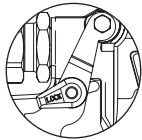
**NOTE:** If there is no action at any menu screen for 30 seconds, the display will go back to the Main Screen.

## 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.



Trigger lock in locked position.

4. Unlock the gun by turning the gun trigger lock to the unlocked position.

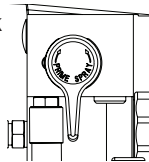
5. Hold the metal part of the gun firmly to the side of a metal container to ground the gun and avoid a build up of static electricity.



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.



## Spraying



**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.**

## Spraying Technique

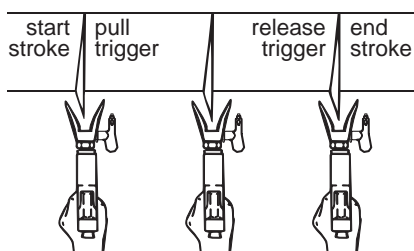
The following techniques, if followed, will assure professional painting results.

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).

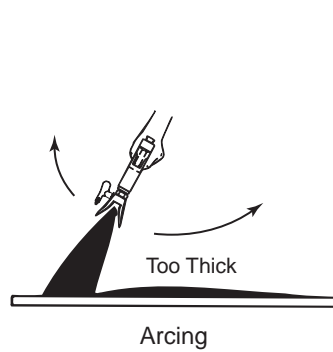
Move the gun either across or up and down the surface at a steady rate. Moving the gun at a consistent speed conserves material and provides even coverage. The correct spraying speed allows a full, wet coat of paint to be applied without runs or sags.

Holding the gun closer to the surface deposits more paint 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 paint occur, change to a spray tip with a smaller orifice. If there is an insufficient amount of paint on the surface or you desire to spray faster, a larger orifice tip should be selected.

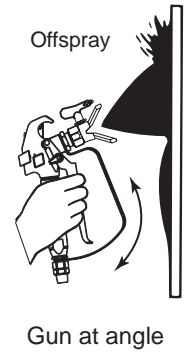
Maintain uniform spray stroke action. Spray alternately from left to right and right to left. Begin movement of the gun before the trigger is pulled.



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

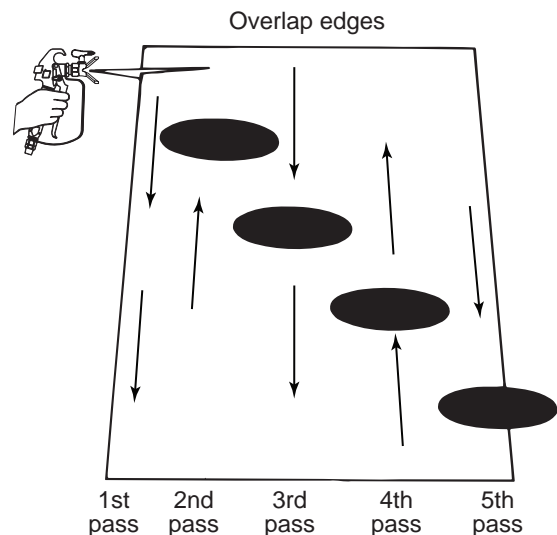


Arcing

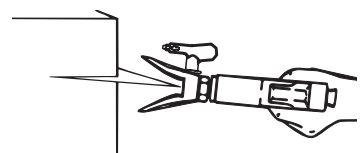


Gun at angle

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.

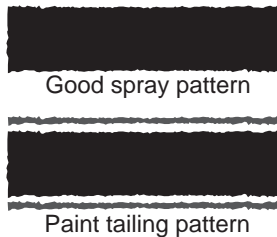
Shrubs next to houses should be tied back and covered with a canvas cloth. The cloth should be removed as soon as possible. Titan gun extensions are extremely helpful in these situations.

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. Be sure that the paint 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.
3. Move the PRIME/SPRAY valve up to its SPRAY position.
4. Turn the pressure control knob clockwise to its highest setting. The paint hose should stiffen as paint 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 paint 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.

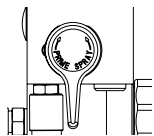
**IMPORTANT:** The sprayer, hose, and gun should be cleaned thoroughly after daily use. Failure to do so permits material to build up, seriously affecting the performance of the unit.



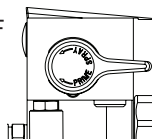
**Always spray at minimum pressure with the gun nozzle tip removed when using mineral spirits or any other solvent to clean the sprayer, hose, or gun. Static electricity buildup may result in a fire or explosion in the presence of flammable vapors.**

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 siphon tube into a container of the appropriate solvent. Examples of the appropriate solvent are water for latex paint or mineral spirits for oil-based paints.
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.



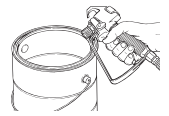
6. Set the pressure to Turbo RAPID CLEAN by turning the pressure control knob to its RAPID CLEAN position.
7. Turn on the sprayer by moving the ON/OFF switch to the ON position.
8. Allow the solvent to circulate through the unit and flush the paint out of the return hose into the metal waste container.
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.

## 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
	5/64" 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
Customer Service (Canada)	1-800-565-8665
Fax	1-800-856-8496

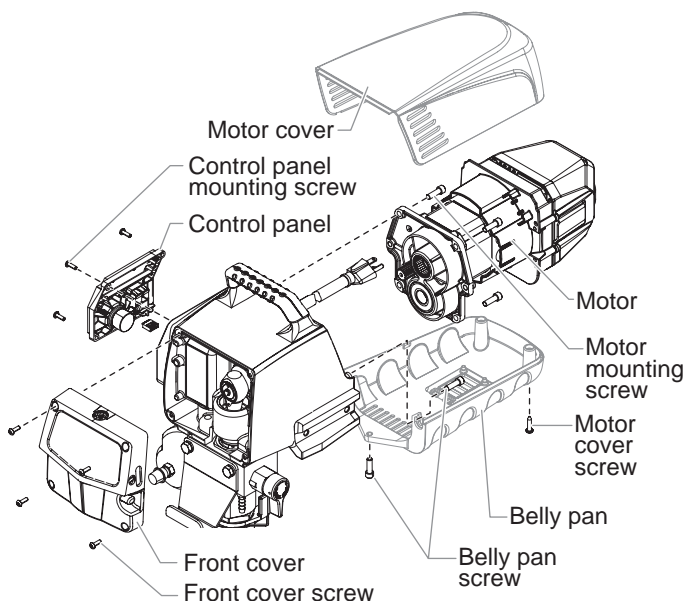
## Replacing the Motor

1. Perform the Pressure Relief Procedure and unplug the sprayer.
2. Loosen and remove the two motor cover screws. Remove the motor cover.
3. Loosen and remove the three belly pan screws. Remove the belly pan.
4. On the back of the motor, disconnect the wire coming from the potentiometer and the wire coming from the transducer. Also, disconnect the two wires coming from the control panel board (refer to the electrical schematic in the Parts List section of this manual).
5. Remove the four control panel mounting screws. Pull back the control panel for access to the control panel board.
6. At the the control panel board, disconnect the two wires coming from the motor (refer to the electrical schematic in the Parts List section of this manual).
7. Loosen and remove the four motor mounting screws.
8. Pull the motor out of the pump housing.

**NOTE:** If the motor will not dislodge from the pump housing:

- Remove the front cover plate.
- Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

9. With the motor removed, inspect the gears in the pump housing for damage or excessive wear. Replace the gears, if necessary.
10. Install the new motor into the pump housing.
11. Secure the motor with the four motor mounting screws.
12. Reconnect the wires (refer to the electrical schematic in the Parts List section of this manual).
13. Position the control panel on the pump housing and secure in position using the four control panel mounting screws.
14. Replace the belly pan. Secure with the three belly pan screws.
15. Slide the motor cover over the motor. Secure the motor cover with the two motor cover screws.



## Replacing the Gears

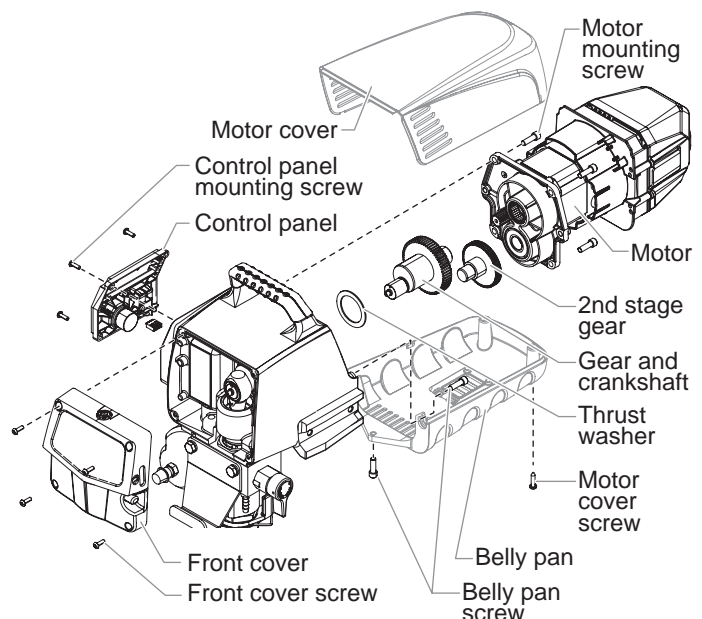
1. Perform the Pressure Relief Procedure and unplug the sprayer.
2. Loosen and remove the two motor cover screws. Remove the motor cover.
3. Loosen and remove the three belly pan screws. Remove the belly pan.
4. On the back of the motor, disconnect the wire coming from the potentiometer and the wire coming from the transducer. Also, disconnect the two wires coming from the control panel board (refer to the electrical schematic in the Parts List section of this manual).
5. Remove the four control panel mounting screws. Pull back the control panel for access to the control panel board.
6. At the the control panel board, disconnect the two wires coming from the motor (refer to the electrical schematic in the Parts List section of this manual).
7. Loosen and remove the four motor mounting screws.
8. Pull the motor out of the pump housing.

**NOTE:** If the motor will not dislodge from the pump housing:

- Remove the front cover plate.
- Using a rubber mallet, carefully tap on the front of the motor crankshaft that extends through the slider assembly.

9. Inspect the armature gear on the end of the motor for damage or excessive wear. If this gear is completely worn out, replace the entire motor.
10. Remove and inspect the 2nd stage gear for damage or excessive wear. Replace if necessary.
11. Remove and inspect the gear and crank assembly for damage or excessive wear. Replace if necessary.
12. Reassemble the pump by reversing the above steps. During reassembly, make sure the thrust washer is in place.

**NOTE:** Refill the gear box in the pump housing with five ounces of Lubriplate (P/N 314-171).



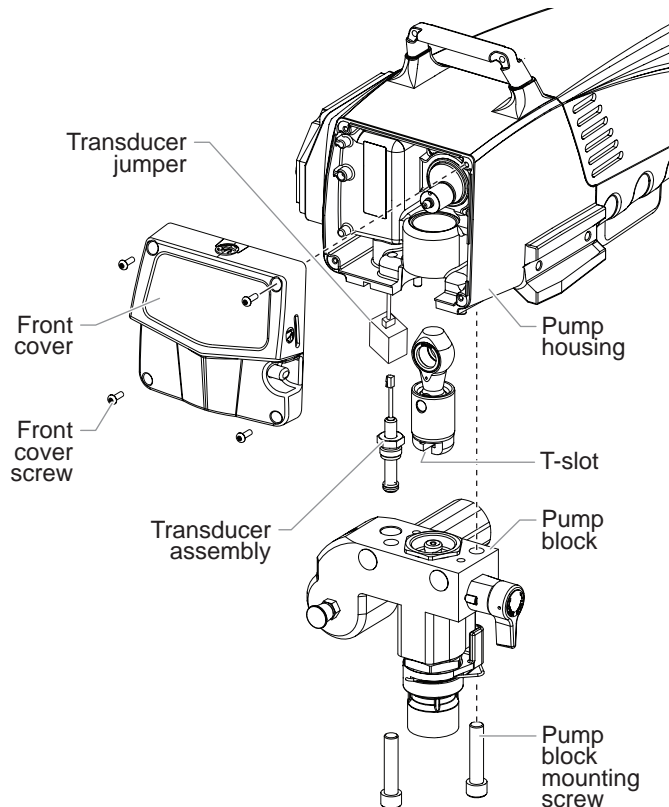
## Replacing the Transducer

1. Loosen and remove the four front cover screws. Remove the front cover.
2. Stop the sprayer at the bottom of its stroke so that the piston is in its lowest position.
3. Perform the Pressure Relief Procedure 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!**

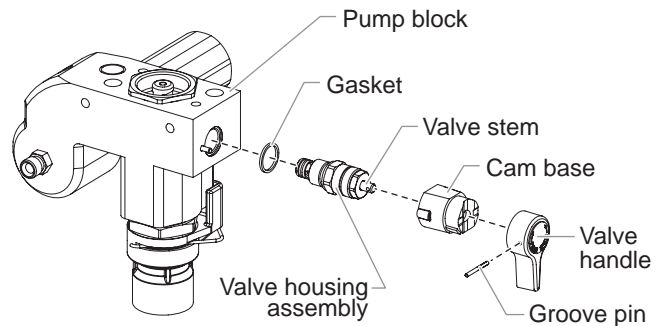
4. Tilt the pump back for easy access to the fluid section.
5. Using a 3/8" hex wrench, loosen and remove the two pump block mounting screws.
6. Pull the pump block down approximately 1/2" from the pump housing to clear the transducer.
7. Slide the pump block and piston rod forward until the piston rod is out of the T-slot on the slider assembly.
8. Carefully pull the transducer wire out of the pump housing until the connection to the transducer jumper is exposed. Unplug the wire from the transducer jumper (refer to the electrical schematic in the Parts List section of this manual).
9. Using a wrench, remove the transducer assembly from the pump block.
10. Thread the new transducer assembly into the pump block. Tighten securely with a wrench.
11. Plug the new transducer wire into the transducer jumper (refer to the electrical schematic in the Parts List section of this manual).
12. Reassemble the pump by reversing steps 1–7.



## Replacing the PRIME/SPRAY Valve

Perform the following procedure using PRIME/SPRAY valve replacement kit P/N 700-258.

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 pump block. Tighten securely with wrench.
5. Place the cam base over the valve housing assembly. Lubricate the cam base with grease and line up the cam with the pump block.
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. Stop the sprayer at the bottom of its stroke so that the piston is in its lowest position.
3. Perform the Pressure Relief Procedure 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. Unscrew the return hose assembly from the pump block. Remove the retaining clip from the bottom of the foot valve housing. Remove the siphon assembly.
5. Tilt the sprayer back for easy access to the fluid section.

## Servicing the Valves

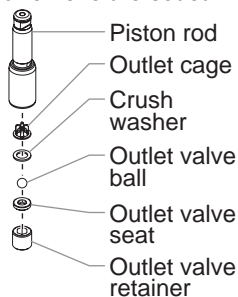
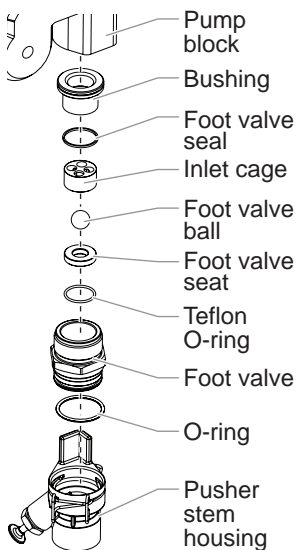
The design of the fluid section allows access to the foot valve and seat as well as the outlet valve and seat without completely disassembling the fluid section. It is possible that the valves may not seat properly because of debris stuck in the foot valve seat or outlet valve seat. Use the following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

1. Remove the pusher stem clip and slide the pusher stem housing from the foot valve housing.
2. Using a wrench, loosen and remove the foot valve housing from the pump block.
3. Clean out any debris in the foot valve housing and examine the valve housing and seat. If the seat is damaged, reverse or replace the seat.
4. Using a 5/16" hex 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 outlet valve housing and seat. If the seat is damaged, reverse or replace the seat.
6. Remove, clean, and inspect the outlet cage, crush washer, and outlet valve ball. Replace if they are worn or damaged.

**NOTE: The outlet cage always must be used with the crush washer. They are included together in the repacking kit as assembly P/N 704-642.**



7. Reassemble the valves by reversing the steps above.

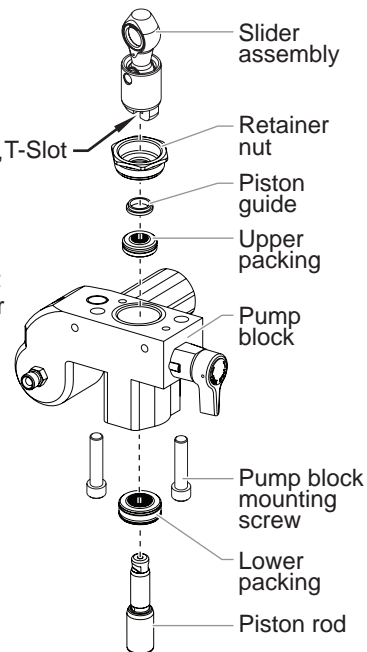
**NOTE: During reassembly of the outlet valve, apply one drop of Loctite (included in the repacking kit) to the threads of the outlet valve retainer before threading it into the piston rod. Then, torque the retainer to 144 in./lbs. (12 ft./lbs.).**

## Repacking the Fluid Section

1. Remove the foot valve assembly 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.**

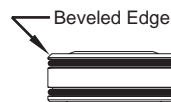
2. Using 3/8" a hex wrench, loosen and remove the two pump block mounting screws.
3. Pull the pump block down approximately 1/2" from the pump housing.
4. Slide the pump block and piston rod forward until the piston rod is out of the T-slot on the slider assembly.
5. Slide the piston rod out through the bottom of the pump block.
6. Loosen and remove the retainer nut and piston guide from the pump block.
7. Remove the upper and lower packings from the pump block.
8. Clean the pump block and install the new upper and lower packings. Refer to the illustration below for proper packing orientation.



Install upper packing with raised lip and O-ring facing down.



Install lower packing with the beveled edge facing up.



9. Inspect the piston rod for wear and replace if necessary.
10. Reassemble the outlet valve assembly into the piston rod. Tighten the outlet valve retainer with a wrench until secure.

**NOTE: Use the T-slot on the slider assembly to hold the piston rod in position while securing the outlet valve retainer.**

**IMPORTANT: Never use a wrench on the piston itself. This could cause damage to the piston and cause leakage.**

11. Insert the piston guide into the retainer nut. Thread the retainer nut into the pump block until it is hand tight.
12. Slide the piston guide tool (included in the repacking kit) over the top of the piston rod and insert the piston rod through the bottom of the pump block. Using a rubber mallet, tap the bottom of the piston rod lightly until the piston rod is in position in the pump block.



**NOTE: Coat the piston guide tool and the piston rod with grease before inserting them into the pump block.**

13. Using a wrench, tighten the retainer nut securely.
14. Slide the top of the piston rod into the T-slot on the slider assembly.
15. Position the pump block underneath the pump housing and push up until it rests against the pump housing.
16. Thread the pump block mounting screws through the pump block and into the pump housing. Tighten securely.
17. Reassemble the foot valve assembly into the pump block.
18. For High Rider cart units, thread the siphon tube into the foot valve and tighten securely. Make sure to wrap the threads on the siphon tube with Teflon tape before assembly. Replace the return hose into the hose clip on the siphon tube.
19. For Skid and Low Rider units, insert the elbow on the siphon assembly into the bottom of the foot valve housing. Push the retaining clip up into the groove inside the foot valve housing to secure the siphon assembly in position. Thread the return hose into the pump block and tighten securely.
20. Place the front cover on the pump housing and secure in position using the four front cover screws.
21. Turn on the sprayer by following the procedure in the "Operation" section of this manual and check for leaks.

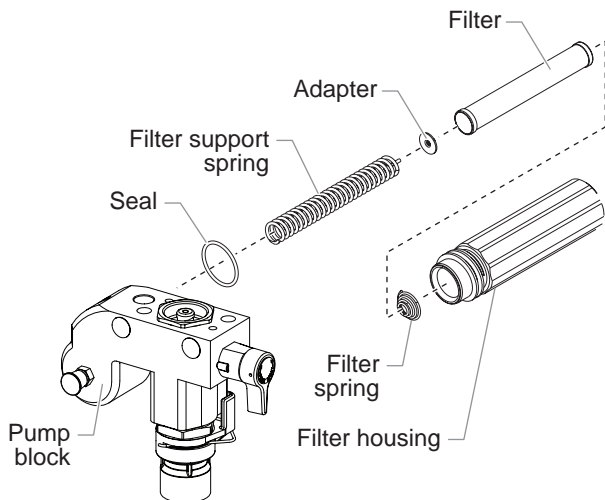
**NOTE: Repacking kit P/N 704-586 is available. For best results use all parts supplied in this kit.**

## Replacing the Filters

### Pump Filter

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

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

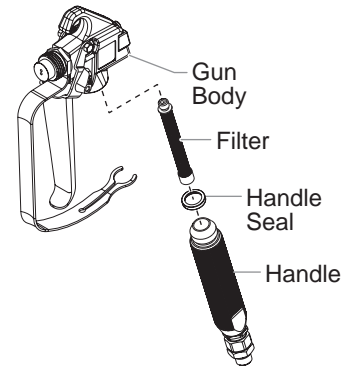


### Gun Filter

1. Move the gun trigger lock to the unlocked position.
2. Loosen and remove the handle from the gun body.
3. Turning clockwise, unscrew the filter from the gun body.

**NOTE: Left-handed threads require turning the filter clockwise to remove.**

4. Turning counterclockwise, screw the new or cleaned filter into the gun body.
5. Make sure the handle seal is in position and thread the handle into the gun body until secure.
6. Move the gun trigger lock to the locked position.



**NOTE: For more detail, part number information, and complete assembly drawings, please see the LX-80II Professional Airless Gun Owner's Manual (P/N 313-2293).**

# 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. Inlet valve is stuck.
2. The PRIME/SPRAY valve is in the SPRAY position.
3. A leak in the siphon tube/suction set.
4. The pump filter and/or inlet screen is clogged.
5. The siphon tube/suction set is clogged.

1. Insert pusher stem.
2. Rotate the PRIME/SPRAY valve clockwise to the PRIME position.
3. Check the siphon tube/suction set connection and tighten or re-tape the connection with Teflon tape.
4. Remove the pump filter element and clean. Remove the inlet screen and clean.
5. Remove the siphon tube/suction set 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. A leak in the siphon tube/suction set.
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/suction set connection and tighten or re-tape the connection with Teflon 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 packing is 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 a recess 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 braided recess 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.

## Digi-Trac™ Control System Error Messages

The following error message screens appear whenever the Digi-Trac™ 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 Transducer Screen

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 Potentiometer Screen

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

CHECK  
POTENTIOMETER

### Low Voltage Screen

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

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

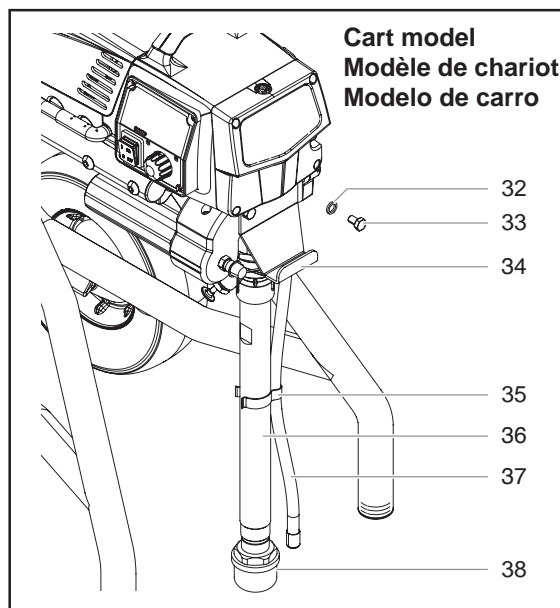
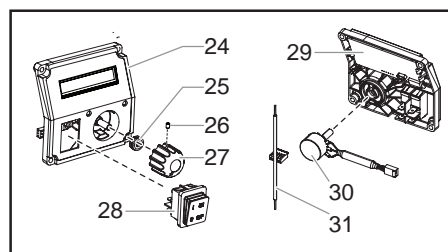
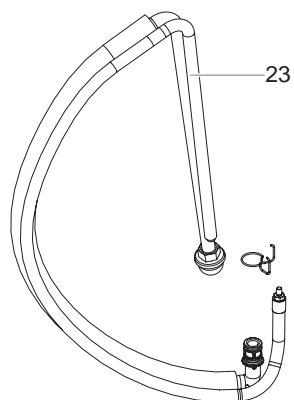
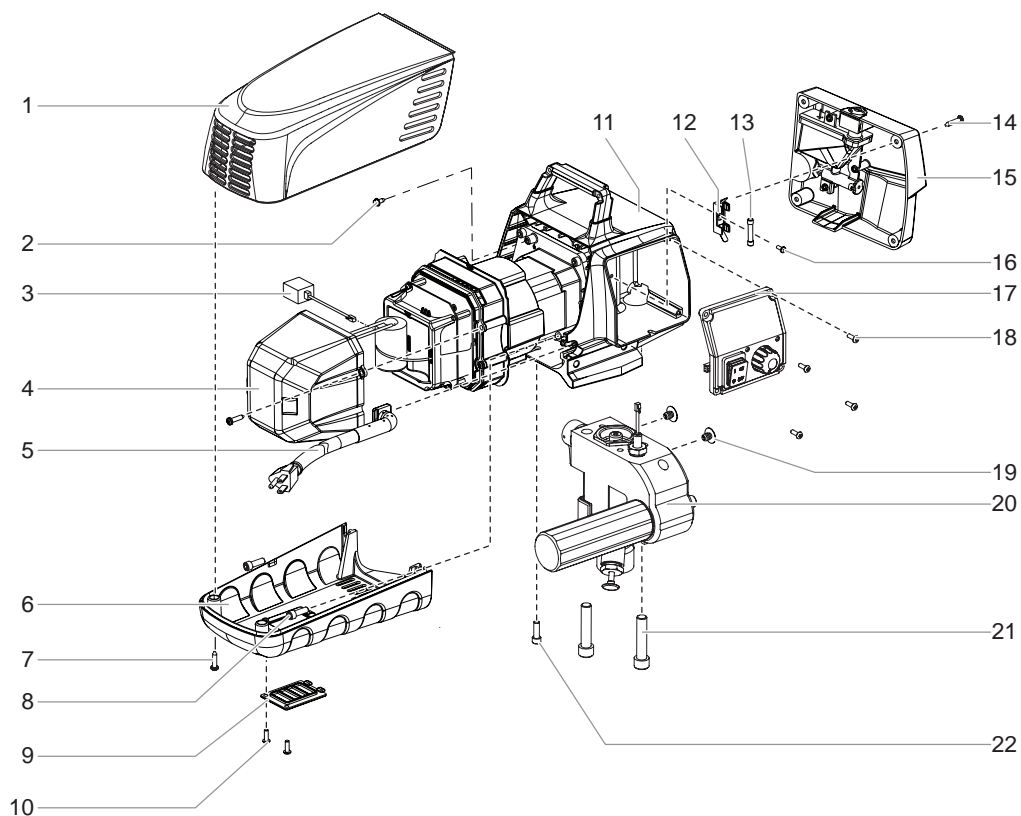
### High Mechanical Load

The High Mechanical Load 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 MECHANICAL  
LOAD

# Parts List • Liste de pièces • Lista de piezas

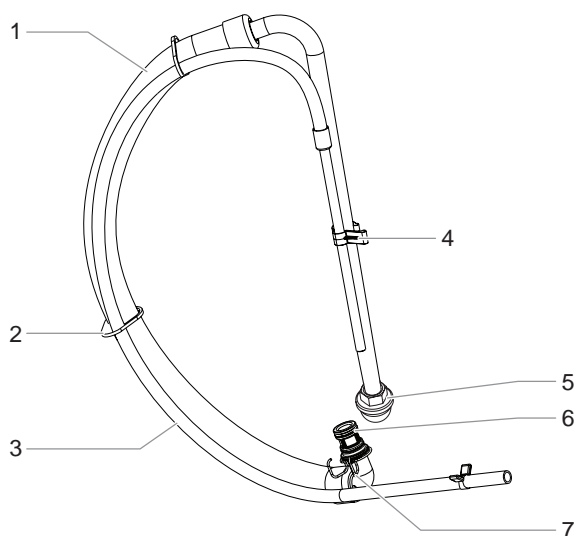
## Main Assembly • Vue d'ensemble • Ensamblaje principal



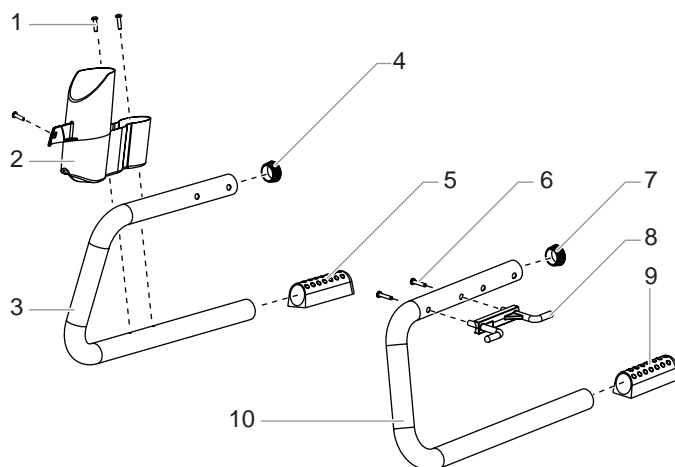


Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	805-356A	Motor shroud	Carter du moteur	Cubierta de motor	1
2	9800340	Ground screw	Vs de terre	Tornillo a tierra	1
3	704-548	Transducer jumper	Transducteur de cavaier	Transductor puente	1
4	805-462	Motor cover	Couvercle de moteur	Tapa de motor	1
5	805-363A	Power cord assembly (skid)	Ensemble de cordon d'amentation (support)	Ensamblaje de cable de amentación (soporte)	1
	805-404A	Power cord assembly (cart)	Ensemble de cordon d'amentation (chariot)	Ensamblaje de cable de amentación (carro)	1
6	805-489	Belly pan	Ventre pan	Ventre pan	1
7	9802266	Belly pan screw	Vs de ventre pan	Tornillo de ventre pan	2
8	700-681	Screw	Vs	Tornillo	2
9	805-490	Belly pan cover	Couvercle de ventre pan	Tapa de ventre pan	1
10	700-139	Belly pan screw	Vs de ventre pan	Tornillo de ventre pan	2
11	-----	Drive assembly	Boîte d'engrenages	Ensamblaje de la caja de engranajes	1
12	0522210	Fuse block	Bloc de fusible	Boque de fusible	1
13	800-929	Fuse, 15A	Fusible, 15A	Fusible, 15A	1
14	700-139	Face plate screw	Vs de couvercle	Tornillo de la cubierta frontal	4
15	805-215A	Face plate / roller assembly	Ensemble de couvercle / graisseur	Ensamblaje de cubierta frontal / lubricador	1
16	800-203	Fuse block screw	Vs de bloc de fusible	Tornillo de boque de fusible	1
17	805-225A	Control panel assembly, complete includes items 24-31)	Ensemble de panneau de contrôle, complète (comprend les articles 24-31)	Ensamblaje de panel de control, completa (incluye artículos 24-31)	1
18	700-139	Control panel screw	Vs de panneau de contrôle	Tornillo de panel de control	4
19	704-358	Pug	Capuchon	Tapa	2
20	805-207A	Fund section assembly (skid and roller)	Ensemble de section des quides (support et basse chariot)	Ensamblaje de sección de íquidos (soporte y bajo carro)	1
	805-233A	Fund section assembly (cart)	Ensemble de section des quides (chariot)	Ensamblaje de sección de íquidos (carro)	1
21	704-117	Fund section screw	Vs de section des quides	Tornillo de sección de líquidos	2
22	700-681	Screw	Vs	Tornillo	1
23	0551705	Shphon assembly (skid and roller)	Ensemble d'aspération (support et basse chariot)	Juego de succión (support y bajo carro)	1
24	805-844	Control panel cover with abe	Couvercle de panneau de contrôle avec étiquette	Tapa de panel de control con etiqueta	1
25	700-176	Nut with sea	Écrou avec joint	Tuerca con sello	1
26	704-598	Set screw	Vs	Tornillo	1
27	805-354	Control knob	Bouton de contrôle	Botón de control	1
28	9850936	Switch	Interrupteur	Interruptor	1
29	805-401	Dg-Trac™ display	Afficher de Dg-Trac™	Exponer de Dg-Trac™	1
30	800-094A	Potentiometer	Potentomètre	Potenciómetro	1
31	0522007	LED assembly	Ensemble de LED	Ensamblaje de LED	1
32	763-552	Washer	Ronde	Arandela	2
33	710-033	Pa bracket bolt	Bouon de support de seau	Perno de soporte de cubo	2
34	704-304	Pa bracket	Support de seau	Soporte de cubo	1
35	730-334	Cup	Agrafe	Sujetador	1
36	805-408	Shphon tube	Tube d'aspération	Tubo de succión	1
37	702-239	Return tube	Tube de retour	Tubo de retorno	1
38	710-046	Inlet filter	Ftre d'entrée	Filtro de entrada	1
	0551972	Surge protector (not pictured)	Protection contre les surtensions (ne sont pas représentés)	Protección de los aumentos repentinos (que no están representado)	1

**Suction Set Assembly (skid and low rider models)**  
**Ensemble d'aspiration (support et basse chariot)**  
**Ensamblaje del juego de succión (base y bajo carro)**



**Skid Assembly • Ensemble de support •**  
**Ensamblaje de la soporte**



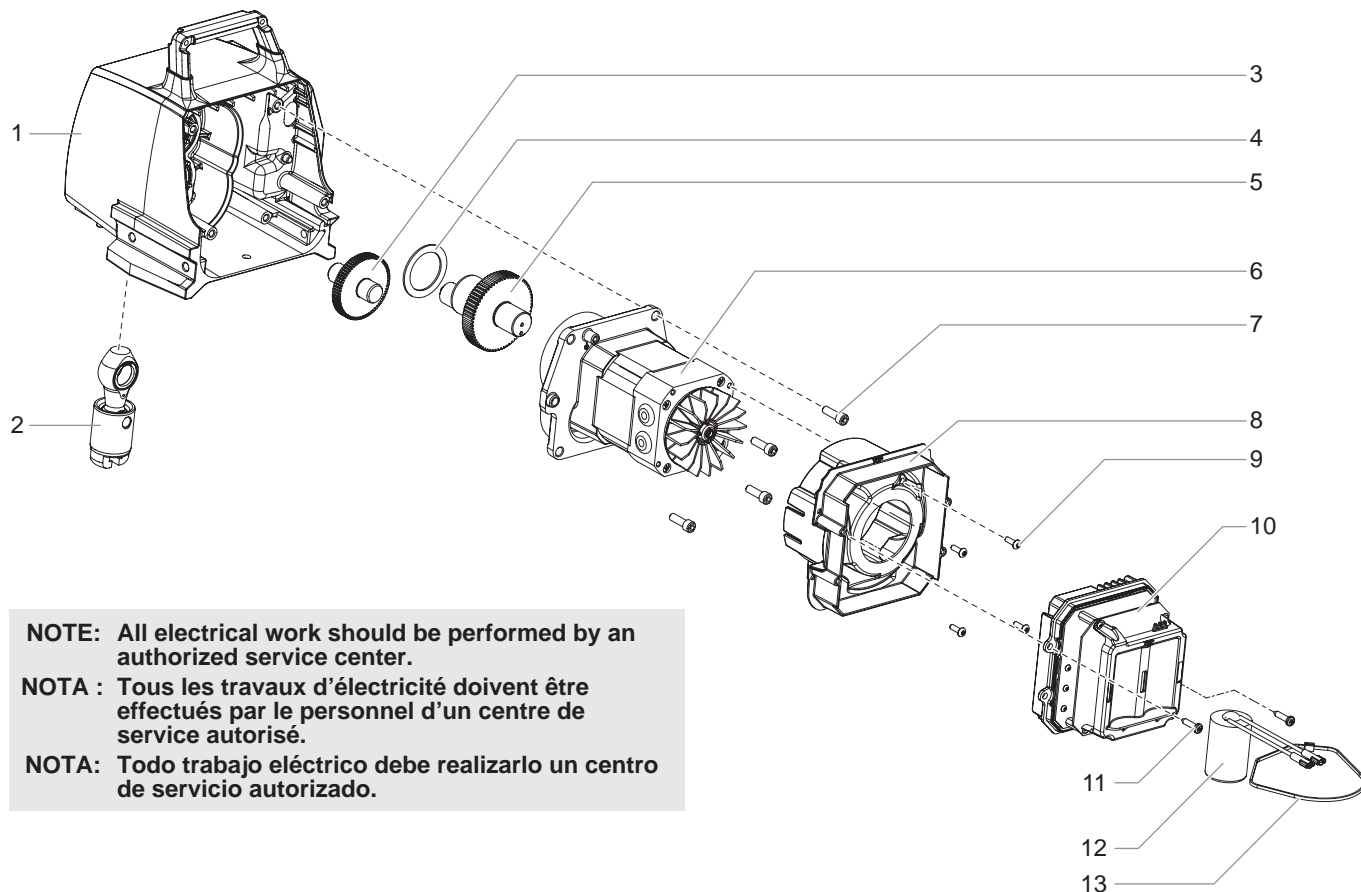
**Suction Set Assembly • Ensemble d'aspiration • Ensamblaje del juego de succión**

Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	0551705	S phon tube assembly ( nc udes tems 1-7)	Ensemb e d'asp rat on (comprend es art c es 1-7)	Ensamb aje de juego de succ ón ( nc uye art cu os 1-7)	1
2	9850638	T e wrap	Cord d'amarrage	Amarra	2
3	0551707	Return tube	Tube de retour	Tubo de retorno	1
4	0279459	C p	Agrafe	Sujetador	1
5	700-805	In et screen	Crép ne d'entrée	Ma a de entrada	1
6	9871105	O-r ng	Jo nt tor que	Junta tór ca	2
7	9822526	Reta n ng c p	Agrafe de retenue	Sujetador de retenc ón	1
	704-109	O-r ng (for hot so vents, opt ona )	Jo nt tor que pour so vants chauds (facu tat f)	Junta tór ca (para so ventes ca entes, opc ona )	

**Skid Assembly • Ensemble de support • Ensamblaje de la soporte**

Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	9805267	Dr p cup screw	V s de cuvette d'égouttage	Torn o de rec p ente de goteo	3
2	805-343A	Dr p cup	Cuvette d'égouttage	Rec p ente de goteo	1
3	805-328	Leg, r ght	Patte, dro te	Pata, derecha	1
4	0294635	P ug	F che	Tapón	1
5	805-342	Foot	P ed	P e	1
6	700-642	Cord wrap screw	V s de embob neur	Torn o de soporte para envo ver e cab e e éctr co	2
7	0294635	P ug	F che	Tapón	1
8	805-372	Cord wrap	Embob neur de cordon	Soporte para envo ver e cab e e éctr co	1
9	805-342	Foot	P ed	P e	1
10	805-327	Leg, eft	Patte, gauche	Pata, zqu erda	1
	805-213A	Left eg assembly ( nc udes tems 6-10)	Ensemb e de patte, gauche (comprend art c es 6-10)	Ensamb aje de pata, zqu erda ( nc uye art cu os 6-10)	
	805-214A	R ght eg assembly ( nc udes tems 1-5)	Ensemb e de patte, dro te (comprend art c es 1-5)	Ensamb aje de pata, derecha ( nc uye art cu os 1-5)	

## Drive Assembly • Boîte d'engrenages • Ensamblaje de la caja de engranajes

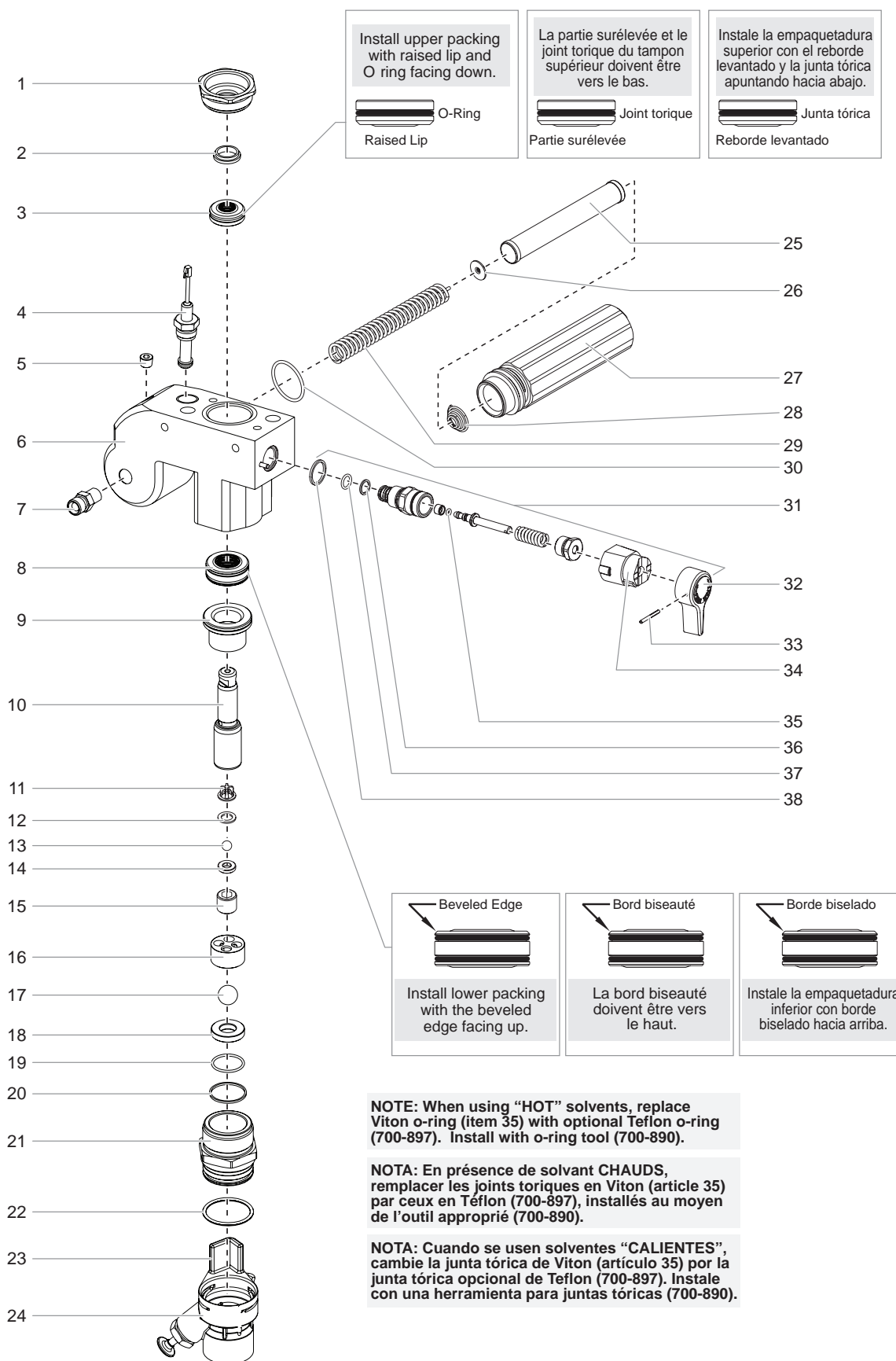


Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	805-204A	Housing assembly	Logement de la pompe	Caja de la bomba	1
2	0508208	Slider assembly	Baie	Vara conectora	1
3	704-176	2nd stage gear	Second embrague	Engranaje de 2da etapa	1
4	704-174	Thrust washer	Rondele de butée	Arandela de empuje	1
5	704-173A	Crankshaft / gear assembly	Ensemble vilebrequin/ engrenages	Ensamblaje cigüeña / engranaje	1
6	805-264A	Motor assembly	Ensemble de moteur	Ensamblaje de motor	1
7	700-681	Screw	Vs	Tornillo	4
8	805-474	Motor baffle	Joint d'étanchéité	Empaquetadura	1
9	700-139	Screw	Vs	Tornillo	4
10	805-838	Motor controller	Contrôleur de moteur	Controlador de motor	1
11	9802266	Screw	Vs	Tornillo	1
12	0522023	Capacitor	Condensateur	Condensador	1

# Fluid Section Assembly • Section de liquides • Sección de líquido

(P/N 805-207A: Skid model/Low boy • Support/Bas chariot• Soporte/Bajo carro)

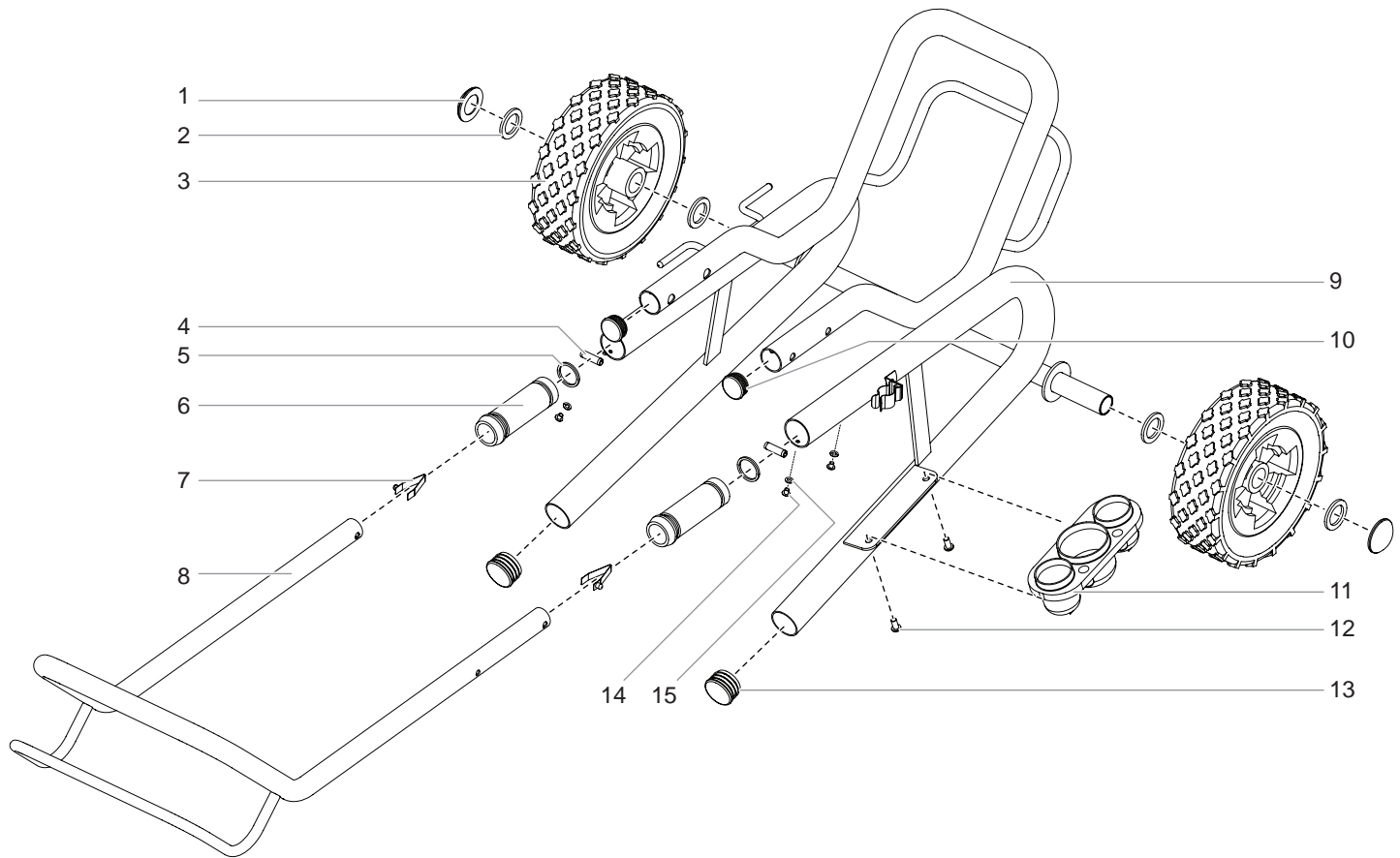
(P/N 805-233A: High-rider model • Modèle de chariot • Modelo de carro)





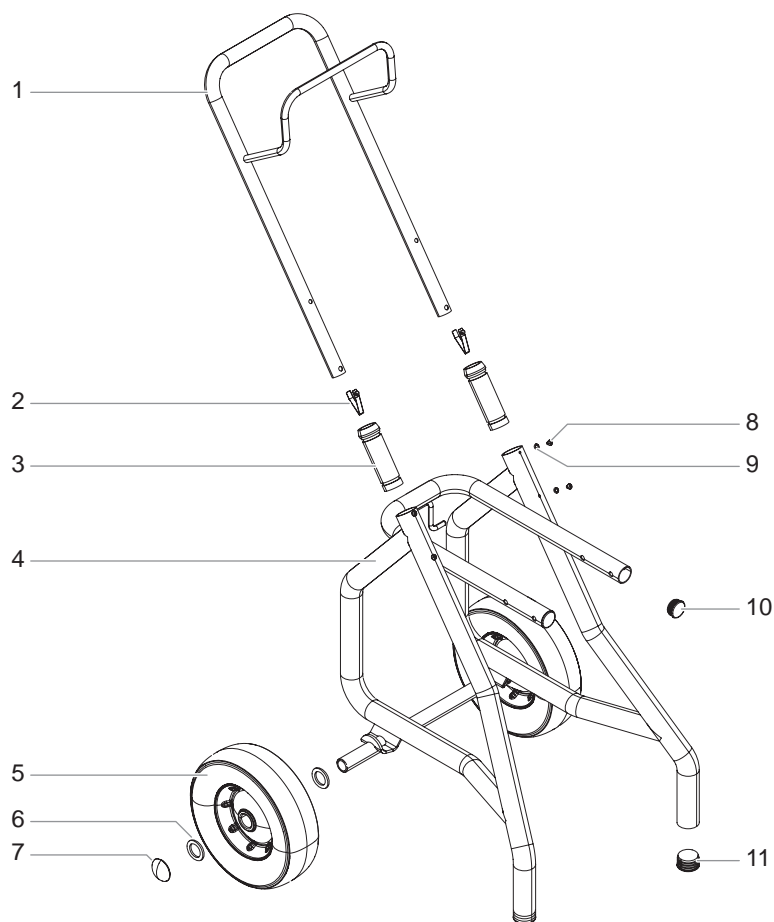
Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	730 508	Retainer	Rondelle de retenue	Retén	1
2	700 587	Piston guide	Guide piston	Guía de piston	1
3		Upper packing	Tampon graisseur supérieur	Empaquetadura superior	1
4	704 492A	Pressure sensor assembly	Ensemble de capteur de pression	Ensamblaje de sensor de presión	1
5	227 028	Pipe plug	Fiche	Tapón	1
6	805 324A	Pump block	Bloc pompe	Bloque de la bomba	1
7	227 006	Fitting	Raccord	Conector	1
8		Lower packing	Tampon graisseur inférieur	Ampaquetadura inferior	1
9	0509590	Bushing	Manchon	Buje	1
10	704 551A	Piston rod	Tige de piston	Vara del pistón	1
11	704 610	Upper cage	Cage supérieur	Jaula superior	1
12	704 612	Crush washer	Rondelle d encrasement	Arandela de aplastar	1
13	50164	Outlet valve ball	Clapet de soupape de sortie	Bola de la válvula de salida	1
14	704 558	Outlet valve seat	Siège de soupape de sortie	Asiento de la válvula de salida	1
15	13481	Outlet valve retainer	Rondelle de retenue de soupape de sortie	Retén de la válvula de salida	1
16	704 703	Lower cage	Cage inférieur	Jaula superior	1
17	762 145	Foot valve ball	Clapet de soupape de retenue	Bola de la válvula de pie	1
18	762 137	Foot valve seat	Siège de soupape de retenue	Asiento de la válvula de pie	1
19	762 058	O ring Teflon	Joint torique Teflon	Junta tórica Teflon	1
20	700 821	Foot valve seal	Joint de soupape de retenue	Junta de la válvula de pie	1
21	805 351A	Foot valve	Soupape de retenue	Válvula de pie	1
22	9871160	O ring	Joint torique	Junta tórica	1
23	805 216A	Pusher assembly stand and lowboy cart (includes item 22)	Ensemble de poussoir support et basse chariot (comprend les article 22)	Ensamblaje de vátago impulsor soporte y bajo carro (incluye artículo 22)	1
	805 234A	Pusher assembly upright cart (includes item 22)	Ensemble de poussoir chariot (comprend les article 22)	Ensamblaje de vátago impulsor carro (incluye artículo 22)	1
24	805 350	Pusher assembly clip	Agrafe de ensemble de poussoir	Agrafe de ensamblaje de vástago impulsor	1
25	730 067	Filter	Filtre	Filtro	1
26	702 251	Adapter	Adaptateur	Adaptador	1
27	704 252	Filter housing	Logement de filtre	Caja del filtro	1
28	730 083	Filter spring	Ressort du filtre	Resorte de filtro	1
29	757 105	Filter support spring	Ressort du support de filtre	Resorte del soporte del filtro	1
30	704 297	O ring	Joint torique	Junta tórica	1
31	700 258	PR ME/SPRAY valve assembly	Ensemble de soupape de PRIME/SPRAY	Ensamblaje de la válvula de PR ME/SPRAY	1
32	700 697	Valve handle	Manette de soupape	Mango de la válvula	1
33	700 759	Groove pin	Goupille	Pasador de surco	1
34	700 252	Cam base	Base à came	Base de leva	1
35	700 721	O ring Viton	Joint torique Viton	Junta tórica Viton	1
	700 897	O ring Teflon (optional)	Joint torique Téflon (facultatif)	Junta tórica Teflon (opcional)	1
36	222 012	O ring Teflon	Joint torique Teflon	Junta tórica Teflon	1
37	221 012	O ring Viton	Joint torique Viton	Junta tórica Viton	1
38	700 537	Gasket	Joint d étanchéité	Empaquetadura	1
	704 552A	Piston assembly (includes items 10 15)	Ensemble de piston (comprend les articles 10 15)	Ensamblaje del pistón (incluye artículos 10 15)	
	805 845	Outlet valve kit (includes items 11 14 and 20)	Trousse de soupape de sortie (comprend les articles 11 14 et 20)	Juego de válvula de salida (incluye artículos 11 14 y 20)	
	805 846	Outlet valve kit (includes items 16 20)	Trousse de soupape d entrée (comprend les articles 16 20)	Juego de válvula de entrada (incluye artículos 16 20)	
	704 586	Repacking kit (includes items 2 3 8 11 13 17 and 19 20 Also included are packing grease P/N 700 203 and piston guide tool P/N 700 793 )	Trousse de tampon graisseurs (comprend les articles 2-3, 8, 11-13, 17, et 19-20. Sont également inclus les lubrifiants de tampon graisseurs P/N 700-203 et outil de piston de guide P/N 700-793.)	Juego de empaquetaduras (incluye artículos 2 3 8 11 13 17 y 19 20 También de incluyen la lubricador de empaquetaduras P/N 700 203 et herramienta de guía del pistón P/N 700 793 )	

**Low rider Assembly • Bas chariot • Ensamblaje del bajo carro**  
**(P/N 0558392)**



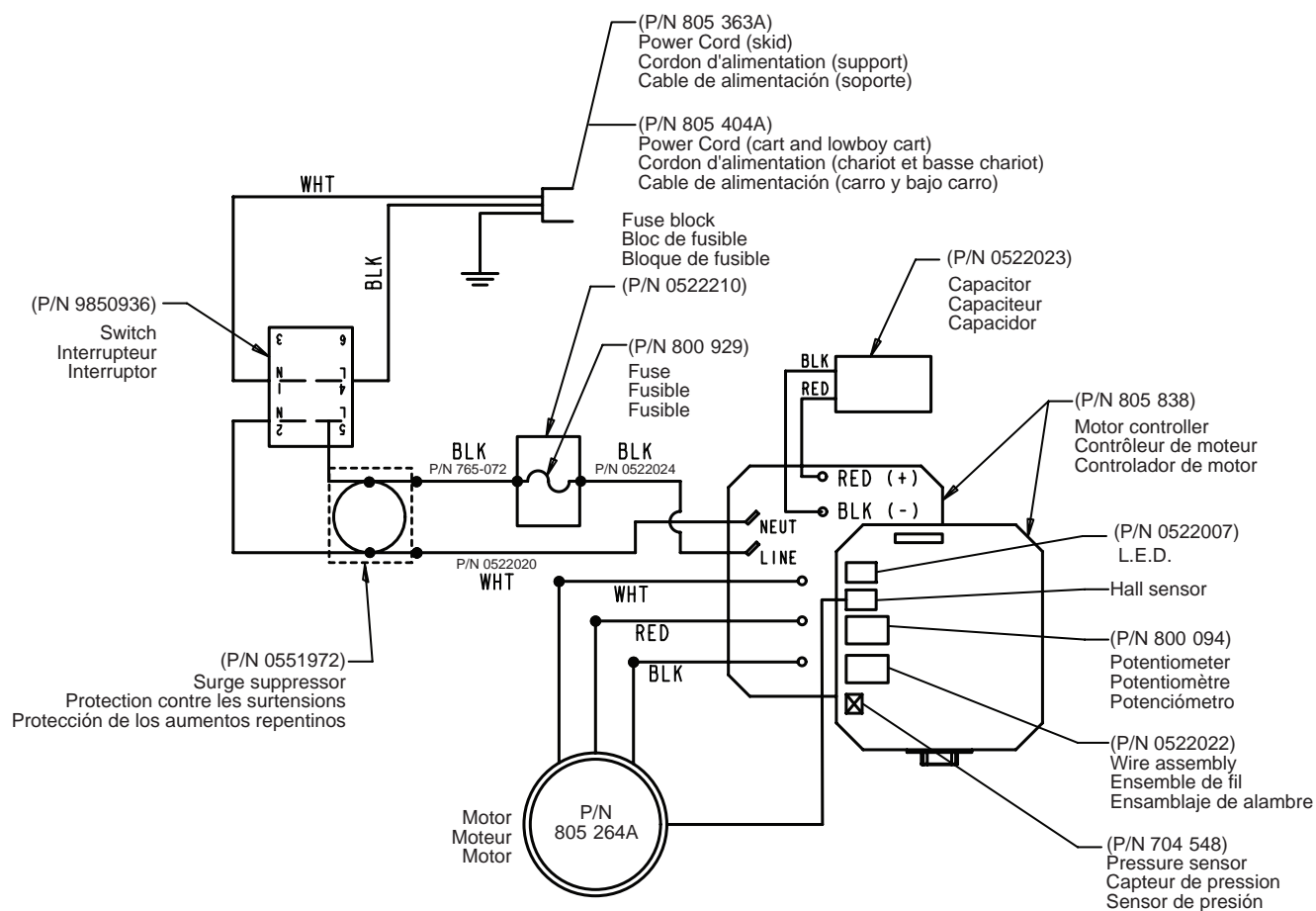
Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	9890104	Axle cap	Chapeau	Tapa	2
2	0294534	Wheel spacer	Espaceur de roue	Separador de rueda	4
3	0270394	Wheel	Roue	Rueda	2
4	590-508	Roller pin	Goupille roueau	Pasador de rolo	2
5	590-506	Handle washer	Rondele de manche	Arandela de mango	2
6	590-504	Handle sleeve	Manche	Manga de asa	2
7	9841504	Spring button	Bouton d'encenchement	Botón, a presión	2
8	704-309	Handle	Pognée	Mango	1
9	0558463	Cart component	Chariot	Carro	1
10	0294635	End cap	Chapeau	Tapa	2
11	700-1043	Drain cup	Cuvette d'égouttage	Recipiente de goteo	1
12	9805230	Drain cup screw	Viss de cuvette d'égouttage	Tornillo de recipiente de goteo	2
13	9885571	Plug	Fiche	Tapón	2
14	856-921	Screw	Viss	Tornillo	4
15	856-002	Lock washer	Rondele de sécurité	Arandela de seguridad	4

**High Rider Assembly • Chariot • Carro**  
**(P/N 805-282A)**



Item Article Artículo	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Quantity Quantité Cantidad
1	805-278	Handle	Poignée	Mango	1
2	9841504	Spring button	Bouton d'encenchement	Botón, a presión	2
3	590-504	Handle sleeve	Manche	Manga de asa	2
4	805-281	Cart we dment	Char ot	Carro	1
5	0278373	Wheel	Roue	Rueda	2
6	0294534	Wheel spacer	Espaceur de roue	Separador de rueda	4
7	9890104	Axle cap	Chapeau	Tapa	2
8	856-921	Screw	Vs	Tornillo	4
9	856-002	Washer	Ronde e	Arandela	4
10	0294635	Plug	Capuchon	Tapa	2
11	9885571	Plug	Capuchon	Tapa	2

Electrical Schematic • Schéma de raccordement électrique • Esquema eléctrico



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

**NOTA :** Tous les travaux d'électricité doivent être effectués par le personnel d'un centre de service autorisé.

**NOTA:** Todo trabajo eléctrico debe realizarlo un centro de servicio autorizado.

Labels • Étiquettes • Etiquetas

Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción
805-808	Front cover abe	Étquette du couverc e avant	Et queta de a cub erta de antera
805-807	Motor cover abe	Étquette du carter de moteur	Et queta de a cub erta de motor
805-818	Warn ng abe	Et queta de a cub erta de motor	Et queta de advertenc a
805-844	Contro pane cover w th abe	Couverc e de panneau de contrò e avec étquette	Tapa de pane de contro con et queta



## 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
---------	---------------------



### Miscellaneous

Part #	Description
--------	-------------

490-012	.....Hose Coupling, 1/4" x 1/4"
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0508239	.....High Pressure Fl. Gauge
---------	------------------------------

314-171	.....Lubriplate, 14 ounce individual
---------	--------------------------------------

9870307	.....Lubriplate, 6 lb. can
---------	----------------------------

## Accessoires

### Gamme d'embouts à dépression

On choisit les embouts en fonction de la grosseur de leur orifice (selon la quantité de produit qu'on veut étendre et le degré d'atomisation requis) et de la largeur du ventilateur, selon les travaux exigés.

En présence de liquides moins visqueux, on recommande généralement les embouts à orifice plus petit, tandis que pour les produits plus épais, on préférera des embouts à plus gros orifice. Se reporter au tableau ci-dessous.

**NOTA : Ne pas choisir un embout plus gros que celui recommandé pour le vaporisateur.**

Le tableau suivant indique quels embouts utiliser selon le produit à vaporiser.

Grosseur d'embout	Produit utilisé	Type de filtre
.011 .013	Laques et teintures	100 mailles
.015 .019	Peintures à l'huile ou au latex	60 mailles
.021 .026	Peintures au latex épaisses ou matériaux de remplissage	30 mailles

On préférera les ventilateurs d'une largeur de 20 à 30 cm (8 à 12 po) parce qu'ils augmentent la maîtrise de l'utilisateur et risquent moins de s'obstruer.

### Liquid Shield Plus

Nettoie et protège les systèmes de vaporisation de la rouille, de la corrosion et de l'usure prématurée. Maintenant avec la protection d'antigel de -25°.

N° de pièce	Description
-------------	-------------

314-483	Bouteille de 4 oz
---------	-------------------

314-482	Bouteille de 1 qt.
---------	--------------------



### Piston Lube

Spécialement formulé pour empêcher les produits d'adhérer à la tige des pistons, ce qui tend à endommager les joints supérieurs. Le Piston Lube décompose tous les matériaux qui risquent de s'accumuler dans la cuvette d'égouttage et les empêchent de sécher.

N° de pièce	Description
-------------	-------------

314-481	Bouteille de 4 oz
---------	-------------------

314-480	Bouteille de 8 oz
---------	-------------------



### Divers

N° de pièce	Description
-------------	-------------

490-012	Raccord de flexible (0,6 cm <sup>2</sup> [1/4 po <sup>2</sup> ])
---------	--

0508239	Indicateur haute pression (liquides)
---------	--------------------------------------

314-171	Lubriplate, contenant d'environ 400 g (14 oz)
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9870307	Lubriplate, contenant d'environ 3 kg (6 lb)
---------	---

## Warranty

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.

THERE IS NO OTHER EXPRESS WARRANTY. TITAN HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT PERMITTED BY LAW. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD SPECIFIED IN THE EXPRESS WARRANTY. IN NO CASE SHALL TITAN LIABILITY EXCEED THE AMOUNT OF THE PURCHASE PRICE. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED TO THE EXTENT PERMITTED BY LAW.

TITAN MAKES NO WARRANTY AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY TITAN. THOSE ITEMS SOLD, BUT NOT MANUFACTURED BY TITAN (SUCH AS GAS ENGINES, SWITCHES, HOSES, ETC.) ARE SUBJECT TO THE WARRANTY, IF ANY, OF THEIR MANUFACTURER. TITAN WILL PROVIDE THE PURCHASER WITH REASONABLE ASSISTANCE IN MAKING ANY CLAIM FOR BREACH OF THESE WARRANTIES.

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

## Patents

These products are covered by one or more of the following U.S. patents:

6,031,352	5,848,566	5,769,321	5,725,364	5,671,656	5,435,697	5,228,842
5,346,037	5,252,210	5,217,238	5,192,425	4,908,538	4,768,929	4,744,571
D384,676	6,179,222	5,934,883	4,723,892			



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