

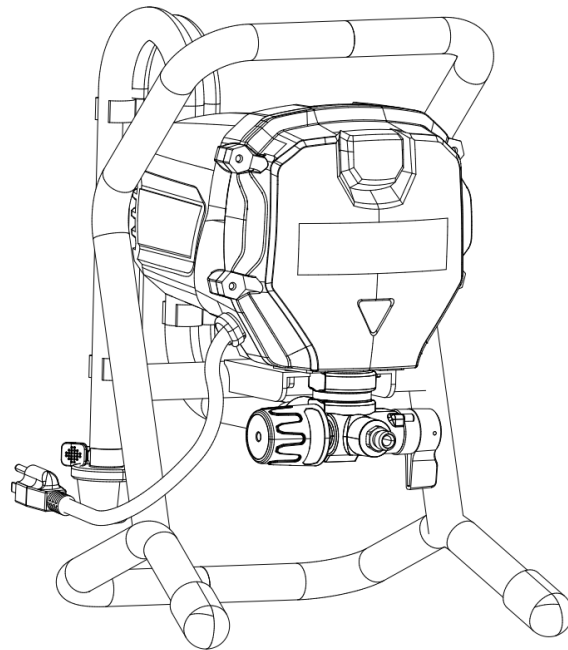
# POWERSMART<sup>®</sup>

## INSTRUCTION MANUAL

### Airless Paint Sprayer

Model # PS6300

Item# RP8626



Have product questions or need technical support? Please feel free to contact us!

Website: [www.Amerisuninc.com](http://www.Amerisuninc.com)  
[www.powersmartusa.com](http://www.powersmartusa.com)

Toll free: 1-800-791-9458 M-F 9-5 EST

Email: [support@amerisuninc.com](mailto:support@amerisuninc.com)



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## **TECHNICAL DATA**

Airless Paint Sprayer	Model # PS6300
Voltage/Frequency:	120V/60Hz
Motor power:	650W
Max. pressure:	3000PSI
Max. flowrate:	0.32GPM
Standard nozzle size :	0.017"(517)
Length of high pressure hose:	25Feet
Pressure of the hose:	≥83Mpa
Spraying width:	10"-12"
Paint outlet connector:	1/4-18NPSM
Package dimensions (L x W x H):	11.6 x 11.2 x 16.5 inches
Weight:	21.2 lb.

## **INTRODUCTION**

Thank You for Purchasing a PowerSmart® Product. This manual provides information regarding the safe operation and maintenance of this product. Every effort has been made to ensure the accuracy of the information in this manual. PowerSmart® reserves the right to change this product and specifications at any time without prior notice.

Please keep this manual available to all users during the entire life of the product.



This manual contains special messages to bring attention to potential safety concerns, product damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

## **QUESTIONS? PROBLEMS?**

Please contact our Customer Service Dept. with any questions and/or comments, either by Email: [support@amerisuninc.com](mailto:support@amerisuninc.com), or Toll Free at (800)791-9458. We are available Mon-Fri 9am-5pm EST to help solve any issues that you might encounter.

## **SAFETY INFORMATION**

Before operating this product, read and observe all warnings, cautions, and instructions on the product and in this Owner's Manual.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. Read the entire Owner's Manual for safety and operating instructions. Failure to follow instructions and safety information could result in serious injury or death.

This safety alert symbol is used to identify safety information about hazards that can result in personal injury.



A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

**DANGER** Indicates a hazard, which, if not avoided, will result in death or serious injury.

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

**CAUTION** Indicates a hazard, which, if not avoided, might result in minor or moderate injury.

**CAUTION** Without the alert symbol, indicates a situation that could result in damage.

## **GENERAL SAFETY RULES**

Safety is a combination of common sense, staying alert, and knowing how your product works.

**SAVE THESE SAFETY INSTRUCTIONS.**



**WARNING:** Do not operate this unit until you read this instruction manual for safety, operation and maintenance instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

### **WORK AREA SAFETY**

- Keep your work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

### **ELECTRICAL SAFETY**

#### **Grounding instructions**

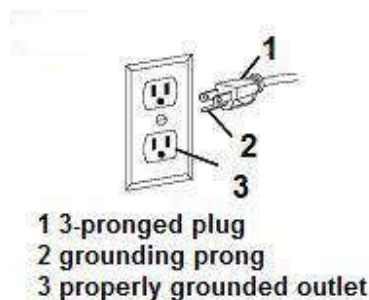
IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

**DO NOT MODIFY THE PLUG PROVIDED.** If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

**IMPROPER CONNECTION** of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

**CHECK** with licensed electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure if the tool is properly grounded.

**USE ONLY THREE-WIRE EXTENSION CORDS** that have 3-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. Repair or replace a damaged or worn cord immediately.



**CAUTION:** In all cases, make certain the outlet in question is properly grounded. If you are not sure if it is, have a licensed electrician check the outlet.



**WARNING:** Do not expose to rain or use in damp locations.

**Guidelines for using extension cords**

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. The table below shows the correct size to be used according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

**Minimum Gauge for Extension Cords (AWG)**  
(When using 120 V only)

Ampere Rating		Total Length of Cord in feet			
More Than	Not More Than	25	50	100	150
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.



**WARNING:** This tool must be grounded while in use to protect the operator from electric shock.

**PERSONAL SAFETY**

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Safety equipment such as dust mask, and non-skid shoes will reduce the risk of personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source.
- Do not overreach. Keep proper footing and balance at all times. this enables better control of the power tool in unexpected situations.
- Dress properly. Wear protective clothing as required by coating manufacturer.

- Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

## **POWER TOOL USE AND CARE**

- Know this tool. Read manual carefully, learn its applications and limitations, as well as the specific potential hazards related to this tool.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tools operation. If damaged, have the power tool serviced before using. Many accidents are caused by poorly maintained tools.
- Do not force power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it is designed.
- Maintain tools with care. Keep tool clean. A properly maintained tool, reduces the risk of binding and is easier to control.
- Store idle power tools out of reach of children and other untrained persons. Power tools are dangerous in the hands of untrained users.
- Check operation of the tool before use. Do not use the tool if the workpiece contact mechanism is not working correctly as accidental driving of a fastener may occur.
- Do not use the power tool if switch does not turn it on or off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Keep the tool and its handle dry, clean and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any strong solvents to clean your tool.
- Do not operate the tool if it does not contain a legible warning label.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend them these instructions.

## **SERVICE**

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

## **SPECIFIC SAFETY RULES FOR AIRLESS PAINT SPRAYER**



- Maintain labels and nameplates. These carry important safety information.
- Never spray materials near fire, flames, electrical sparks, or any other ignition source. Never smoke when spraying or in the vicinity of spraying. Always provide good ventilation. Vent during and after spraying to eliminate any enclosed explosive atmosphere.
- For units intended for use with only water-based materials-Do not spray or clean with flammable liquids. For use with water-based liquids only.
- Do not painting in rainy weather, severe cold (below 5°C), high temperature (above 40°C), high wind speed and other weather conditions. Please do not construct when the air humidity is greater than 85%.
- Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assemble, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use only conductive or grounded high-pressure airless paint sprayer hoses specified by the manufacturer.
- Verify that all containers and collection systems are grounded to prevent static discharge.
- Connect to a grounded outlet and use grounded extension cords. Do not use a 3 to 2 adapter.
- Keep spray area well ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area. Do not spray pump assembly.
- Do not operate light switches, engines, or similar spark producing products in the spray area.
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- 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.
- Fire extinguisher equipment shall be present and working.
- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Only use a nozzle tip specified by the manufacturer.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the manufacturer' s instructions for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
- High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.
- This system is capable or producing 20.7Mpa. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of 22.8Mpa.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.
- Always wear ANSI-approved safety goggles and NIOSH-approved ventilator or face mask. Some face masks, such as paper filters, provide only limited protection against harmful sprays and fumes. refer to the safety documents provided with the materials you are spraying or an industrial safety expert when determining the appropriate respiratory protection.
- This high-pressure airless sprayer is capable of producing 3,000 PSI and is capable of injecting toxins into the body and cause serious injury. In the event accidental injection occurs, seek medical attention immediately.
- Never place your hands, fingers or any part of your body in front of the spray nozzle if the spray gun is not disconnected and depressurized.
- Test spray on scrap material before spraying work material. High pressure spray may damage persons or property.














- Always use the Nozzle Tip Guard. Never spray without the Guard in place. Only use a Nozzle Tip specified by the manufacturer. Always relieve pressure before removing the Nozzle Tip to clean.
- 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.
- Always engage the Trigger Lock when not spraying. Make sure the Trigger Lock is functioning properly.
- Make sure all connections are secure before operating the unit.
- Always check the Hose for damage. Replace the Hose if damaged. Do not kink or excessively bend the Hose.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Read and understand the instructions and precautions provided by the manufacturer of each paint/solvent before using the sprayer. Never spray the solvents listed below in any Sprayer containing aluminum:
  - 1, 1, 1-Trichloroethane
  - Methylene Chloride
  - Halogenated hydrocarbons
- Never spray the solvents mentioned above in any Sprayer containing aluminum. Never use these solvents for cleaning equipment. Never use any solvent if in doubt if its composition or compatibility with aluminum, other materials or this Airless Sprayer. Such use can cause serious chemical reaction and equipment rupture, resulting in property damage and/or personal injury.
- To maintain grounding continuity when flushing or relieving pressure, hold the metal part of the Spray Gun firmly to the side of a grounded metal container. Then trigger the Spray Gun.
- Do not expose the hose to temperatures or to pressures in excess of those specified by the manufacturer.
- Do not use the hose as a strength member to pull or lift the equipment.
- Be aware of any hazards presented by the material being sprayed and consult the markings on the container or information supplied by the manufacturer of the material to be sprayed, including requirements for the use of personal protective equipment.
- Do not spray any material there the hazard is not know.

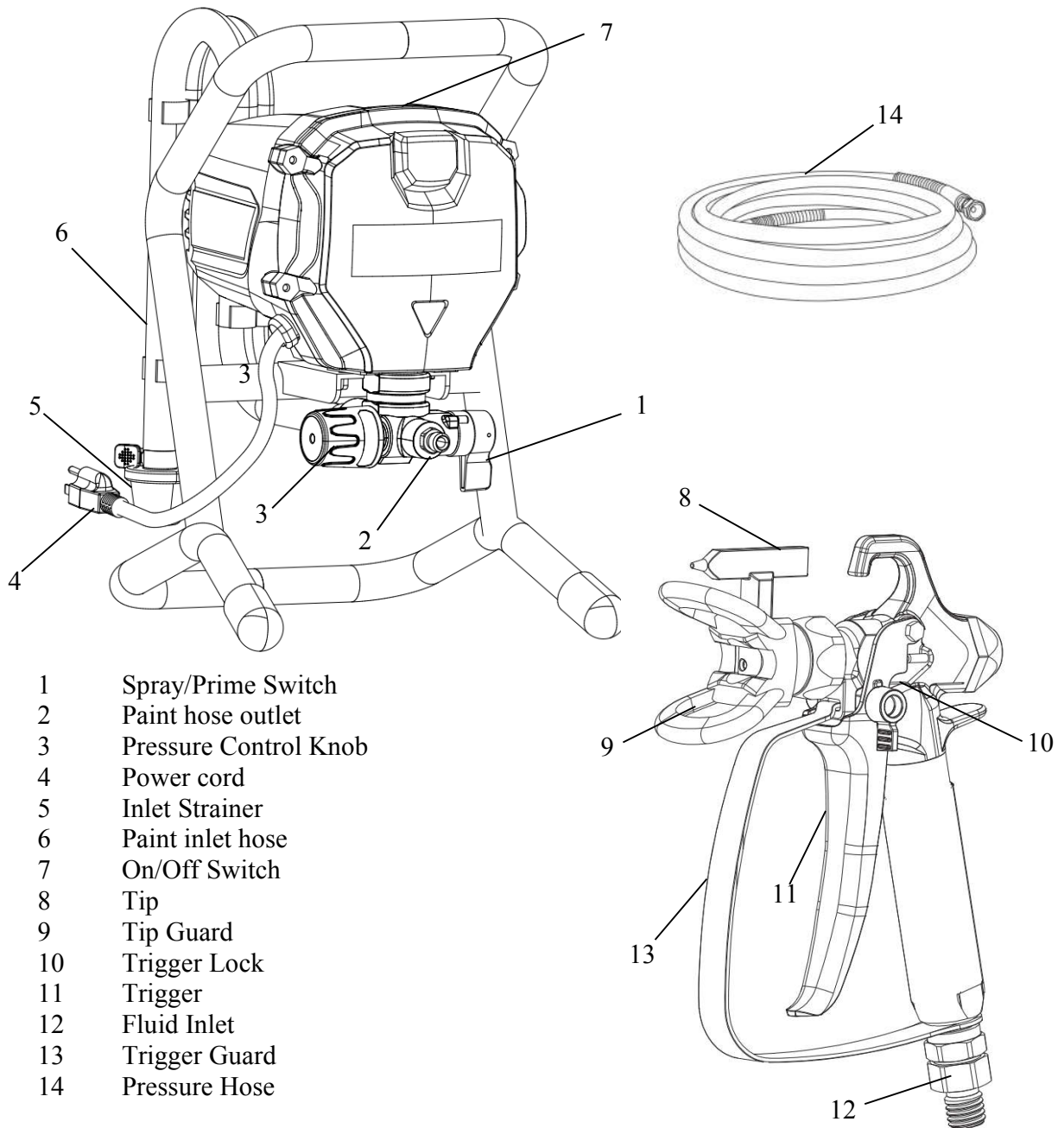
## **SYMBOLS**

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
MIN	Minutes	Time
	Safety Alert	Precautions that involve your safety.
	Read the user's manual	To reduce the risk of injury, user must read and understand user's manual before using this product.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Risk of fire or explosion	Do not spray flammable liquids.
		Do not spray flammable or combustible liquids in a confined area.
		Do not spray combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
	Personal protective equipment	Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns.
	Electric shock alert	Beware of electric shock hazard. This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.
	Pressurized aluminum parts hazard	Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.
	Toxic fluid or fumes hazard	Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.
	Skin injection hazard	Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
		Do not point gun at anyone or at any part of the body. Do not stop or deflect leaks with your hand, body, glove, or rag
		Keep clear of nozzle.
	Wet conditions alert	Do not expose to rain or use in damp locations.

# **KNOWING YOUR AIRLESS PAINT SPRAYER**



- 1 Spray/Prime Switch
- 2 Paint hose outlet
- 3 Pressure Control Knob
- 4 Power cord
- 5 Inlet Strainer
- 6 Paint inlet hose
- 7 On/Off Switch
- 8 Tip
- 9 Tip Guard
- 10 Trigger Lock
- 11 Trigger
- 12 Fluid Inlet
- 13 Trigger Guard
- 14 Pressure Hose

## **Unpacking**

Unpack the power tool and all its parts, and compare against the list below. Do not discard the carton or any packaging materials. Please call 1-800-791-9458 or E-mail us at [support@amerisuninc.com](mailto:support@amerisuninc.com) if any parts are damaged or missing.

Including: Airless Paint Sprayer / Airless Paint Spray Gun / 25 Feet High Pressure Hose / Plastic Cup / Brush / Rubber plug/ Hex Wrench /User manual

## ASSEMBLY INSTRUCTION



### **WARNING:**

Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.



### **WARNING:**

If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.



### **WARNING:**

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

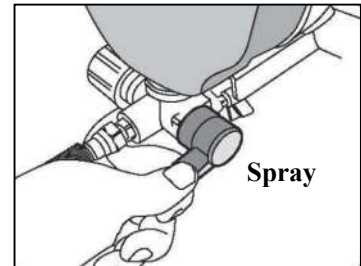
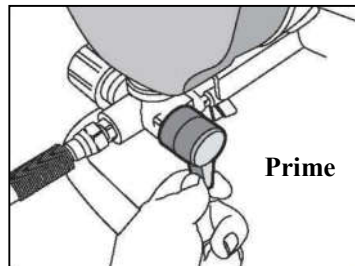


### **WARNING:**

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

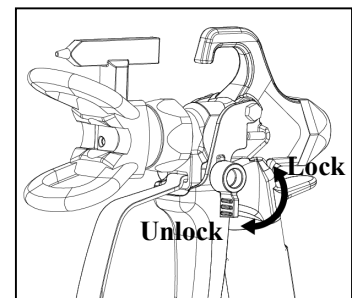
### **Prime/Spray Switch**

This switch toggles the unit between priming mode and spraying mode.



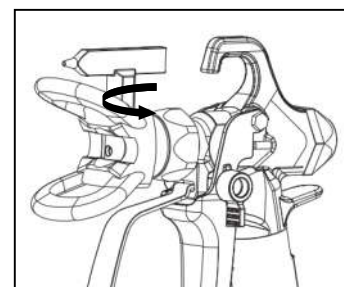
### **Trigger Lock**

When engaged, this mechanism prevents the trigger from being pulled accidentally such as if the gun is dropped. Lock whenever not in use.



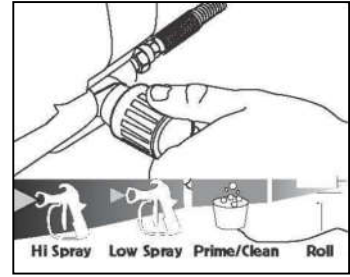
### **Nozzle**

The nozzle is reversible and removable to make cleaning and unclogging easier.



## Pressure Control Knob

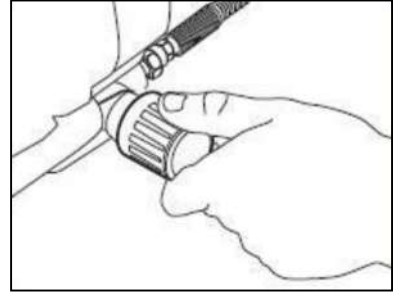
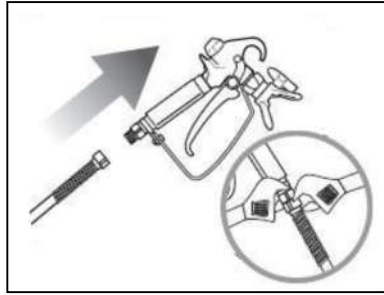
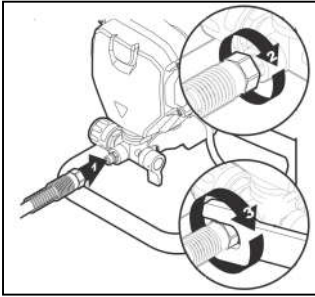
The Pressure Control Knob can be adjusted for High Pressure Spraying, Low Pressure Spraying, Priming/Cleaning, or Rolling. Align the Pressure Control Knob with indicator on the Sprayer Housing to set the function.



## SET UP

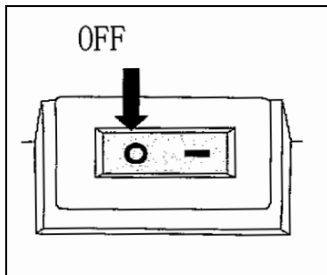
Noted: Remove or cover objects that you want to protect from overspray (paint mist).

- Connect paint hose to paint hose outlet. Use wrench to tighten securely.
- Attach paint hose to paint gun and tighten with two wrenches.
- Turn pressure control knob to low pressure spray setting.

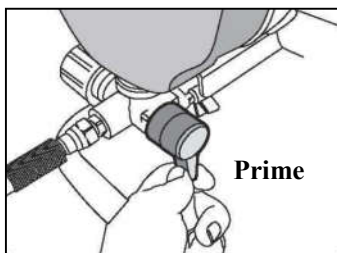


## TO RELIEVE SPRAYER PRESSURE

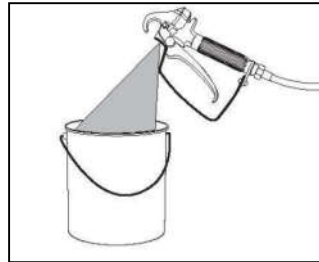
1. Turn power switch off and unplug unit from outlet.



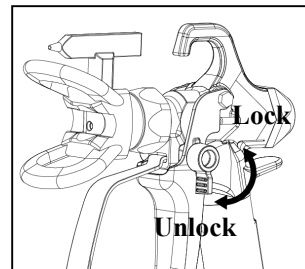
2. Switch prime/spray switch to prime mode.



3. Point gun into paint pail and activate sprayer trigger to relieve pressure.



4. Turn trigger lock knob to locking position.



**Note:** Always set to prime mode between uses.

## **OPERATING INSTRUCTION**



**WARNING:** Read and thoroughly understand all instructions and safety information before operating this tool. Failure to do so may cause serious injury or death. Do not allow anyone to operate this tool who has not read this manual. The tool can be dangerous if assembled or used improperly. Do not operate this tool if you have doubts or questions concerning safe operation. Call our customer service department at 1-800-791-9458 to address these concerns.

### **BEFORE STARTING**

1. **Check** all fittings and connections in the pump system, hose, and gun to ensure that they are tight. **Check** to ensure that there is a spray tip in the gun, and that the tip is the correct size for the coating you are to spray. (There are various tips available, for each type of coating or configuration.)
2. **Make sure** the power source is securely grounded and match the motor rating of your sprayer.
3. **New spray:** Oil is used by the factory for testing and protection. It is necessary to flush unit before spraying. Clean the pump with warm soapy water, Make sure the hydraulic oil in the pump is clean and sufficient in volume then begin the following procedure.
  - Remove spray tip from gun.
  - Put the input hose and pressure relief tube into the bucket with some water.
  - Turn on the motor and push the pressure valve upright. In a few seconds, water will begin to flow up through the tube and flow out from outlet valve, tighten the outlet valve deasil, then tighten the pressure valve deasil.
  - When the pressure reaches up to around 207bar, check if there is any leakage on the outlet hose, if it is leak, Please check. Do not stop or deflect leaks with your hand, body, glove or rag.
  - If doesn't leak, open the spray gun and have a testing spray. Clean the oil in pump. Change the soapy water and use clean water when the spray is clean.
  - Turn off power, Continue to spray till no water out.
  - Unlock trigger lock. Put the pressure valve upright, till no soapy water in pump.

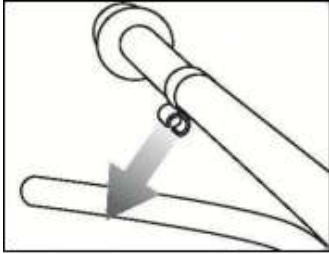
### **PRESSURE RELEASE PROCEDURE**

Whenever instructed to relieve pressure, Stop spraying, Check or service equipment or install or clean spray tip.

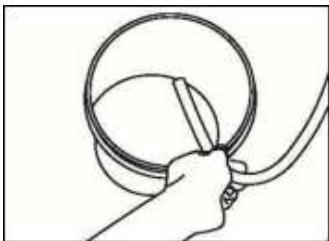
- Engage trigger safety lock on gun. Turn Off power and turn sprayer pressure control to lowest pressure setting.
- Hold gun against side of flushing pail. Trigger gun into pail to relieve pressure.
- Turn off pump and release fluid pressure by turning the pressure relief prime valve located on the side of the pump down.

## PRIMING AND STARTUP STEPS

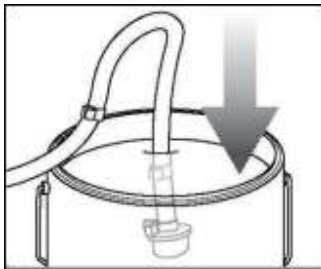
1. Separate smaller Priming Tube from Suction Tube.



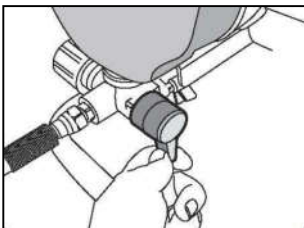
2. Place Priming Tube in waste bucket.



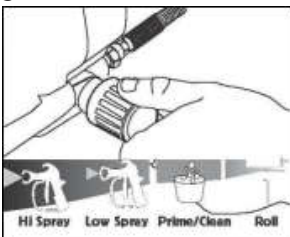
3. Submerge Suction Tube in water or flushing solvent.



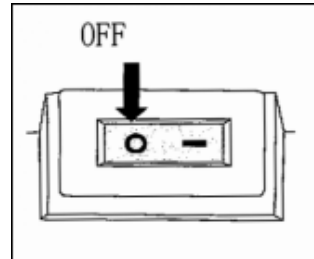
4. Turn Prime/Spray switch to Prime mode.



5. Adjust Pressure Control Knob to Prime/Clean setting.

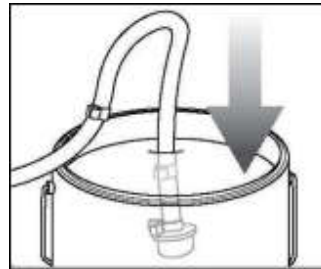


6. Plug in Sprayer and turn on power.



7. Sprayer will start pumping and water or flushing solvent as well as air bubbles will be purged from system. Let fluids discharge from Priming Tube into waste bucket for 30 to 60 seconds then switch Power to Off.

8. Remove Suction Tube from water or flushing solvent and submerge in paint pail.



9. Switch Power to On.

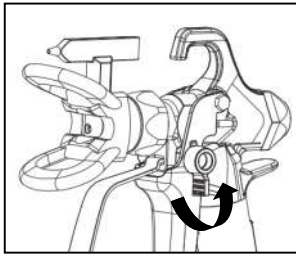
10. Paint should work itself from Suction Tube to Sprayer to Return Tube until paint discharges from Return Tube. Point gun into waste bucket and pull trigger.

11. Turn spray/prime switch to spray mode and continue to spray into waste bucket.

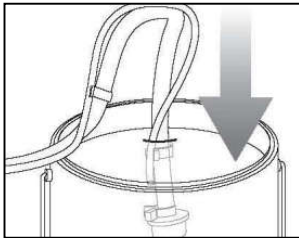




12. Stop spraying and activate trigger lock.



13. Remove the priming tube from the waste bucket and clip to suction tube and submerge in paint pail.



14. If the motor stops, the pump and tubes are primed. If it does not stop, repeat priming steps.

15. Start painting.

## PAINTING



**WARNING:** Before painting, ensure the sprayer has been primed (see priming and startup steps) and verify that nozzle tip is aligned properly.

Note: Remove or cover objects that you want to protect from overspray and paint mist.

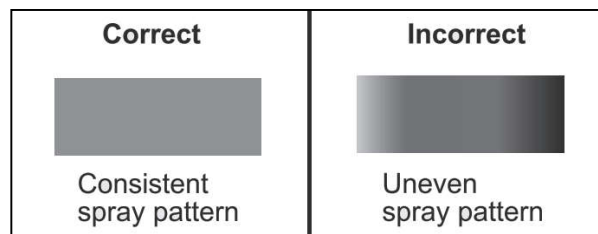
1. Once primed, adjust nozzle to spray setting. Make sure the arrow on the tip handle is pointing in the forward direction for spraying.
2. Start spraying at the lowest setting on the pressure control knob and increase pressure as needed by turning clockwise to create a good spray pattern.



## PAINTING TECHNIQUES

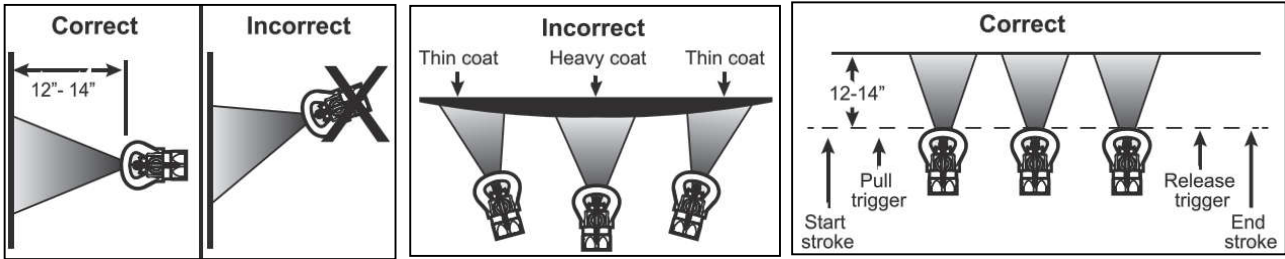
- Increase pressure until you achieve the correct full even spray pattern.

**Note:** Do a few spray tests on a sheet of cardboard to make sure you achieve a good spray pattern. If you reach the maximum PSI pressure setting and the spray pattern is still not correct or there is an uneven spray finish, a smaller tip size may be required.





- The spray gun should be held 12-14 inches away from the surface and held at a 90° angle from the surface area.



## CLEAN UP



**WARNING:** Cleaning the sprayer after each use results in a trouble free start up the next time the sprayer is used.

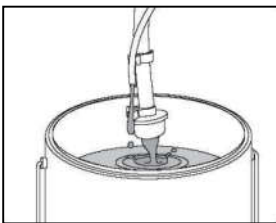
### Clearing spray tip

Occasionally, the Spray Gun Tip will become clogged with paint. Follow these instructions to clear Spray Gun Tip.

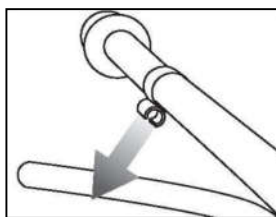
- Switch power off and set Trigger Lock.
- Adjust nozzle to clean setting.
- Turn Spray/ Prime Switch to Spray mode.
- Turn power on.
- Unlock Trigger.
- Spray into water bucket until clog clears.
- Release Trigger and engage Trigger Lock.
- Adjust nozzle to Spray mode.

### Cleaning

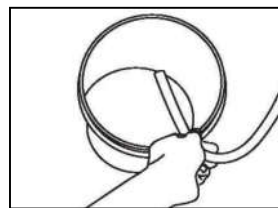
1. Relieve pressure and drain paint from Tubes.



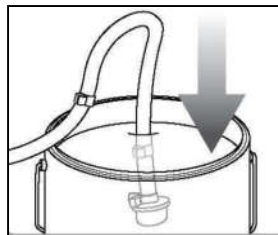
2. Separate tubes.



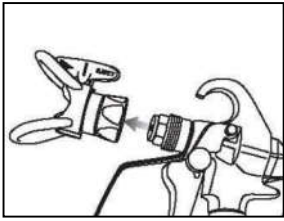
3. Place Priming Tube in empty waste bucket.



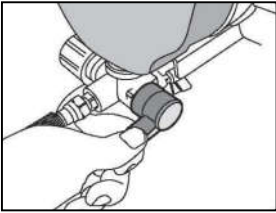
4. Submerge Suction Tube in water or flushing fluid.



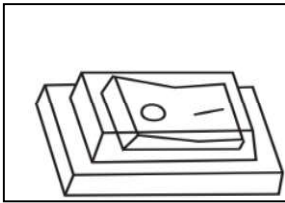
5. Unthread Spray Tip and remove.



6. Turn to Spray mode.



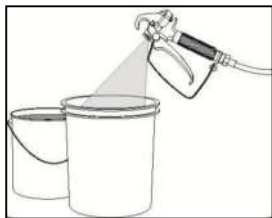
7. Switch power to on.



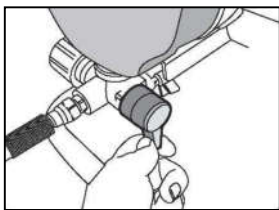
8. Spray paint into paint pail.



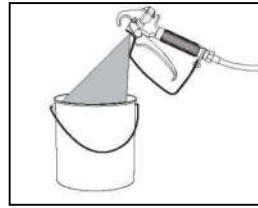
9. Change to waste bucket as paint thins.



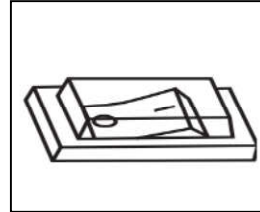
10. Turn to Prime mode.



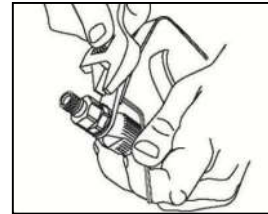
11. Continue to flush until clear.



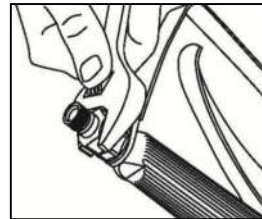
12. Release trigger, turn power off and relieve pressure.



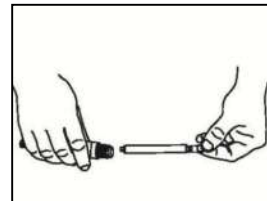
13. Remove trigger guard from housing.



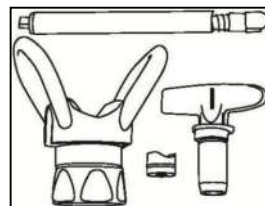
14. Unscrew nut.



15. Remove filter.



16. Clean all parts in warm, soapy water or flushing fluid with a bristled brush.



# MAINTENANCE

## LONG TERM STORAGE

When cleaning for long term storage (more than 48 hours). It is very important that the Paint Sprayer is not stored with any water or water-based material left in the Pump, Hose, Tubes, or Spray Gun. This will corrode the product.

**IMPORTANT:** Clean the Sprayer before storage.

1. Remove paint hose if not already removed.
2. Turn the until over and loosen the Clamps from both Tubes, then disconnect Tubes from the Pump Body.
3. Add one ounce of light household oil or a pump storage product into each inlet.
4. Turn Prime/Spray switch to Spray.
5. Turn Pressure Control Knob to Low/Spray.
6. Hold a rag over the paint hose outlet.
7. Switch Power to ON for five seconds, then turn the power off.
8. Turn Prime/Spray switch to Prime, this will keep storage fluids in sprayer.
9. Replace the Tubes and secure with the Clamps.
10. Wipe the sprayer with a clean cloth. Store in a clean dry location out of reach of children.

## DAILY MAINTAIN

Equipment lifetime is rely on daily maintain. The following respects should be obeyed:

- Read the Manual carefully before first using.
- Check the electrical requirement before each working.
- Thorough cleaning equipment and the accessories after using.
- Coil the tube after cleaning, in case of any damage.
- Add some lubricant if long time not use.

## GENERAL REPAIR INFORMATION



**WARNING:** Do not touch the hot surface.



**WARNING:** To reduce risk of serious injury, including electric shock:

- Do not touch moving or electric parts with fingers or tools while testing repair.
- Unplug sprayer when power is not required for testing.
- Install all covers, gaskets, screws and washers before you operate sprayer.



**CAUTION:** Do not run sprayer dry for more than 30 seconds. Doing so could damage pump packings.

Protect the internal drive parts of this sprayer from water. Openings in the cover allow for air cooling of the mechanical parts and electronics inside. If water gets in these openings, the sprayer could malfunction or be permanently damaged.

Prevent pump corrosion and damage from freezing. Never leave water or water-base paint in sprayer when its not in use in cold weather. Freezing fluids can seriously damage sprayer. Store sprayer with Pump Armor to protect sprayer during storage.

- Keep all screws, nuts, washers, gaskets, and electrical fittings removed during repair procedures. These parts usually are not provided with replacement kits.
- Test repairs after problems are corrected.
- If sprayer does not operate properly, review repair procedure to verify you did it correctly. See Troubleshooting, page 20.
- Overspray may build up in the air passages. Remove any overspray and residue from air passages and openings in the enclosures whenever you service sprayer.
- Do not operate the sprayer without the motor shroud in place. Replace if damaged. Motor shroud directs cooling air around motor to prevent overheating and insulates the control board from accidental electric shock.

## **TROUBLE SHOOTING**

The following form lists the common operating system with problem and solutions. Please read the form carefully and follow it.



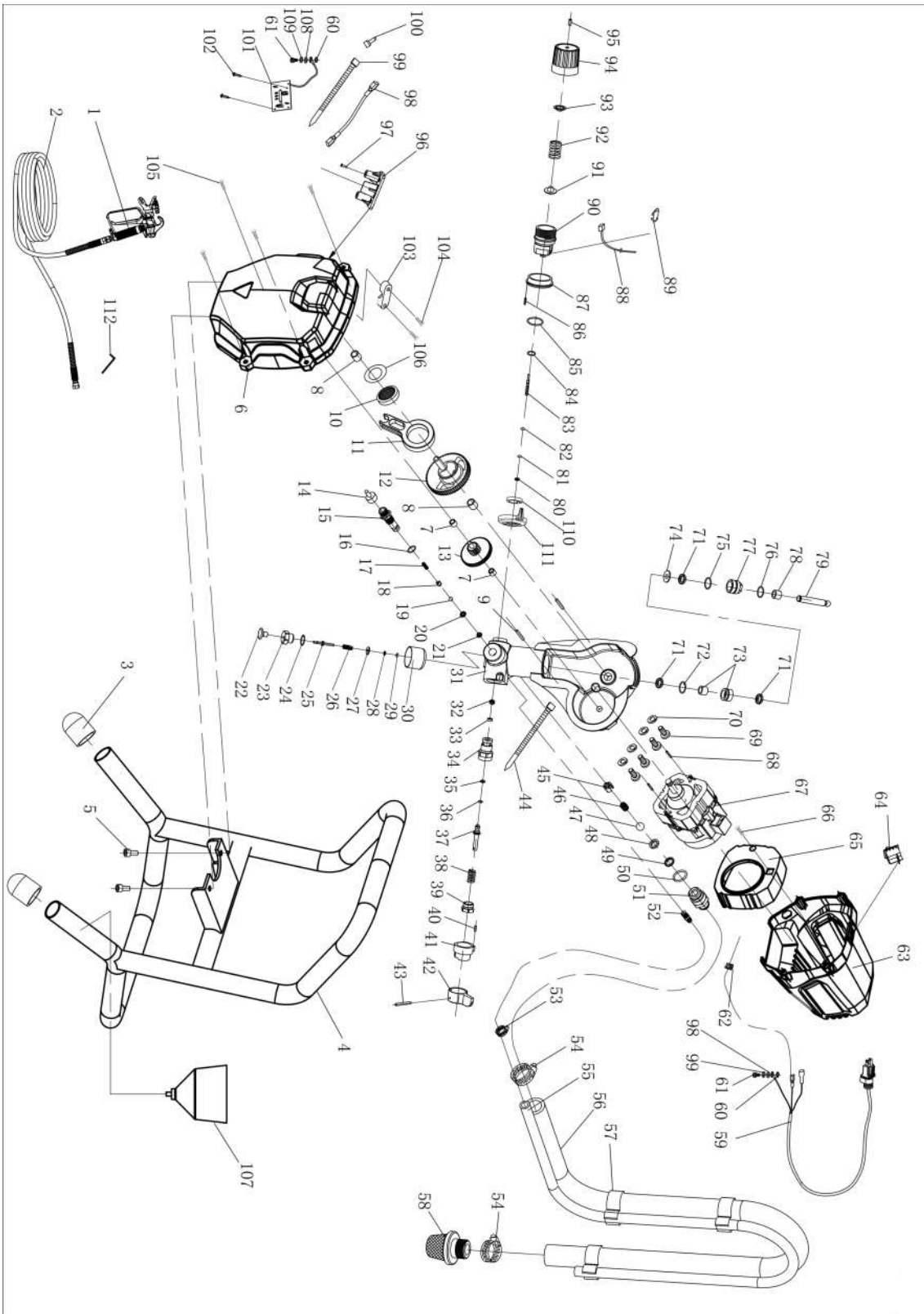
**WARNING:** If any of the following symptoms appears during your operating, stop using the tool immediately, or serious personal injury could result. Only a qualified persons or an authorized service center can perform repairs or replacement of tool.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Basic Fluid Pressure	1. Pressure control knob setting. Motor will not run if set at minimum (fully counter-clockwise).	1. Slowly increase pressure setting to see if motor starts
	2. Spray tip or fluid filter may be clogged.	2. Relieve pressure ,then Then clear clog or clean gun filter
Basic Mechanical	1. Pump frozen or hardened paint	1. Thaw sprayer if water or water-based paint has frozen in sprayer. Place sprayer in warm area to thaw. Do not start sprayer until thawed completely. If paint hardened (dried) in sprayer, replace pump packings.
	2. Displacement pump connecting rod pin. Pin must be completely pushed into connecting rod and retaining spring must be firmly ingroove or pump pin.	2. Push pin into place and secure with spring retainer.
	3. Motor. Remove drive housing assembly.	3. Replace motor if fan won't turn.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Low Output	1. Worn spray tip.	1. Relieve pressure, Replace tip.
	2. Verify pump does not continue to stroke when gun trigger is released.	2. Service pump.
	3. Prime valve leaking.	3. Relieve pressure, Then repair prime valve.
	4. Suction tube connections	4. Tighten any loose connections. Check o-ring on suction tube.
	5. Electric supply with volt meter. Meter must read 220-240 Vac or 100-120 Vac (According to models). Low voltages reduce sprayer performance.	5. Reset building circuit breaker; replace building fuse. Repair electrical outlet or try another outlet.
	6. Extension cord size and length.	6. Replace with a correct, grounded extension cord.
	7. Leads from motor to circuit board for damaged or loose wire connectors. Inspect wiring insulation and terminals for signs of overheating.	7. Be sure male terminal pins are centered and firmly connected to female terminals. Replace any loose terminals or damaged wiring. Securely reconnect terminals.
	8. Worn motor brushes which must be greater than 1/4 in. (6 mm).	8. Replace brushes.
	9. Motor brushes binding in brush holders.	9. Clean brush holders. Remove carbon dust by using compressed air to blow out brush dust.
	10. Low stall pressure. Turn pressure control knob fully clockwise.	10. Replace pressure control assembly.
	11. Motor armature for shorts by using an armature tester (growler) or perform spin test.	11. Replace motor

# EXPLODED VIEW & PARTS LIST

## Airless Paint Sprayer exploded view



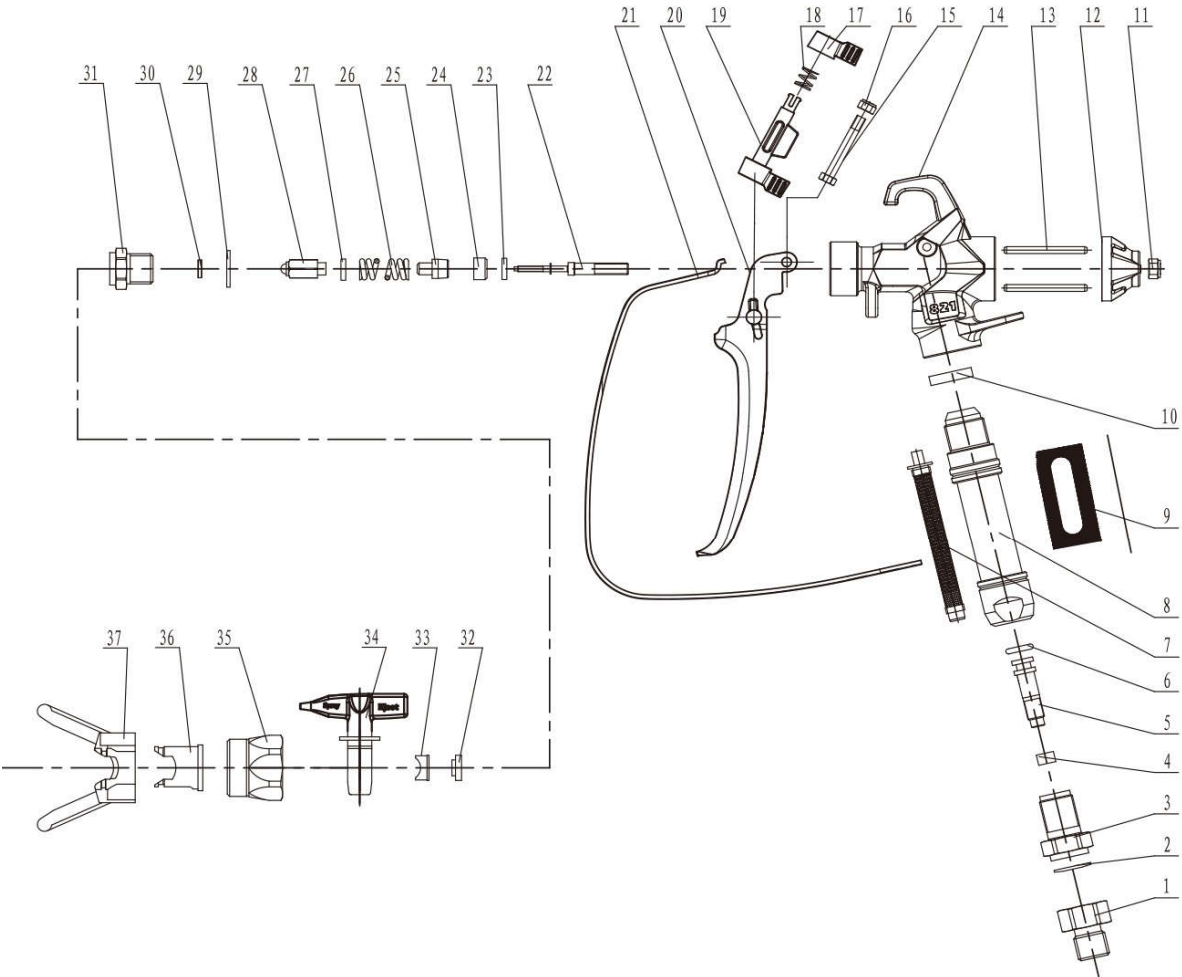
## Airless Paint Sprayer parts list

Item	Stock#	Description	Qty.	Item	Stock#	Description	Qty.
1	PS6300-001	Airless spray gun	1	32	PS6300-032	Plastic washer	1
2	PS6300-002	Paint hose	1	33	PS6300-033	Pressure relief valve pad	1
3	PS6300-003	Food pad	2	34	PS6300-034	Pressure relief valve seat	1
4	PS6300-004	Base frame	1	35	PS6300-035	O-ring 5*1.8	1
5	PS6300-005	Hex Bolt M6*25	2	36	PS6300-036	Ring	1
6	PS6300-006	Pump cover	1	37	PS6300-037	Pressure relief valve rod and pole	1
7	PS6300-007	Small copper sleeve	2	38	PS6300-038	Spring	1
8	PS6300-008	large copper sleeve	2	39	PS6300-039	Spring seat	1
9	PS6300-009	Hex Bolt M6*25	2	40	PS6300-040	Pin	1
10	PS6300-010	Pump cover	1	41	PS6300-041	Switch seat	1
11	PS6300-011	Rod	1	42	PS6300-042	Switch knob	1
12	PS6300-012	Output gear	1	43	PS6300-043	Pin	1
13	PS6300-013	Screw	1	44	PS6300-044	Nylon cable tie	1
14	PS6300-014	Screw thread insert	1	45	PS6300-045	Inlet spring holder	1
15	PS6300-015	Paint outlet	1	46	PS6300-046	Input spring	1
16	PS6300-016	O-ring 10*1.8	1	47	PS6300-047	Steel ball 12.7	1
17	PS6300-017	Output spring	1	48	PS6300-048	Input seal	1
18	PS6300-018	Mandrel	1	49	PS6300-049	Input washer	1
19	PS6300-019	Steel ball 6.4	1	50	PS6300-050	O-ring 17*1.8	1
20	PS6300-020	Seal seat	1	51	PS6300-051	Paint Input adaptor	1
21	PS6300-021	Output washer	1	52	PS6300-052	Pressure relief plug	1
22	PS6300-022	touch handle	1	53	PS6300-053	Small clamp	1
23	PS6300-023	touch seat	1	54	PS6300-054	Large clamp	2
24	PS6300-024	O-ring 10*1.5	1	55	PS6300-055	Priming tube	1
25	PS6300-025	touch rod	1	56	PS6300-056	Suction tube	1
26	PS6300-026	touch spring	1	57	PS6300-057	Clip	3
27	PS6300-027	cooper washer	1	58	PS6300-058	Filter Assembly	1
28	PS6300-028	ring	1	59	PS6300-059	Power plug	1
29	PS6300-029	O-ring 2.4*1.8	1	60	PS6300-060	Locking ring	2
30	PS6300-030	Cover	1	61	PS6300-061	Screw	2
31	PS6300-031	Pump	1	62	PS6300-062	Wire Fastening seat	1

Item	Stock#	Description	Qty.	Item	Stock#	Description	Qty.
63	PS6300-063	Housing	1	88	PS6300-089	Micro switch	1
64	PS6300-064	Power switch	1	89	PS6300-090	Micro switch cover	1
65	PS6300-065	Shutter exhaust cover	1	90	PS6300-091	Adjust seat insert	1
66	PS6300-066	Bolt	1	91	PS6300-092	Deflating cap	1
67	PS6300-067	Motor assembly	1	92	PS6300-093	Pressure adjusting spring	1
68	PS6300-068	Pin 3*12	2	93	PS6300-094	Spring pusher	1
69	PS6300-069	Hex bolt M5*14	4	94	PS6300-095	Adjust sleeve insert	1
70	PS6300-070	Spring 5	4	95	PS6300-096	Pressure control bolt	1
71	PS6300-071	Retaining ring	3	96	PS6300-097	PCB supporter	1
72	PS6300-072	O-ring 22.5*1.8	1	97	PS6300-098	Bolt	1
73	PS6300-073	Joint stopper	1	98	PS6300-099	Wire connector	1
74	PS6300-074	Piston washer	1	99	PS6300-100	Nylon Cable tie	1
75	PS6300-075	Tabletting	1	100	PS6300-101	wire connector	1
76	PS6300-076	Piston seat seal ring	1	101	PS6300-102	PCB Assembly	1
77	PS6300-077	O-ring 26.5*1.8	1	102	PS6300-103	Tapping screw	2
78	PS6300-078	Piston seat	1	103	PS6300-104	Power cord fixer	1
79	PS6300-079	Guide sheath	1	104	PS6300-105	Bolt	2
80	PS6300-080	Piston	1	105	PS6300-106	Bolt	4
81	PS6300-081	Lock sleeve	1	106	PS6300-107	Collar	1
82	PS6300-082	Strengthen seal	1	107	PS6300-108	Cup	1
83	PS6300-083	White seal	1	108	PS6300-109	Spring washer	2
84	PS6300-084	Switch lever	1	109	PS6300-110	Flat washer	2
85	PS6300-085	O-ring 8.8*1.9	1	110	PS6300-111	Breakwater	1
86	PS6300-086	O-ring 27*2.4	1	111	PS6300-112	sticker	1
87	PS6300-087	Bolt	2	112	PS6300-113	4mm Wrench	1



**Airless Paint Spray Gun exploded view**



## Airless Paint Spray Gun parts list

Item	Stock#	Description	Qty.	Item	Stock#	Description	Qty.
1	PS6300-G-01	Air inlet connector	1	20	PS6300-G-20	Trigger	1
2	PS6300-G-02	Washer	1	21	PS6300-G-21	Trigger guard	1
3	PS6300-G-03	Material inlet joint	1	22	PS6300-G-22	Thimble	1
4	PS6300-G-04	Interval washer	1	23	PS6300-G-23	Copper washer	1
5	PS6300-G-05	Material connection core	1	24	PS6300-G-24	Thimble sealing washer	1
6	PS6300-G-06	O-ring 6*2	1	25	PS6300-G-25	Spring core	1
7	PS6300-G-07	Filter	1	26	PS6300-G-26	Thimble spring	1
8	PS6300-G-08	Handle	1	27	PS6300-G-27	Thimble head washer	1
9	PS6300-G-09	Handle sheath	1	28	PS6300-G-28	Thimble head assembly	1
10	PS6300-G-10	Washer	1	29	PS6300-G-29	Plug washer	1
11	PS6300-G-11	Hex lock nut	1	30	PS6300-G-30	Plug insert	1
12	PS6300-G-12	Switch seat	1	31	PS6300-G-31	Plug seat	1
13	PS6300-G-13	Switch pin	2	32	PS6300-G-32	Rubber Plug	1
14	PS6300-G-14	Gun body	1	33	PS6300-G-33	Nozzle cap	1
15	PS6300-G-15	Hex bolt	1	34	PS6300-G-34	Reversible tip assembly	1
16	PS6300-G-16	Hex lock nut	1	35	PS6300-G-35	Nut	1
17	PS6300-G-17	Trigger pole joint	1	36	PS6300-G-36	Tip seat	1
18	PS6300-G-18	Spring	1	37	PS6300-G-37	Tip guard	1
19	PS6300-G-19	Trigger pole	1				

## **TWO (2) YEARS LIMITED WARRANTY**

PowerSmart® is committed to building tools that are dependable for years. Our warranties are consistent with our commitment and dedication to quality.

### **TWO (2) YEARS LIMITED WARRANTY OF POWERSMART PRODUCTS FOR HOME USE.**

PowerSmart ("Seller") warrants to the original purchaser only, that all PowerSmart consumer power tools will be free from defects in material or workmanship for a period of two (2) years from date of purchase. Ninety (90) days for all PowerSmart Products, if the tool is used for professional or commercial use.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Two (2) Years Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the entire power tool product; transportation prepaid, to PowerSmart Include a legible copy of the original receipt, which lists the date of purchase (month and year) and the name of the company purchased from.

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Email: [support@amerisuninc.com](mailto:support@amerisuninc.com)

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