

### Professional Airless Gun

## Safety Precautions

### **⚠ WARNING**

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

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

**The maximum operating range of the gun is 3600 PSI / 25 MPa fluid pressure.**

#### PREVENTION:

- NEVER aim the gun at any part of the body.
- 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 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 must be turned to PRIME to relieve the pressure. Refer to the PRESSURE RELIEF PROCEDURE described in the pump manual.
- ALWAYS keep the tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- The paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use.
- NEVER use a spray gun without a trigger lock and trigger guard in place and in good working order.
- All accessories must be rated at or above the maximum operating pressure range of the airless sprayer. This includes spray tips, guns, extensions, and hose.

#### NOTE TO PHYSICIAN:

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

**HAZARD: EXPLOSION OR FIRE — Solvent and paint fumes can explode or ignite. Severe injury and/or property damage can occur.**

#### PREVENTION:

- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors.
- Avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords or working light switches.
- Do not smoke in spray area.
- Fire extinguisher must be present and in good working order.
- Place pump at least 25 feet (7.6 m) 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.

- Use only conductive or grounded high pressure fluid hose. Gun must be grounded through hose connections.
- Power cord must be connected to a grounded circuit.
- Always flush unit into a separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.
- Follow the material and solvent manufacturer's warnings and instructions.
- 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.

**HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS — will cause severe injury or property damage.**

#### 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: 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: GENERAL — Can cause severe injury or property damage.**

#### PREVENTION:

- Read all instructions and safety precautions before operating equipment.
- Always disconnect the motor from the power supply before working on the 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 devices of the pump manufacturer.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another grounded high-pressure hose.
- All hoses, swivels, guns, and accessories must be pressure rated at or above the maximum operating pressure range of the airless sprayer.
- Do not spray outdoors on windy days.
- Wear clothing to keep paint off skin and hair.

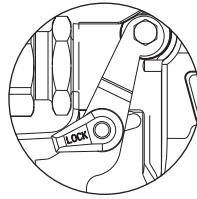
## Setup

### ⚠ WARNING

Never attempt to assemble, change, or clean the gun, tip, or tip guard without first relieving pressure from the spray system. Follow the "Pressure Relief Procedure" in the sprayer's Owner's Manual.

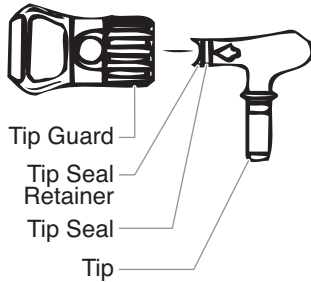
### ⚠ WARNING

Always use a tip safety guard for added protection against injection. Beware that the guard alone will not prevent injection. Never cut off tip guard! Always engage gun trigger lock when the gun is not in use. Before servicing equipment, consult Owner's Manuals and follow all warnings.



Trigger lock in locked position.

1. Set up the sprayer. Refer to the instructions in the sprayer's Owner's Manual.
2. Attach a grounded, airless spray hose to the material inlet on the gun. Using two wrenches (one on the gun and one on the hose), tighten securely.
3. With the tip and tip guard off the gun, start the sprayer. Flush and prepare the spray system according to the sprayer's Owner's Manual. Inspect the spray system to make sure that all fittings are secure and that there are no leaks.
4. Perform the "Pressure Relief Procedure" described in the sprayer's Owner's Manual.
5. Using the tip handle, insert the tip seal retainer and tip seal into the back of the tip guard. Press in for final adjustment.
6. Insert the tip into the slot on the tip guard.
7. Thread the tip guard onto the gun. Position the tip guard in the desired spraying position, then tighten securely by hand.



**NOTE:** The arrow on the tip handle should be pointing in the forward direction for spraying.

## Operation

1. Make sure the arrow on the tip handle is pointing in the forward direction for spraying.
2. Start the sprayer. Refer to the instructions in the sprayer's Owner's Manual.
3. Adjust the fluid pressure on the sprayer until the spray is completely atomized. Always spray at the lowest pressure necessary to get the desired results.

**NOTE:** The spray tip determines the size of spray pattern and coverage. When more coverage is needed, use a larger tip instead of increasing fluid pressure.

4. To clear a clogged tip:
  - a. Rotate the tip 180° so that the arrow on the tip handle is pointing opposite the spray direction.
  - b. Trigger the gun once so that the pressure can blow the clog out.

### ⚠ CAUTION

Never pull the trigger more than once at time with the tip in the reverse position.

- c. Continue this procedure until the tip is clear of the clog.

## Changing a Tip

Tips can be removed and replaced easily without disassembling the gun.

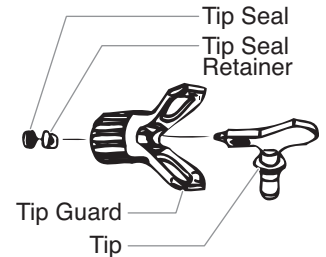
### ⚠ WARNING

Never attempt to change or clean the tip or tip guard without first performing the "Pressure Relief Procedure."

1. Perform the "Pressure Relief Procedure" described in the sprayer's Owner's Manual.
2. Remove the tip from the slot on the tip guard.
3. Insert the new tip into the slot on the tip guard. The arrow on the tip handle should be pointing in the forward direction for spraying.

## Removing the Tip Seal and Tip Seal Retainer

1. Remove the tip from the tip guard.
2. Insert the tip handle through the front of the tip guard.
3. Push the tip seal and tip seal retainer out through the back of the tip guard.



## Identifying Tip Sizes

To identify tip sizes, use the following formula. A "517" tip size will be used in this example.

The first digit multiplied by two represents the size of the spray pattern when spraying 12" away from the work surface:

$$5 \times 2 = 10" \text{ spray pattern}$$

The second two digits represent the diameter of the orifice on the tip:

$$17 = .017" \text{ orifice}$$

**NOTE:** Worn spray tips will adversely affect the spray pattern and result in reduced production, poor finish, and wasted material. Replace worn tips immediately.

## Cleanup

Maintaining a clean gun is important to ensure trouble-free operation. Flush the gun after each use and store in a dry location. Do not leave the gun or any of its parts in water or solvents.

### ⚠ WARNING

**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.

### ⚠ CAUTION

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

### ⚠ WARNING

Always spray at minimum pressure with the tip and tip guard 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. Hold the gun firmly against a metal container while flushing.



# Maintenance

**⚠ WARNING**

Follow all safety precautions as described in the Safety Precautions section of this manual before proceeding.

## Replacing/Serviceing the Seal Assembly

If your spray gun leaks or spits at the tip when you release the trigger, the needle or seat is worn, damaged, or dirty and must be replaced or cleaned. Refer to the Parts List section in this manual for part identification.

**⚠ WARNING**

Never attempt to perform maintenance on the spray gun without first performing the "Pressure Relief Procedure."

1. Disconnect the spray hose from the gun.
2. Remove the tip and tip guard.
3. With the trigger depressed, remove the diffuser from the front of the gun.
4. Remove the reversible carbide seat from the diffuser by gently tapping the diffuser on a hard, flat surface until the seat drops out.
5. Using a small flat-blade screwdriver, remove the gasket from the diffuser.
6. Using a 3/16" socket wrench, remove the ball valve assembly from the seal assembly.
7. Install the new ball valve assembly.
8. Reverse the carbide seat and place it on the ball valve assembly in the retaining nut housing.
9. Place the gasket around the carbide seat.
10. With the trigger depressed, thread the diffuser onto the retaining nut housing. Tighten with a wrench.

## Serviceing the Needle Assembly

1. Perform steps 1–6 of the "Replacing/Serviceing the Seal Assembly."
2. Loosen and remove the lock nut, rear housing, and retractor pins from the back of the gun head.
3. Remove the seal assembly from the gun head by gently tapping on the back of the seal assembly.
4. Soak the parts in the appropriate solvent and wipe clean.
5. Inspect the parts for wear and replace, if necessary, during reassembly.

**NOTE: Apply lithium grease to all packings and moving parts before reassembling.**

6. Reverse steps 1–3 to reassemble.

## Replacing/Removing the Filter

1. Pull down on the bottom of the trigger guard and swing it away from the handle.
2. Slide off the handle and unscrew the handle tube from the gun head.
3. Unscrew the filter from the gun head. If the filter breaks off during removal, use a small wood screw to remove remnants from the gun head.

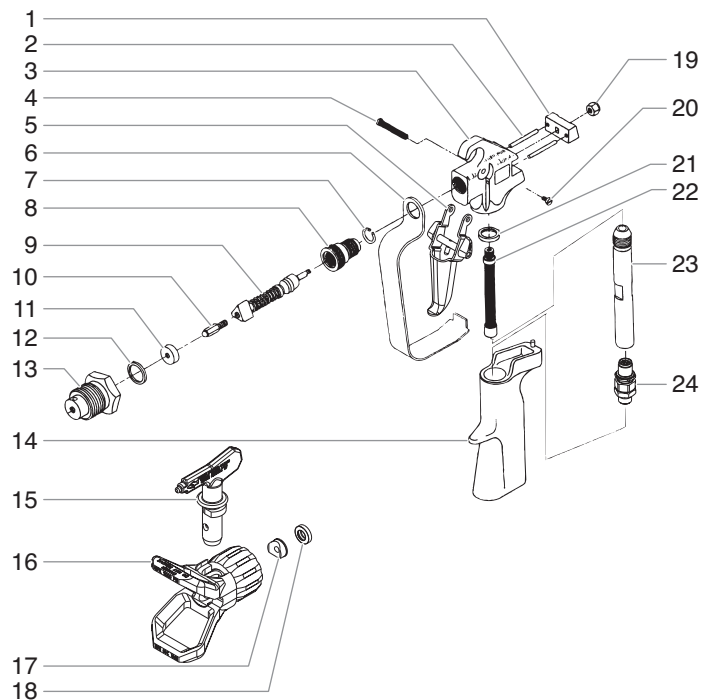
**NOTE: The filter has left-handed threads. Turn the filter clockwise to remove.**

4. Screw the new or cleaned filter counterclockwise into the gun head.
5. Slide the handle tube over the filter and screw it into the gun head.
6. Slide the handle over the handle tube and reattach it to the gun head.
7. Secure the trigger guard back in position on the bottom of the handle.

## Filter Chart

Part Number	Application	Filter Type	Color of Filter Body
500-200-15	Synthetic resin, enamels, clean varnishes, stains azures	Extrafine	red
500-200-10	Base coat enamels, primer enamels, fillers, marking paints, textured enamels	Fine	yellow
500-200-06	Emulsions, latex paints, acrylic paints	Medium	white
500-200-03	Filler paints, large area surfaces	Coarse	green

## Parts List



Item	Part #	Description	Quantity
1	580-003	Rear housing	1
2	580-025	Retractor pin	2
3	580-521	Gun head	1
4	580-512	Trigger screw, long	1
5	581-078	Trigger assembly	1
6	580-023	Trigger guard	1
7	584-008	Retaining ring	1
8	584-003	Retaining nut housing	1
9	584-024	Seal assembly	1
10	594-007	Ball valve assembly	1
11	594-033	Carbide seat (reversible)	1
12	594-008	Gasket	1
13	594-030	Diffuser	1
14	580-544	Handle	1
15	661-517	Tip assembly, SC6	1
16	661-012	Tip guard	1
17	651-040	Tip seal retainer	1
18	651-020	Tip seal	1
19	226-001	Lock nut	1
20	580-513	Trigger screw, short	1
21	560-038	Handle seal	1
22	500-200-06	Filter, medium	1
23	584-535	Handle tube	1
24	580-530	Swivel	1
	313-2435	Label, LX-80 Platinum	
	594-040	Ball valve kit (includes items 10–12)	
	584-045	Repair kit (includes items 9–12 and 19)	

## Accessories

<b>Part #</b>	<b>Description</b>
611-275-1	6" Gun Extension
611-276-1	12" Gun Extension
611-277-1	18" Gun Extension
611-278-1	24" Gun Extension
611-630	Gun Extension Swivel Head Assembly
310-383-1	3' Pole Extension
310-386-1	6' Pole Extension
711-600	Pole Extension Swivel Head Assembly
316-505	1/4" x 50' Airless Hose, 3300 PSI
711-612	1/8" Airless Tip Gaskets
310-110	Spray/Roll Accessories Kit
310-950	9" Telescoping Roller Kit

## Limited Warranty

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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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