

# G-1 5XL

## Stainless Steel Gun

Model Number 0296470

**SprayTECH**  
THE DEPENDABLE CHOICE™

Form No. 0296462A

### Safety Precautions

This manual contains information that must be read and understood before using the equipment. When you come to an area that has one of the following symbols, pay particular attention and make certain to heed the safeguard.

#### **WARNING**

This symbol indicates a potential hazard which may cause serious injury or loss of life. Important safety information will follow.

#### **CAUTION**

This symbol indicates a potential hazard to you or to the equipment. Important information that tells how to prevent damage to the equipment or how to avoid causes of minor injuries will follow.

**NOTE:** Notes give important information which should be given special attention.

#### **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 5000 PSI / 35 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 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 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 electric sparks, open flames, pilot lights, and hot objects. Connecting or disconnecting power cords or working light switches can make sparks.
- Do not smoke in spray area.
- Fire extinguisher must be present and in good working order.
- Place paint pump at a minimum of 3 feet (preferably more) into a separate, well ventilated room from the spray object or at least 20 feet from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The paint pump contains arcing parts that emit spark 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.

#### **GAS ENGINE (WHERE APPLICABLE)**

Always place pump outside of structure in fresh air. Keep all solvents away from the engine exhaust. Never fill fuel tank with a running or hot engine. Hot surface can ignite spilled fuel. Always attach ground wire from pump unit to a grounded object, such as a metal water pipe. Refer to engine owner's manual for complete safety information.

**HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS - Will cause severe injury or property damage. This equipment contains aluminum and cannot be used with halogenated hydrocarbon solvents.**

#### **PREVENTION:**

- Do not use materials containing bleach or chlorine.
- Do not use halogenated hydrocarbon solvents such as 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 - This product 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 of skin and hair.

## Installation

**⚠ 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 observe all warnings.

## Pressure Relief Procedure

**⚠ WARNING**

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

1. Move the spray unit's ON/OFF switch to the OFF position.
2. Turn the spray unit's pressure control knob counterclockwise to its lowest setting.
3. 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.
4. Trigger the gun into the container to remove any pressure that may still be in the hose.
5. Lock the gun by turning the gun trigger lock to the locked position.
6. Turn the spray unit's PRIME/SPRAY valve to the PRIME position.



## Assembling the Gun and Tip Assembly

**⚠ CAUTION**

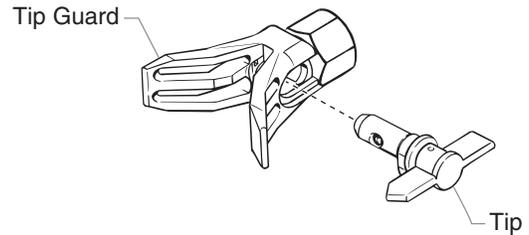
Before attaching a gun to a grounded high pressure airless hose, make sure that the airless spray unit is turned off and that fluid pressure has been relieved from the system.

### Assembling the Gun

1. Connect a high pressure fluid hose to the material inlet on the gun. Tighten securely with a wrench.
2. With the tip and tip guard off the gun, start the spray unit. Flush the system according to the manufacturer's recommendation. Inspect the unit to make sure that all fittings are secure and that there are no leaks.
3. Perform the "Pressure Relief Procedure" described earlier in this manual.

## Assembling the Tip

1. Insert the tip into the slot on the tip guard.



2. 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 spray unit.
3. Adjust the fluid pressure on the spray unit 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 install, change, or clean the tip or tip guard without first performing the "Pressure Relief Procedure."

1. Perform the "Pressure Relief Procedure" described earlier in this 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.

## 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 pump, 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 gun nozzle tip removed when using mineral spirits or any other solvent to clean the pump, hose, or gun. Static electricity buildup may result in a fire or explosion in the presence of flammable vapors.

### ⚠ WARNING

Always remove the tip/tip guard, adjust the pressure to its lowest setting, and 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 on the back of 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 and the copper washer from the front of the gun housing.
4. Remove the head screw, trigger pivot screw, and trigger.
5. Remove the plug from the rear of the gun housing.
6. Insert the repair tool into the passage at the rear of the gun housing, and force the seal assembly out through the front of the gun.

**NOTE:** If a repair tool is not available, remove one of the screws from the bottom of the gun handle and use it to tap on the back of the seal assembly.

7. Lubricate the o-rings on the new seal assembly.
8. Install the new seal assembly into the front of the gun housing. Using the open end of the repair tool, force the seal assembly completely into the gun housing. Push on the ball at the front of the seal assembly to ensure complete insertion.
9. Reattach the trigger, trigger pivot screw, and head screw.
10. With the trigger depressed, install the copper washer followed by the diffuser into the front of the gun housing and tighten securely with a wrench.
11. Perform the "Adjusting the Seal Assembly" procedure described below.

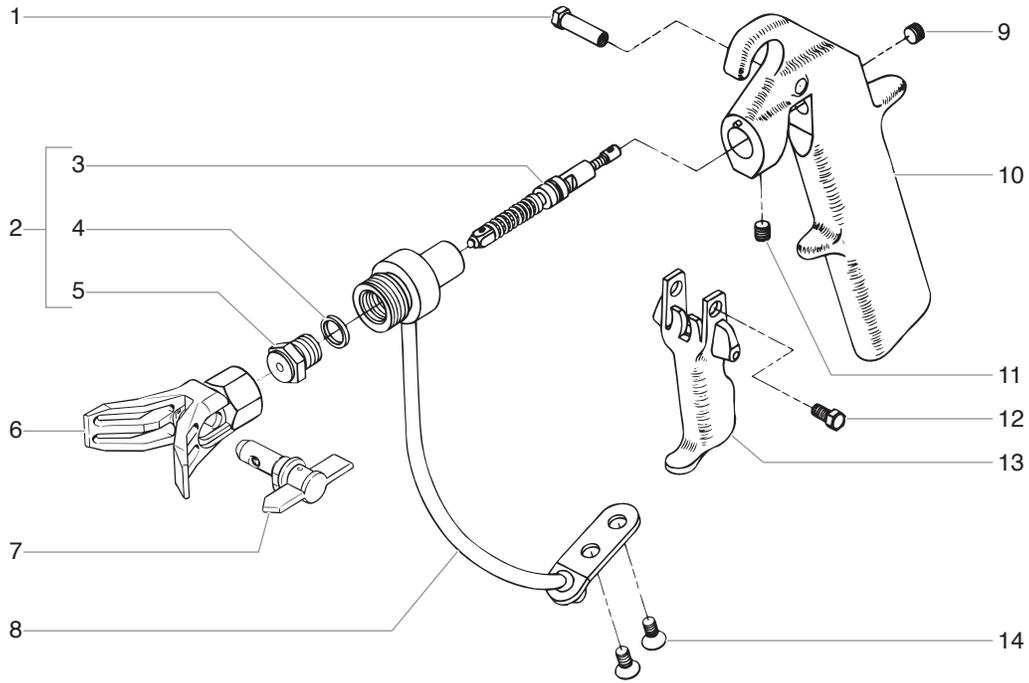
### Adjusting the Seal Assembly

### ⚠ WARNING

Proper adjustment of the seal assembly is essential to ensure positive shut-off when the trigger is released.

1. Pull the trigger and engage the trigger lock.
2. Insert a flat head screwdriver into the passage at the rear of the gun housing up to the seal assembly.
3. Turn the seal assembly clockwise until the trigger lock cannot be disengaged. Then, back off the seal assembly by turning it 1-1/4 turns counterclockwise.
4. Thread the plug into the passage at the rear of the gun housing and tighten securely.

# Parts List



Item	Part #	Description	Quantity	Item	Part #	Description	Quantity
1	520-028	Trigger pivot screw .....	1	8	520-408	Fluid tube assembly .....	1
2	0508967	Rebuild kit (includes items 3–5) .....	1	9	520-034	Plug .....	1
3	520-023	Seal assembly .....	1	10	520-039	Gun housing .....	1
4	520-020	Copper washer .....	1	11	520-035	Set screw .....	1
5	520-048	Diffuser assembly .....	1	12	520-031	Head screw .....	1
6	0297070	Tip guard .....	1	13	520-045	Trigger and lock assembly .....	1
7	0550517	Tip assembly .....	1	14	520-033	Screw .....	2

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