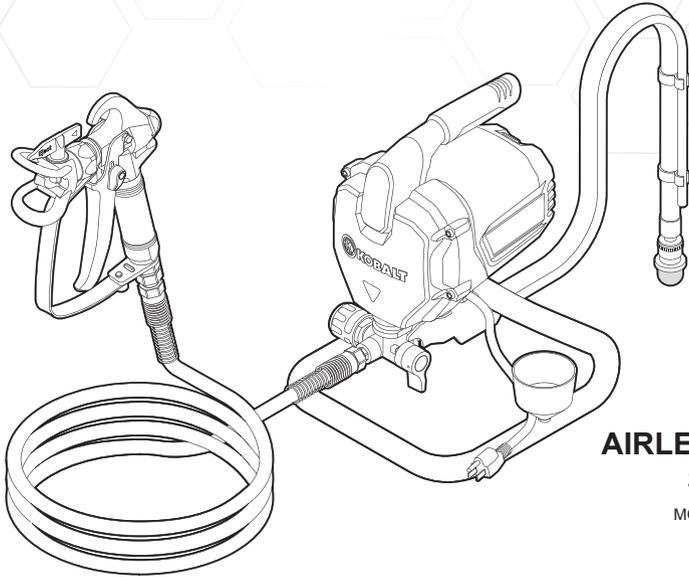




# NEXT GENERATION OF TOUGH TOOLS™



ITEM #0232741

## AIRLESS PAINT SPRAYER

MODEL #SGY-APS41

Français p. 34

Español p. 69

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### ATTACH YOUR RECEIPT HERE

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-888-356-2258), 8 a.m. - 8 p.m., EST, Monday - Friday.

## TABLE OF CONTENTS

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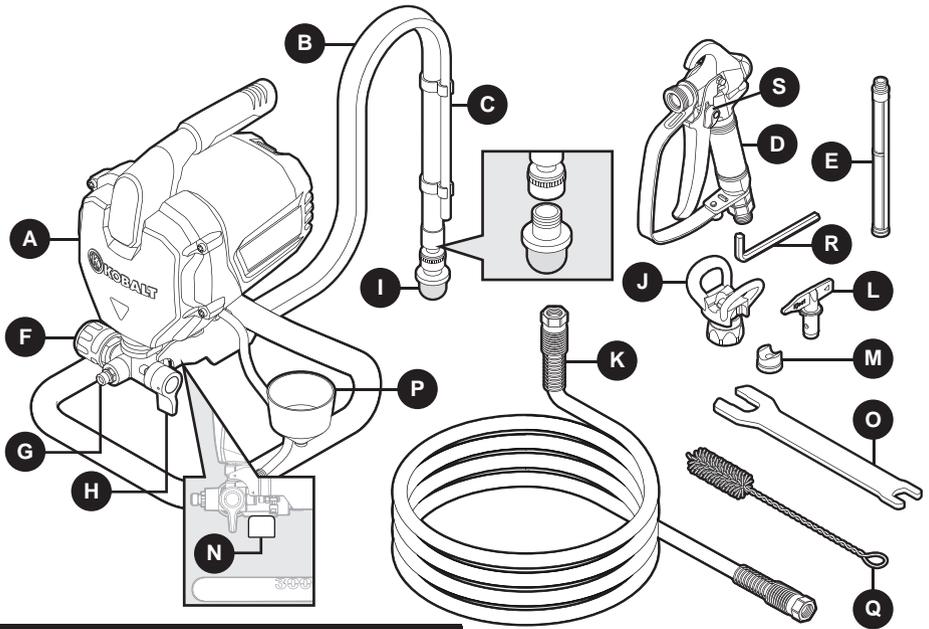
Product Specifications .....	2
Package Contents .....	3
Safety Information .....	4
Preparation .....	10
Understanding Airless Paint Sprayer Components .....	11
Assembly Instructions.....	12
Operating Instructions .....	17
Spraying Techniques .....	23
Care and Maintenance .....	25
Troubleshooting.....	29
Warranty .....	31
Exploded View .....	32

## PRODUCT SPECIFICATIONS

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COMPONENTS	SPECIFICATIONS
Motor Size	5/8 HP
Max Pressure	3,000 PSI
Voltage	120 V, 60 Hz
Certification	ETL
Power Cord Length	28 in. (0.73 m)
Nozzle Size Included	517 and 513
Sprayer Width	250 – 310 mm
Flow Rate	0.28 GPM (1.06 L/Min)
Maximum Hose Pressure	3,300 PSI (22.8 Mpa)

## PACKAGE CONTENTS



PART	DESCRIPTION	QUANTITY
A	Airless Paint Sprayer	1
B	Suction Tube	1
C	Prime Tube	1
D	Spray Gun Housing	1
E	Internal Gun Filter	1
F	Pressure Control Knob	1
G	Fluid Outlet	1
H	Prime Spray Valve Switch	1
I	Inlet Screen	1
J	Spray Guard	1
K	High Pressure Fluid Hose	1
L	Spray Tip	2
M	Single Seal Tip	1
N	Pressure Release Button	1
O	Wrench	1
P	Inlet Screen Holder	1
Q	Plastic Bristle Cleaning Brush	1
R	Hex Key	1
S	Safety Lock	1

## SAFETY INFORMATION

Please read and understand this entire manual before attempting to assemble, operate or maintain this product. If you have any questions, please call our Customer Service Department at 1-888-3KOBALT, 8:00 a.m. – 8:00 p.m. EST, Monday – Friday.

**SAVE THESE INSTRUCTIONS** – To reduce the risks of fire or explosion, electrical shock, and personal injury, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

### WARNING

Improper operation or maintenance of this tool could result in serious injury and property damage. Read and understand all warnings and operation instructions before using this tool. When using any tool, basic safety precautions should always be followed to reduce the risk of personal injury. Use each tool for its intended function only. Do not use this product in unsafe work conditions. It is always recommended to keep a fire extinguisher and first aid kit near work areas.

**FAILURE TO OBSERVE AND FOLLOW SAFETY INSTRUCTIONS COULD RESULT IN INJURY OR DEATH.**

### WARNING

Some dust created by paint spraying, power sanding, sawing, grinding, drilling and other related activities is known to the state of California to cause cancer, birth defects and other reproductive harm. A listing of chemicals can be obtained from [www.oehha.ca.gov](http://www.oehha.ca.gov) under Proposition 65.

Some examples of these chemicals are:

- Lead from lead based paints
- Crystalline silica from bricks, cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals work in a well-ventilated area and wear appropriate/approved safety equipment such as respirators or dust masks which are specially designed to filter microscopic particles. Wash hands after handling.

### WARNING PAINT SPRAYER HAZARDS

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"><li>• Eyes and face can come into direct contact with sprayed materials, causing serious injury.</li></ul>	<ul style="list-style-type: none"><li>• Never aim or spray at yourself or anyone else.</li><li>• Always wear ANSI approved Z87.1 safety glasses with side shields, appropriate face mask/respirator and protective clothing when spraying.</li><li>• Always spray in a well-ventilated area to prevent health and fire hazards.</li><li>• If eyes or face come into direct contact with sprayed materials, contact your local doctor or emergency room for immediate help.</li></ul>
<ul style="list-style-type: none"><li>• Spraying improper materials or materials not intended for spray application could result in serious injury or death.</li></ul>	<ul style="list-style-type: none"><li>• Do not spray acids, corrosive materials, toxic chemicals, fertilizers or pesticides.</li><li>• Always read the label or Safety Data Sheet (SDS) for the materials and/or chemicals before spraying to ensure they are safe to use.</li></ul>

## SAFETY INFORMATION

### **WARNING** PAINT SPRAYER HAZARDS

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"><li>• Certain materials that can be used with sprayers may cause skin irritation if they come in direct contact with skin.</li></ul>	<ul style="list-style-type: none"><li>• Always use a face mask/respirator and protective clothing when spraying.</li><li>• Always read the label or Safety Data Sheet (SDS) for the materials and/or chemicals before spraying to determine if they pose a risk of cause skin irritation.</li></ul>
<ul style="list-style-type: none"><li>• This tool is capable of spraying flammable materials which can result in fire or explosion.</li></ul>	<ul style="list-style-type: none"><li>• Never operate sprayer in the vicinity of open flame or near ignition sources (pilot lights, cigarettes, portable electric lamps, etc).</li><li>• Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.</li><li>• Work in a clean, well-ventilated area free of combustible materials.</li><li>• Ground all equipment in the work area.</li></ul>

### **WARNING** RISK OF EYE OR HEAD INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"><li>• Tool attachments can become loose or break and fly apart, becoming projectiles or propelling other objects at the operator or bystanders in the work area.</li></ul>	<ul style="list-style-type: none"><li>• Make sure all attachments are properly assembled and securely fastened before use.</li><li>• Always use the tool at a safe distance from others in the work area. Maintain awareness of work area safety at all times.</li></ul>

### **WARNING** RISK OF LOSS OF HEARING

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"><li>• Exposure to noise produced by this tool can lead to permanent hearing loss.</li></ul>	<ul style="list-style-type: none"><li>• Always wear ANSI S3.19 hearing protection.</li></ul>

### **WARNING** RISK OF FIRE OR EXPLOSION

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"><li>• This tool is capable of generating sparks which can result in ignition of flammable materials.</li></ul>	<ul style="list-style-type: none"><li>• Work in a clean, well-ventilated area free of combustible materials.</li><li>• Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.</li><li>• This tool is not recommended for use in explosive atmospheres or underwater.</li></ul>



## SAFETY INFORMATION

### **WARNING** RISK OF FIRE OR EXPLOSION

#### WHAT COULD HAPPEN

- This tool is capable of generating sparks which can result in ignition of flammable materials.

#### HOW TO PREVENT IT

- Wiping or cleaning rags and other flammable waste materials that may have been used on the tool must be placed in a tightly closed metal container, and disposed of in a proper manner.
- Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- Do not spray or clean with flammable liquids. For use with water-based liquids only.
- Do not spray or clean with liquids having a flash point less than 38°C (100°F).
- 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 assembly, 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.
- Do not use a paint or a solvent containing halogenated hydrocarbons. See operating instructions for examples of these types of materials.
- 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 smoke in the spray area.
- 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 Safety Data Sheet (SDS) 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.

## SAFETY INFORMATION

<b>⚠ WARNING RISK OF ENTANGLEMENT</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"><li>• Tools and hoses can become entangled in hair, clothing, jewelry and other loose objects, resulting in severe injury.</li></ul>	<ul style="list-style-type: none"><li>• Remove any jewelry or loose objects which may become entangled with the tool.</li><li>• Always keep hands and body parts away from discharge.</li><li>• Always wear properly fitted clothing and other properly fitted safety equipment when using tools.</li></ul>

<b>⚠ WARNING RISK OF CUT OR BURNS</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"><li>• Sprayers are capable of causing serious injury if operated in an improper way, or used in a manner which is not intended for the tool.</li></ul>	<ul style="list-style-type: none"><li>• Keep the working part of the tool away from hands and body. Never aim or spray at yourself or anyone else.</li></ul>

<b>⚠ WARNING RISK OF ELECTRIC SHOCK</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"><li>• Improper connection of the equipment-grounding conductor can result in a risk of electric shock.</li></ul>	<ul style="list-style-type: none"><li>• All wiring, electrical connections, and system grounding must comply with the National Electrical Code (NEC) and with any local codes and ordinances. A qualified electrician should be consulted if there is any doubt as to whether an outlet box is properly grounded.</li><li>• Do not expose to rain; store indoors.</li><li>• A ground fault interrupter (GFI) protected circuit is recommended for all outdoor electrical devices.</li><li>• Keep motor operating area as dry as possible.</li><li>• Always disconnect the power before servicing.</li></ul>

<b>⚠ WARNING RISK OF PERSONAL INJURY</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"><li>• An unattended tool could be activated by unauthorized/untrained persons, leading to their injury or injury to others.</li></ul>	<ul style="list-style-type: none"><li>• Keep tool out of reach of children and NEVER allow children to handle equipment or tool.</li></ul>
<ul style="list-style-type: none"><li>• This tool can propel liquids, loose/broken accessories or other objects throughout the work area.</li></ul>	<ul style="list-style-type: none"><li>• Maintain awareness of work area safety at all times. Always be aware of other people around the work area to ensure safety.</li><li>• Use only parts, fasteners and accessories recommended by the manufacturer.</li></ul>

<b>⚠ WARNING RISK OF PERSONAL INJURY</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>• This tool can propel liquids, loose/broken accessories or other objects throughout the work area.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not attempt to stop leaks with any body parts. If machine is leaking, turn off and unplug, and set to the prime position.</li> <li>• Keep work area clean, free of clutter and well lit. Do not allow children to operate any tool, and keep children away from work areas.</li> </ul>
<ul style="list-style-type: none"> <li>• High pressure spray is able to inject paint and other toxins into the body, which can cause serious injury and/or death.</li> </ul>	<ul style="list-style-type: none"> <li>• If spray is injected in body, seek immediate medical attention.</li> <li>• ALWAYS use nozzle tip guard when spraying with spray gun.</li> <li>• ALWAYS engage trigger lock when not spraying, or before moving item to prevent accidental spraying.</li> <li>• Do not aim the gun at or spray any person or animal.</li> <li>• Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.</li> <li>• Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.</li> <li>• Only use a nozzle tip specified by the manufacturer.</li> <li>• 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.</li> <li>• Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.</li> <li>• 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.</li> <li>• Check hoses and parts for signs of damage. Replace any damaged hoses or parts.</li> <li>• This system is capable of producing 3,000 PSI. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of 3,000 PSI.</li> <li>• Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.</li> <li>• Verify that all connections are secure before operating the unit.</li> <li>• Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.</li> </ul>

# SAFETY INFORMATION

 <b>WARNING RISK OF PERSONAL INJURY</b>	
<b>WHAT COULD HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>• Wrenches and adjusting keys that are left attached to the tool may fly off and increase the risk of personal injury.</li> </ul>	<ul style="list-style-type: none"> <li>• Always remove and secure adjusting keys and wrenches before operating the tool.</li> </ul>
<ul style="list-style-type: none"> <li>• This tool can become activated by accident while being handled, during accessory changes, tool changes, maintenance or repair.</li> </ul>	<ul style="list-style-type: none"> <li>• Disconnect the tool from the power supply during accessory changes, tool changes, maintenance or repair.</li> <li>• Never carry the tool by the hose or power cord.</li> <li>• Always carry the tool by the handle.</li> <li>• Avoid unintentional operation. Never carry the tool with the trigger depressed or engaged. Do not lock, tape or wire the trigger for continuous operation.</li> <li>• Only an authorized service representative should do repair servicing.</li> </ul>
<ul style="list-style-type: none"> <li>• Extension cords and hoses may present tripping hazards.</li> </ul>	<ul style="list-style-type: none"> <li>• Be aware of excess hose, electrical power sources and other obstacles or hazards in the work area.</li> </ul>
<ul style="list-style-type: none"> <li>• Loss of control of the tool can lead to operator injury or injury to others in the work area.</li> </ul>	<ul style="list-style-type: none"> <li>• Never operate tools while using drugs or alcohol.</li> <li>• Do not overreach or stretch to operate the tool.</li> <li>• Keep proper footing at all times when handling tools. Slipping, tripping and/or falling are major causes of serious injury and or death.</li> <li>• Keep tool handles dry, clean and free from oil/grease.</li> <li>• Stay alert. Watch what you are doing. Use common sense. Do not operate tools when you are tired.</li> <li>• Operators must be able to easily handle the entire weight of the tool in operation, to maintain full control of the tool 100% of the time.</li> </ul>
<ul style="list-style-type: none"> <li>• There is a risk of bursting if the tool is damaged.</li> <li>• Poor quality, improper or damaged attachments can detach or fly apart during operation, sending projectiles through the work area and causing serious injury.</li> </ul>	<ul style="list-style-type: none"> <li>• Check for misalignment or binding of parts, broken parts and other conditions that affect safe tool operation.</li> <li>• Always use paint sprayer on a level, stable surface.</li> <li>• Never use a tool which has been dropped, damaged or appears to malfunction. Never use tools which are leaking or have missing parts. Remove damaged or malfunctioning tools from the workplace immediately.</li> <li>• Do not use pressure exceeding the recommended operating pressure of the lowest rated system component (hoses, fittings, etc.)</li> <li>• Do not modify tools or attachments.</li> <li>• Always follow assembly, operation, maintenance and repair instructions.</li> </ul>

## SAFETY INFORMATION

 <b>WARNING</b> RISK OF PERSONAL INJURY	
WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Improperly maintained tools and accessories can cause serious injury.</li> </ul>	<ul style="list-style-type: none"> <li>Maintain the tool and accessories with care. Do not abuse hoses or connectors.</li> <li>Keep hoses away from heat, oil and sharp edges. Always check hoses for weak or worn connections before each use and make certain that all connections are secure.</li> <li>Do not kink or over-bend the hose.</li> <li>Do not use the hose as a strength member to pull or lift the equipment.</li> </ul>
<ul style="list-style-type: none"> <li>Using an accessory not intended for a specific tool increases the risk of injury to the operator and everyone else in the work area.</li> </ul>	<ul style="list-style-type: none"> <li>Always use accessories and attachments designed for the tool and the work at hand. Do not improvise or modify tools or accessories.</li> </ul>
<ul style="list-style-type: none"> <li>Repetitive motions, awkward positions and exposure to vibration can be harmful to hands and arms.</li> </ul>	<ul style="list-style-type: none"> <li>Discontinue use of tool if discomfort, tingling feeling or pain occurs. Consult a physician before resuming use if any of these symptoms occur.</li> </ul>

 <b>WARNING</b> INHALATION HAZARD	
WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Paint spraying tools generate paint vapors which can be harmful to the lungs and respiratory system.</li> </ul>	<ul style="list-style-type: none"> <li>Always wear a properly fitting facemask or respirator rated for the application when using such tools.</li> </ul>
<ul style="list-style-type: none"> <li>Some materials give off vapors which could cause serious injury with prolonged exposure.</li> </ul>	<ul style="list-style-type: none"> <li>Always work in a clean, dry, well-ventilated area. Be aware of chemicals in the work area and read all Safety Data Sheets (SDS) for the materials and/or chemicals that may be present.</li> </ul>

## PREPARATION

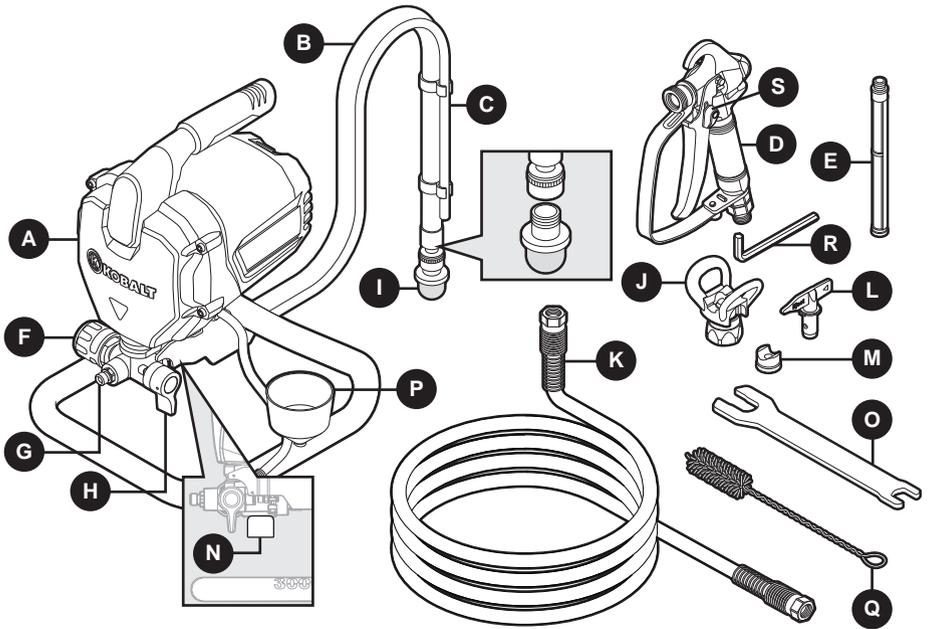
Before beginning assembly of product, make sure all parts are present. Compare parts with package contents list. If any components which are listed are missing, please contact 1-888-356-2258 for a missing parts request. **DO NOT** use the item if parts are missing.

**Estimated Assembly Time:** 25-30 minutes

Tools Recommended for Operation (not included): 5 gallon utility bucket, paint strainer, latex gloves, respirator or dust mask, ANSI approved safety glasses or goggles, paint drop cloth

Tools Recommended for Cleaning (not included): Three to four 5 gallon buckets, soft (non-wire) bristle brush, cleaning rags, clean water, paint drop cloth, plastic bag, rubber band, respirator or dust mask, ANSI approved safety glasses or goggles, corrosion resistant fluid / long-term storage fluid (for use during long-term storage periods)

## UNDERSTANDING AIRLESS PAINT SPRAYER COMPONENTS



1. The *suction tube* (B) draws material for spraying from the container holding the material.
2. The *prime tube* (C) dispenses material during the flushing, priming, and cleaning stages. It must remain in the waste pail during use.
3. The *inlet screen* (I) serves as a strainer for the material to be sprayed. The inlet screen can be removed to allow for outdoor garden hose connection during flushing and cleaning.
4. The *pressure control knob* (F) controls pressure/PSI. Adjusting this knob regulates the flow rate of material.
5. The *prime spray valve switch* (H) directs the output of material to the prime tube or the spray gun.
6. The *spray gun housing* (D) consists of a spray guard (J), spray tip (L), internal gun filter (E), and single seal tip (M).
7. The *spray guard* (J) holds the spray tip (L) and allows for change of spray pattern direction.
8. The *spray tip* (L) orifice size determines the flow rate. Included are two tips: 513 and 517.

### Selecting Proper Spray Tip Size

This tool comes with two spray tip sizes (513 and 517). The lifespan of a spray tip varies depending on the types of materials being sprayed, and how well the tip is cleaned after each use. With proper maintenance, spray tips generally can spray 15 to 40 gallons before needing to be replaced.

It is recommended to use the below coating selection diagram to best select the proper tip size you intend to use for your particular spraying application. Please consult your local retailer if you are unsure of the proper tip size which should be used.

## UNDERSTANDING AIRLESS PAINT SPRAYER COMPONENTS

Coating Selection						
Tip Hole Size (expressed as diameter, based on area of elliptical orifice)	Stains	Enamels	Oil-based primers and paints	Interior latex paints	Exterior latex paints	Acrylics
0.011 in. (0.28 mm)	X					
0.013 in. (0.33 mm)	X	X	X	X		
0.015 in. (0.38 mm)		X	X	X	X	
0.017 in. (0.43 mm)			X	X	X	X
0.019 in. (0.48 mm)					X	X

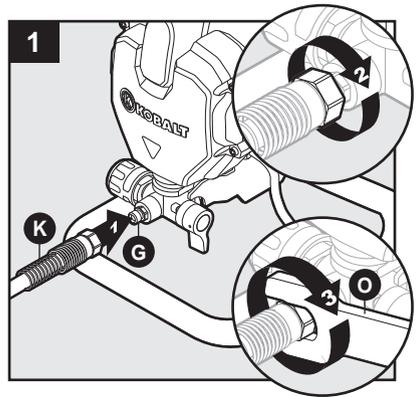
- Tip size **513** – Designed to be used with lighter materials; mostly stains, lacquers and enamels, along with some lighter oil-based paints.
- Tip size **517** – Designed to be used with paint and acrylics (both oil based and latex).

**Note: ALWAYS** use a spray tip nozzle size that has a lower flow rate than the maximum flow rate of the paint sprayer. Heavier materials will require a larger tip size. Lighter materials such as stains and enamels may require a smaller tip size. Most spray material labels indicate the suggested or recommended tip size for proper spraying. If you are uncertain which tip size is correct, consult your local retailer for additional assistance.

## ASSEMBLY INSTRUCTIONS

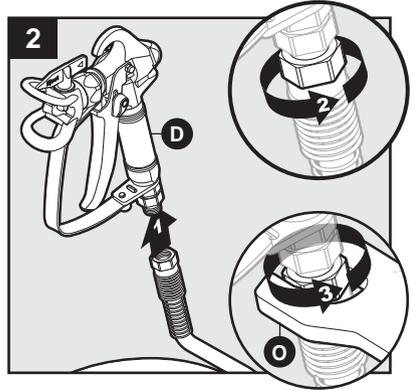
### SETUP

1. Connect high pressure fluid hose (K) to fluid outlet (G). Hand tighten, making sure connections are properly secure. Fully tighten using wrench (O).



## ASSEMBLY INSTRUCTIONS

2. Connect other end of high pressure fluid hose (K) to spray gun housing (D). Hand tighten, making sure connections are properly secure. Fully tighten using wrench (O). Be sure to use the correct spray tip (L) for the particular painting application. See table on "Coating Selection" to determine the proper tip size.

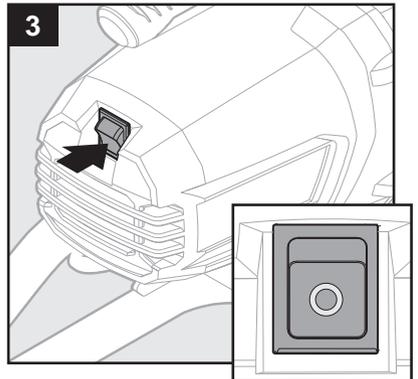


Before beginning any painting project, it is recommended to first prime the sprayer and flush out any fluid that may have been trapped or stuck inside the hose. Make sure to wear proper ANSI approved safety glasses or ANSI approved safety goggles for protection. **NEVER** point the spray nozzle at anyone at any time. **NEVER** put any body parts in front of spray gun at any time.

**Note:** The manufacturer has added a lightweight coating of oil to protect the motor and internal components during the initial shipment of product. For first time use, you must prime and flush the paint sprayer to prevent any oil debris from contaminating your paint and/or stain. Proper maintenance after each use is essential for optimal performance. It is recommended that the airless paint sprayer be cleaned thoroughly after each use. See cleaning instructions for more details.

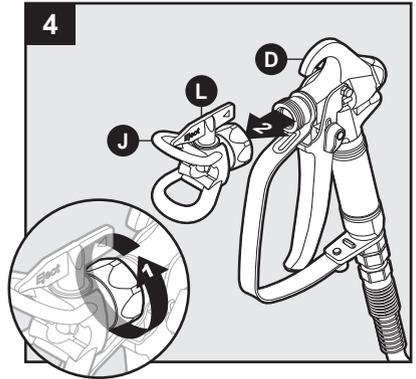
### FLUSHING

3. Make sure power switch is turned off.

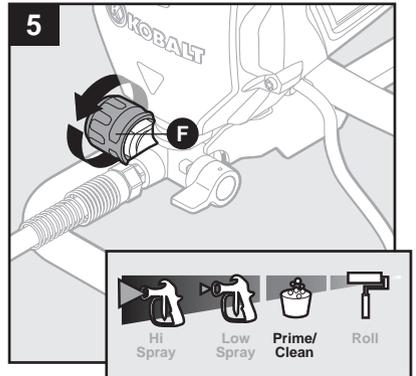


## ASSEMBLY INSTRUCTIONS

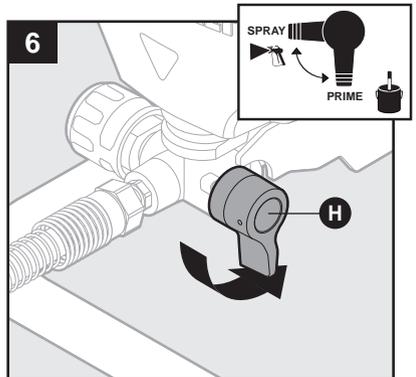
4. Turn nut on spray guard (J), then remove spray guard (J) and spray tip (L) from spray gun housing (D).



5. Adjust pressure control knob (F) to lowest PSI (below roll) by turning counterclockwise.

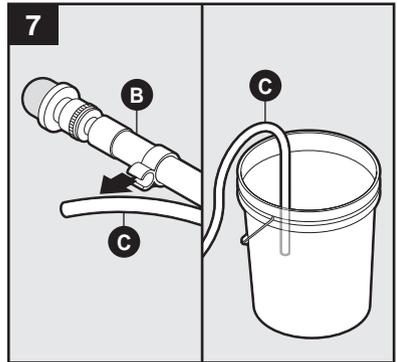


6. Turn prime spray valve switch (H) to prime position.



## ASSEMBLY INSTRUCTIONS

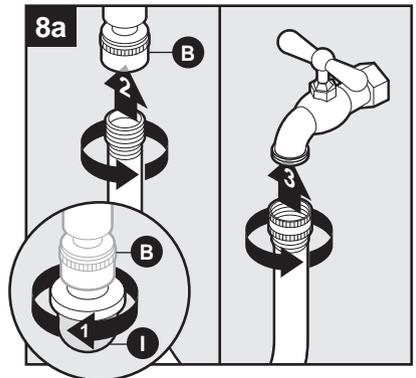
7. Separate prime tube (C) from suction tube (B) and place prime tube (C) into a waste pail.



8a. **For Water-Based Paint:**

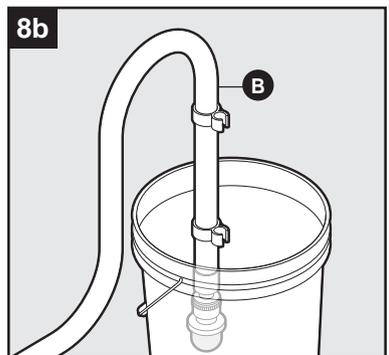
If outdoor garden hose connection with water supply is available, unscrew inlet screen (I) turning clockwise at the end of the suction tube (B). Connect the suction tube to garden hose end (not included) and tighten turning counterclockwise. Connect the other end of garden hose (not included) to water spigot and tighten by turning counterclockwise.

**Note:** If garden hose connection is unavailable, follow Step 8B and use water instead of cleaning solvents.



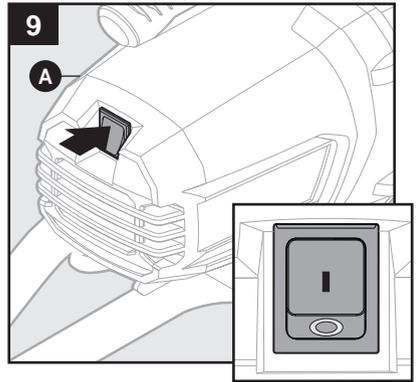
8b. **For Oil-Based Paint:**

Place suction tube (B) in mineral spirits or other compatible cleaning solvents (not included). Consult local retailer if unsure which mineral spirits or cleaners are compatible with particular oil-based paint.

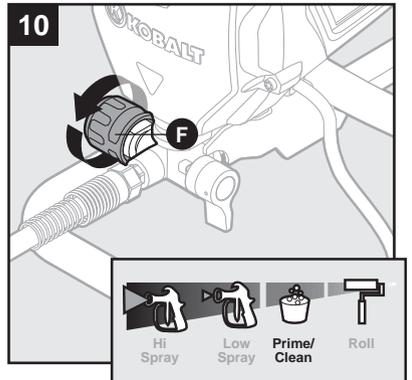


## ASSEMBLY INSTRUCTIONS

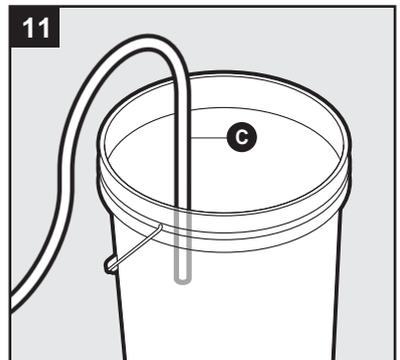
9. Plug airless paint sprayer (A) into grounded outlet.



10. Slowly turn pressure control knob (F) clockwise to prime/clean position.

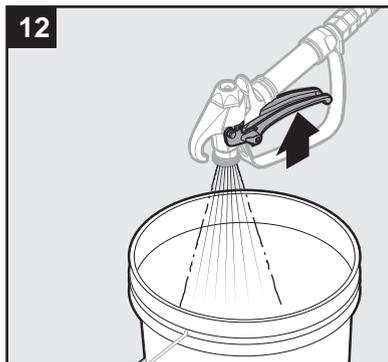


11. Once motor is running, allow fluid to flow through sprayer system and out through the prime tube (C) into a waste pail for at least 45 seconds. This flushing will remove any debris or oil in the system.

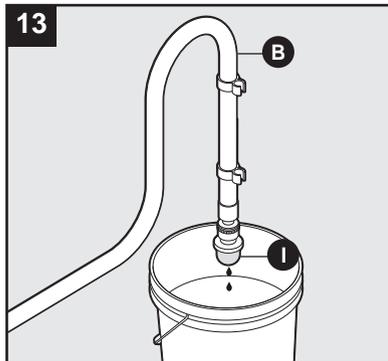


## ASSEMBLY INSTRUCTIONS

12. Once flushed fluid is clear, turn pressure control knob (F) to the lowest pressure setting, and turn off power switch. See Figure 5. Turn prime spray valve switch (H) to spray position. See Figure 6. Slowly turn pressure control knob (F) to clockwise to prime/clean position. See Figure 10. Once motor is running, squeeze trigger and allow fluid to run through spray system and out through the spray gun (D) for at least 45 seconds. See Figure 12. Once flushed fluid is clear, turn pressure control knob (F) to the lowest pressure setting, and turn off power switch. See Figure 5.



13. Remove suction tube from spigot, clean water, or flushing fluid. See Figure 13. If inlet screen (I) was removed during flushing process, reattach inlet screen to suction tube and turn counterclockwise to tighten. See Figure 13.

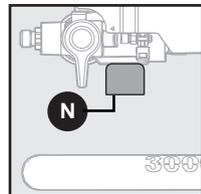


## OPERATING INSTRUCTIONS

### PRIMING SPRAYER WITH PAINT

**Note:** Before beginning any paint project, properly stir paint and/or strain paint to make sure any contaminants or debris are thoroughly removed to avoid clogging the spray tip. Check to make sure the color is correct. The pressure release button (N) is designed to allow the user to release suction in the system at times of an emergency. It is not intended to be used as a regular form of releasing suction in the sprayer system.

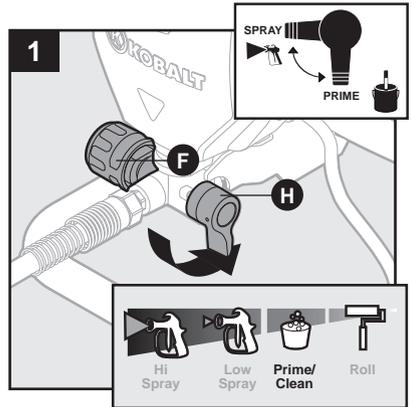
**!** Wear protective gear, goggles, latex gloves, and respirator or dust mask when using equipment.



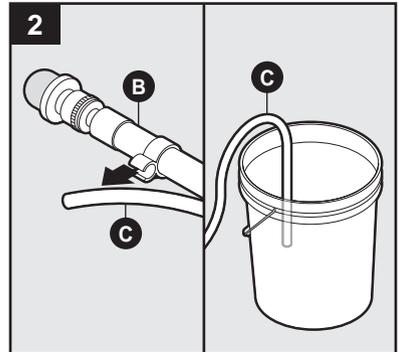
## OPERATING INSTRUCTIONS

Turn pressure control knob (F) to the lowest pressure setting.

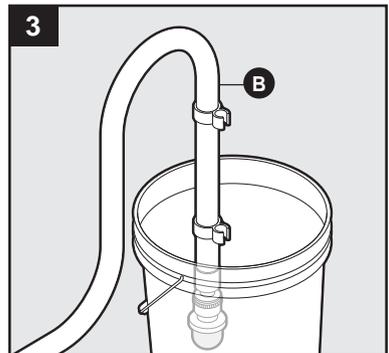
1. Turn prime spray valve switch (H) to prime position, releasing the pressure in the machine (See Figure 1).



2. Separate prime tube (C) from suction tube (B) and place prime tube into a waste pail (See Figure 2).

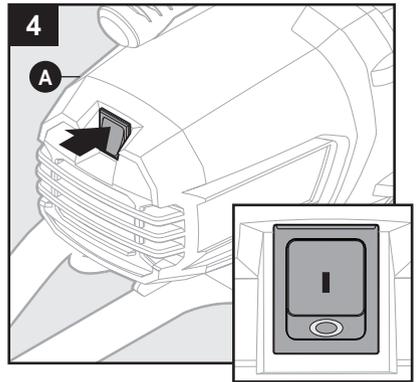


3. Place suction tube (B) into paint bucket (See Figure 3).

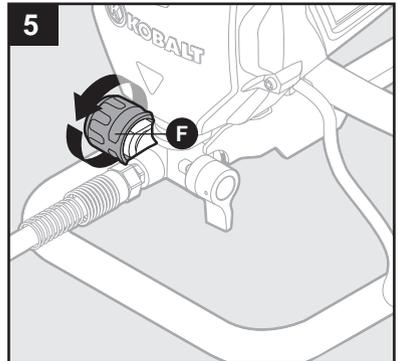


## OPERATING INSTRUCTIONS

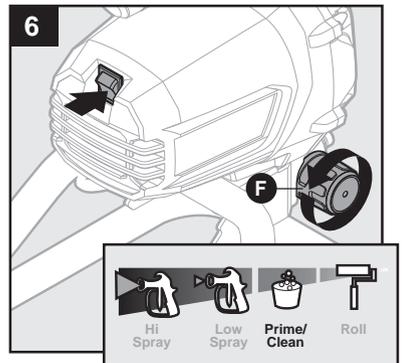
4. Turn on power switch.



5. Slowly turn pressure control knob (F) clockwise until motor begins to run.  
Allow paint to flow through sprayer system and out through the prime tube (C) for 15 seconds.

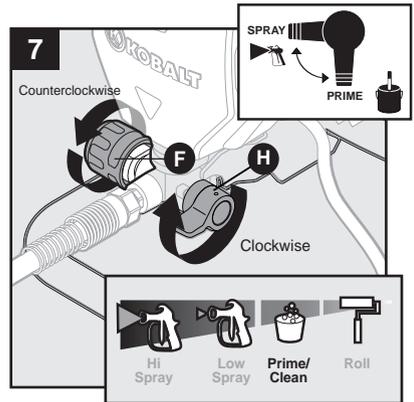


6. Turn down pressure control knob (F) and turn off sprayer.

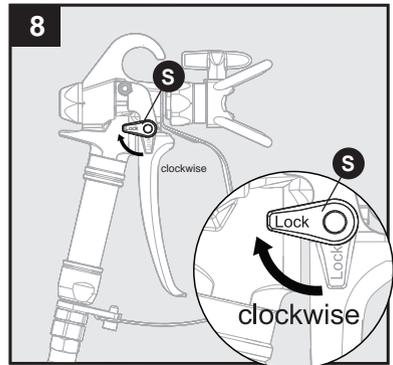


## OPERATING INSTRUCTIONS

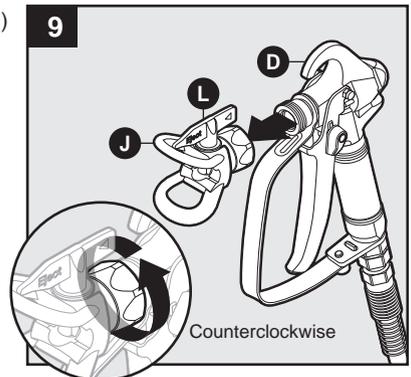
7. Turn prime spray valve switch (H) to spray position.  
Adjust pressure control knob (F) to lowest PSI (below roll).



8. Turn safety lock (S) on spray gun to locked position.

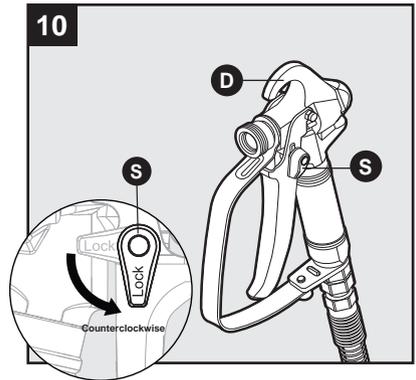


9. Turn nut on spray guard (J) then remove spray guard (J) from spray gun.



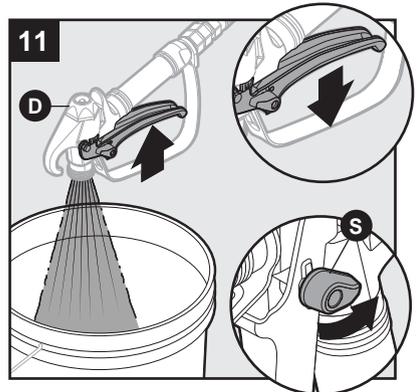
## OPERATING INSTRUCTIONS

10. Unlock the safety lock (S).

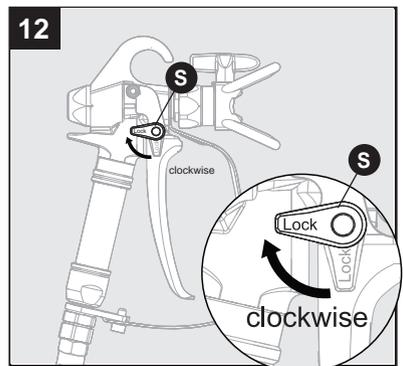


11. Turn power switch on.

Slowly, turn pressure control knob (F) clockwise until motor begins to run or until prime/clean setting. Release the trigger while the paint sprays into the waste pail. Let the paint run for 15 seconds. Let go of trigger. Turn pressure control knob (F) down to the lowest setting. Turn off power switch.

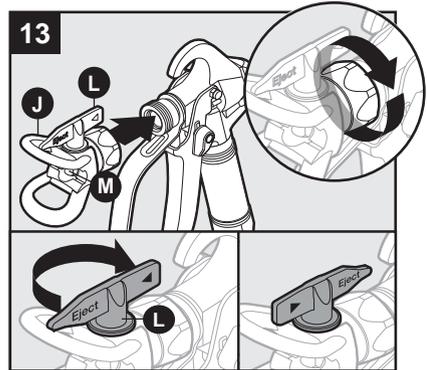


12. While connecting spray guard (J), spray tip (L) and single seal tip (M), make sure the safety lock (S) is locked.

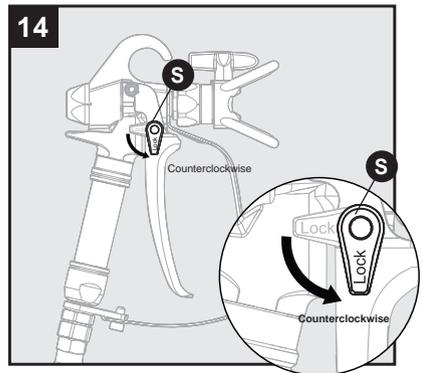


## OPERATING INSTRUCTIONS

13. Reconnect spray guard (J), spray tip (L) and single seal tip (M) making sure connection is properly secured. Adjust the spray tip (L) so the arrow on tip housing is backwards, and unlock the safety lock (S). Continue spraying into waste pail 5-10 seconds to make sure the hole in the tip is not jammed.

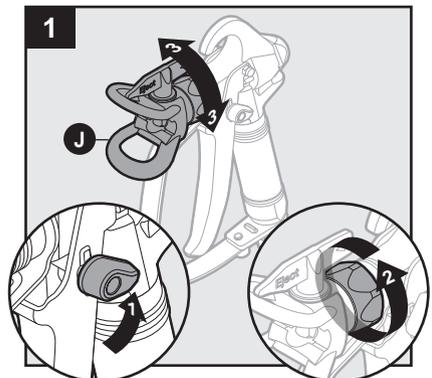


14. Adjust the spray tip (L) so the arrow on the housing is facing forward. The sprayer is now primed and ready for use.



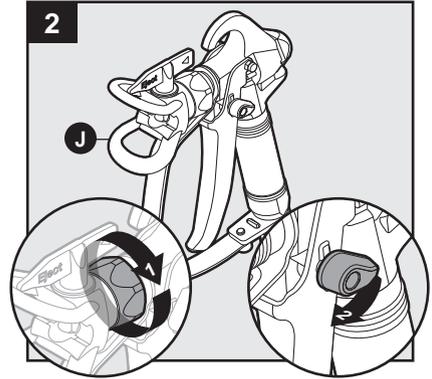
### Adjusting Spray Pattern Vertical Or Horizontal Spray

1. To adjust spray angle, set safety lock to locked position. Loosen nut on spray guard (J). Turn spray guard to vertical or horizontal position. Position spray tip at the top of the housing for horizontal pattern. Turn housing 90° so that spray tip is positioned along the side for vertical pattern.



## OPERATING INSTRUCTIONS

- Hand tighten nut on spray guard (J). Unlock safety lock and continue to spray.



## SPRAYING TECHNIQUES

Before you begin, clean the surface area to remove any debris or dirt buildup for optimal results. Protect and cover any surfaces that you do not intend to spray.

### How to Set Proper Spray Pattern

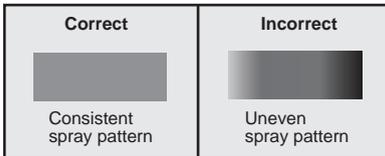
If you do not have much experience using a paint sprayer, practice by using water and spraying on a flat surface. Before spraying with paint, make sure the sprayer has been flushed of any water in the system and that the surface is completely dry.

### Spray Pattern

A good spray pattern results when paint is applied consistently and evenly to the surface without any runs in the pattern, which occurs when too much or too little paint is sprayed in a single area. To properly set your spray pattern, start the sprayer at the lowest possible PSI pressure setting and gradually increase the PSI pressure setting until you reach an even and consistent spray pattern.

### Proper Spray Diagram

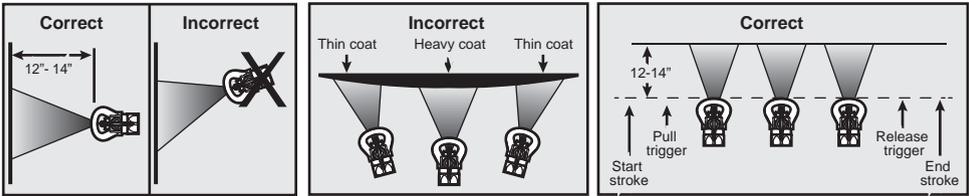
Increase pressure until you achieve the correct full even spray pattern.



**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.

## SPRAYING TECHNIQUES

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



**DO NOT** try to increase the spray coverage area by holding the spray gun further away from the surface being sprayed. If held further away than 12-14 inches, less paint will reach the surface and more paint will be wasted as overspray (spray that does not properly get sprayed to the spraying surface).

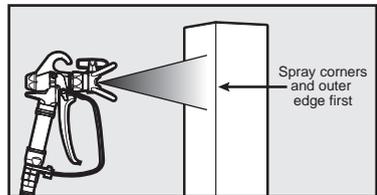
### Proper Coverage

- Before you begin, make sure you understand the technique for proper spraying application.
- Make sure your arm is moving before squeezing and before releasing the trigger on the spray gun as not doing so will increase the chance for paint build up or inconsistent spraying in certain areas.

**Note:** Practice may be needed to make sure that you are able to achieve the proper technique before spraying the surface area you intend to paint.

For bare walls and other flat surfaces, spray the outer edges of the paint surface first, and only in areas that can easily be reached. Work from the top to the bottom in a consistent and even motion. Once the outer edges are properly covered, begin working your way toward the middle of the surface, remembering to spray from top to bottom.

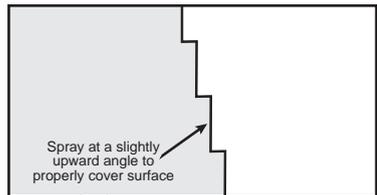
1. Spray the first row making sure to follow the proper trigger squeezing technique.
2. Once the first row is sprayed, spray the second row overlapping the previous row by 50% to provide consistent paint coverage through each passing row.
3. When spraying, keep arm motion movements, angle of spraying, and speed at which you spray across the surface as consistent as possible.



Repeat the above process until you have reached the bottom of the surface you intend to paint.

**Note:** When working on outside structures or where there is an eave or overhang, properly cover the eave or overhang before spraying the surface area you wish to paint.

When painting outdoor structures, spray horizontally. When spraying moulding or surfaces which are uneven (siding), first look at the surface area and adjust your spray angle to properly cover areas in which paint may be difficult to reach.



Removal of any pre-spray preparation materials should only be done after the sprayed surface has had adequate time to properly dry. Please reference your materials supplier's recommendations on how much time is needed for properly drying. Removal of any pre-spray preparation materials before surface is completely dry can affect the outcome of the sprayed surface area.

## CARE AND MAINTENANCE

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**ALWAYS** wear proper eye protection during cleanup process.

Tools Recommended for Cleaning (not included): Three to four 5 gallon buckets, soft (non-wire) bristle brush, cleaning rags, clean water, paint drop cloth, plastic bag, rubber band, respirator or dust mask, ANSI approved safety glasses or goggles, corrosion resistant fluid (for after use storage)

This device is designed to work with water-based and oil-based paints, as well as stains. Use these cleaning solvents for proper cleaning:

- Latex-based paint – water
- Oil-base – Soapy water/mineral spirits
- Stain/lacquer – Lacquer thinner or other mineral spirits

### **CLEANING INSTRUCTIONS: Temporary Break (Under 48 hours)**

**Note:** Use a drop cloth or other material to protect the paint from debris while not in use so that when starting back after taking a break, you may use the same paint.

1. Leave suction tube and prime tube submerged in paint.
2. Relieve pressure in spray system by turning the prime spray valve switch from the spray position to the prime position.
3. Power off the machine.
4. Place only the tip of the gun into a pail of water or mineral spirits (depending on the material you are using) to prevent buildup of paint and/or debris.
5. Before starting the following day (less than 48 hour period) clean just the tip of gun with a non-wire bristle brush.

**Note:** If using water-based paint, leave the tip of the gun in water only for a short period of time (under 48 hours). Exposure to water for an extended period of time can be corrosive to the internal components of the nozzle and spray gun. Clean the tip of the gun with water or mineral spirit with a small non-wire brush and wipe gun clean before using. After the temporary break, **ALWAYS** test spray an area to ensure the gun is not clogged before continuing.

### **GENERAL PAINT CLEARING/CLEANING INSTRUCTIONS : Break over 48 hours and/or Long Term Storage**

There are three main stages for properly cleaning and maintaining your sprayer. If changing paints or taking a break longer than 48 hours and planning to continue painting, follow Stages 1 and 2 of the cleaning process.

Stage 1: Clearing Excess Paint

Stage 2: Cleaning Sprayer and Components Before Storage

Stage 3: Long-Term Storage – For proper long-term storage of this machine, specific long-term storage fluid material(s) (mineral oil or anti-corrosion fluid) is recommended, but not included. Please consult your local retailer for additional information on the long-term storage fluid best suited for proper storage and care and maintenance of the sprayer.

When paint project is completed and you are ready to store sprayer for an extended period, complete Stage 3. Stage 3 is an additional step which is required for your machine to operate properly.

## CARE AND MAINTENANCE

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### Water-Based Paint:

Follow cleaning stages exactly and use water to properly flush out and clean the sprayer. For long-term storage, consult your local retailer for additional information on the long-term storage fluid best suited for your sprayer.

### Oil-Based Paint:

Follow cleaning stages exactly. When cleaning after using oil-based paint or stains, using mineral spirits or a cleaning mixture is recommended. Consult your local retailer for additional information on the cleaning solvent materials best suited for proper cleaning. Consult your local retailer for additional information on the long-term storage fluid best suited for your sprayer. If mineral spirits or thinner is used, brush components clean and thoroughly rinse with clean water to prevent seals from drying out.

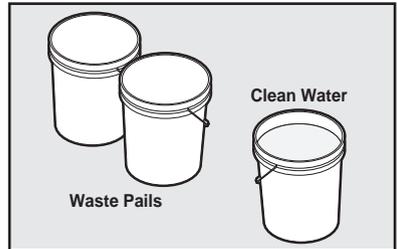
### STAGE 1: Clearing Excess Paint

Flush any remaining paint or stain from the sprayer into waste pails to clear excess paint from the system.

**Note:** If outdoor garden hose connection with water supply is available, unscrew inlet screen (I) turning clockwise at the end of the suction tube (B). Connect the suction tube to garden hose end (not included) and tighten turning counterclockwise. Connect the other end of garden hose (not included) to water spigot and tighten by turning counterclockwise. If no garden hose connection is available, use water in a 5 gallon bucket.

### Removing Excess Paint from Prime Tube

1. Relieve the pressure by turning prime spray valve switch (H) to prime position.
2. Turn power switch off. Set safety lock to locked position.
3. Turn pressure control knob (F) clockwise to prime/clean position.
4. Fill one 5 gallon bucket with clean water. Place suction tube (B) in clean water bucket.
5. Set two empty buckets, side by side, next to the clean water bucket. These two buckets are the waste pails.
6. Place prime tube (C) in waste pail.



**NEVER** let the clean water bucket run out of clean water.

7. Turn power switch on and allow excess paint to flow out of prime tube (C) into waste pail.
8. Allow motor to continue to run, allowing at least 2 gallons or more of water to flush through the system.
9. Once flushed, turn power switch off, reconnect prime tube (C) to suction tube (B), and make sure both tubes are in the clean water bucket.

## CARE AND MAINTENANCE

**Note:** Completely refill clean water bucket after completing “Removing Excess Paint from Prime Tube” and before proceeding to “Removing Excess Paint from High Pressure Spray Hose”.

### Removing Excess Paint from High Pressure Spray Hose

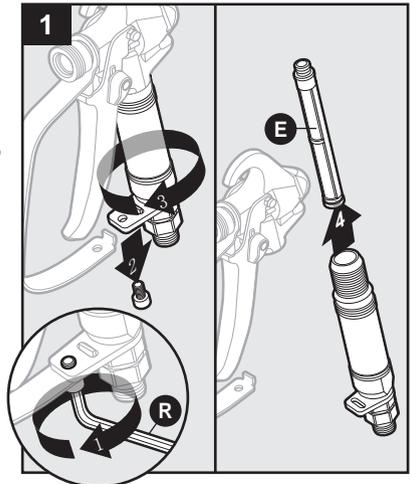
1. Make sure safety lock is in locked position.

**Note:** Remove spray guard (J), single seal tip (M), and spray tip (L). Unscrew safety screw at base of handle housing using hex key (R) to release handle housing, making the cleaning process easier. Set aside for additional cleaning (see “Cleaning Sprayer and Components Before Storage”).

2. Fill clean water bucket and turn prime spray valve switch (H) to spray position.
3. Turn pressure control knob (F) to prime/clean position.
4. Unlock safety lock and place the spray gun over waste pail.
5. Depress trigger on spray gun **BEFORE** turning the machine on. This will decrease the possibility of high pressure buildup in the system and any overspray.
6. Continue squeezing trigger and turn power switch on. Allow excess paint to flow out of the spray gun.
7. **DO NOT** release the trigger. The trigger should remain depressed, allowing water to continuously spray.
8. Allow motor to continue to run, allowing at least 2 gallons or more of water to flush through the system.
9. Once flushed, release trigger, and turn the prime spray valve switch (H) to prime position.

### STAGE 2: Cleaning Sprayer and Components Before Storage

1. Fill 5 gallon bucket with water.
2. Unscrew spray gun handle turning counterclockwise to remove internal filter (E) from the handle as shown in Figure 1.
3. (Spray guard should already be removed from spray gun housing.) Using the pointed eject end of the spray tip (L), press against the single seal tip (M) to remove it from the spray tip housing as shown in Figure 2.
4. Thoroughly clean the single seal tip (M), the spray tip (L), the internal filter (E), as well as the threading and head of spray gun with cleaning brush (Q) removing any paint, stain, or debris. Set components aside and allow to dry.

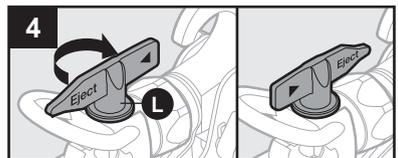
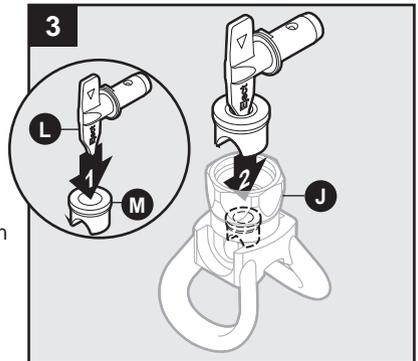
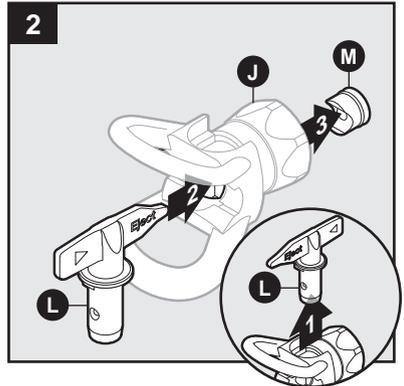


## CARE AND MAINTENANCE

- Using cleaning brush (Q), thoroughly brush suction tube (B), inlet screen (I), and prime tube (C) until all heavy paint or stain residue is removed.
- After components have dried, insert the single seal tip into the spray guard housing with the metal end facing down. Using the pointed eject end of the spray tip, press against the rubber opening of the single seal tip until it fits perfectly into the housing, as shown in Figure 3.
- Insert the spray tip (L) into the opening of the spray gun housing, making sure the orifice is facing forward.
- Screw the spray guard (J) to the spray gun housing by turning counterclockwise. Tighten by hand until the single seal tip (M) is secure.
- Re-insert clean internal gun filter (E) into spray gun handle.
- Tighten safety screw at base of handle housing using hex key (R).
- Set prime spray valve switch (H) to prime/clean position.
- Place prime tube (C) into waste pail.
- Turn power switch on and allow water to flow through spray system until water coming out of prime tube (C) is clear.

Note: It may take several gallons of water depending on the type of paint used. Continue to refill clean water bucket as needed.

- Set the prime spray valve switch (H) to the spray position and unlock safety lock on squeeze trigger.
- While placing spray gun over waste pail, depress trigger and turn power switch on.
- While spraying, shake the spray gun to loosen any paint that may be trapped inside.
- With the arrow on the spray tip facing forward, continue spraying for 10-15 seconds. Stop spraying and rotate the spray tip so the arrow is facing the operator, as shown in Figure 4. Spray again for 10-15 seconds. Repeat this several times until the single seal tip is completely cleared.



## CARE AND MAINTENANCE

### STAGE 3: Long-Term Storage

Make sure unit is completely clean by following Stages 1 and 2 of the Care and Maintenance section. For long-term storage of your sprayer, **DO NOT** leave water in the sprayer system. The use of mineral oil or an anti-corrosion fluid (not included) is recommended. Please consult your local retailer for additional information on which long-term storage fluid material(s) (not included) are needed.

1. Make sure safety lock is in locked position, spray valve switch (H) is set to prime position, and the power switch off.
2. Separate prime tube (C) from suction tube (B) and place prime tube (C) into a waste pail.
3. Place suction tube (B) into the anti-corrosion storage fluid (not included).
4. Turn pressure control knob (F) counterclockwise to lowest setting.
5. Turn power switch on and allow the anti-corrosion storage fluid (not included) to be sucked through the sprayer until it comes out of the prime tube (C).
6. Immediately turn power switch off.
7. Unlock safety lock and reconnect prime tube (C) to suction tube (B). Make sure prime tube (C) and suction tube (B) are both in anti-corrosion storage fluid (not included).
8. Point spray gun housing (D) into waste pail and squeeze spray gun housing (D) trigger. Continue squeezing trigger and turn prime spray valve switch (H) to spray position.
9. Turn on power switch. Continue squeezing trigger, allowing the anti-corrosion storage fluid (not included) to be flushed through the high pressure fluid hose (K) and spray gun housing (D).
10. Once the anti-corrosion storage fluid (not included) is spraying, release the trigger, turn power switch off, and set safety lock to locked position.

**Note:** Place a plastic bag (not included) over bottom of the suction tube (B) using a rubber band (not included) to secure the plastic bag. This will catch any fluids which may flow out of the suction (B) or prime (C) tubes during storage.

## TROUBLESHOOTING

If you have any questions regarding the product, please call customer service at 1-888-3KOBALT (1-888-356-2258), 8:00 a.m. - 8:00 p.m., EST, Monday - Friday.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor does not run; sprayer does not spray.	<ol style="list-style-type: none"><li>1. Machine is not plugged in.</li><li>2. Power switch is turned off.</li><li>3. Control knob is set to low position.</li></ol>	<ol style="list-style-type: none"><li>1. Plug into grounded outlet.</li><li>2. Turn power switch on.</li><li>3. Turn pressure control knob clockwise.</li></ol>
Motor is running and trigger is squeezed, but spray gun does not spray.	<ol style="list-style-type: none"><li>1. Pressure control knob is set too low.</li></ol>	<ol style="list-style-type: none"><li>1. Turn pressure control knob clockwise and increase power.</li></ol>
Trigger does not move.	<ol style="list-style-type: none"><li>1. Safety trigger is not on.</li></ol>	<ol style="list-style-type: none"><li>1. Turn safety lock on spray gun housing to unlocked position.</li></ol>

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Pump does not prime.	<ol style="list-style-type: none"> <li>1. Prime spray valve is set to spray position.</li> <li>2. Sprayer is turned off.</li> <li>3. Prime tube is clogged.</li> <li>4. Suction tube is not submerged.</li> <li>5. Inlet screen on suction tube is clogged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set prime spray valve to prime position.</li> <li>2. Turn sprayer on.</li> <li>3. Unclog prime tube.</li> <li>4. Submerge suction tube.</li> <li>5. Check and clear any clogs in inlet screen.</li> </ol>
Sprayer is functioning and spraying, but spray pressure drops while in use.	<ol style="list-style-type: none"> <li>1. Material being sprayed is running low.</li> <li>2. Single seal tip is worn and needs to be cleaned or replaced.</li> <li>3. Spray gun housing may be clogged.</li> <li>4. Internal gun filter may be clogged or not inserted properly.</li> <li>5. Material being sprayed may be too thick.</li> <li>6. Suction tube is not connected properly.</li> <li>7. Suction tube may be damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Add or replace material being sprayed.</li> <li>2. Turn off machine. Remove and inspect single seal tip. Clean and/or replace.</li> <li>3. Clean spray gun housing. Flush spray gun housing clear of any debris.</li> <li>4. Turn off machine. Remove internal gun filter. Check if it is inserted properly and not clogged.</li> <li>5. Check material data sheet from material supplier to make sure single seal tip size is compatible.</li> <li>6. Check suction tube. Reconnect if loose.</li> <li>7. Check suction tube. Replace if damaged.</li> </ol>
Prime spray valve is set, but does not allow proper flow or function.	<ol style="list-style-type: none"> <li>1. Prime spray valve is damaged or connection to prime spray valve is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact local paint repair store or local retailer for suitable replacement components.</li> </ol>
Spray gun housing leaks.	<ol style="list-style-type: none"> <li>1. Incorrect connection with high pressure fluid hose or internal parts are worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check connection with high pressure fluid hose. If connection is correct, contact local paint repair store or local retailer for suitable replacement components.</li> </ol>
Single seal tip and tip housing leak.	<ol style="list-style-type: none"> <li>1. Incorrectly tightened or threaded, or worn single seal tip.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check connection to make sure connection is not misthreaded. Replace if single seal tip is worn.</li> </ol>
Paint pattern is uneven.	<ol style="list-style-type: none"> <li>1. Pressure is not set correctly.</li> <li>2. The inlet screen on the suction tube may be clogged.</li> <li>3. Suction tube connection is loose.</li> <li>4. Material being sprayed is too thick for single seal tip size.</li> <li>5. Single seal tip is worn and needs to be cleaned or replaced.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust pressure on machine so pattern is even/consistent.</li> <li>2. Unclog inlet screen.</li> <li>3. Make sure suction tube is properly connected.</li> <li>4. Check material data sheet to make sure single seal tip is compatible.</li> <li>5. Clean or replace single seal tip.</li> </ol>

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE
Pressure is not building up properly and sprayer is having difficulty spraying properly.	1. Machine has been in use for extended periods of time and/or multiple pressure settings have been set in a short period of time.	1. Press the pressure release button and hold down for 3 seconds, allowing the pressure in the system to be released and to be built up properly.

## WARRANTY

This tool is warranted by the manufacturer to the original purchaser from the original purchase date for ninety (90) days subject to the warranty coverage described herein.

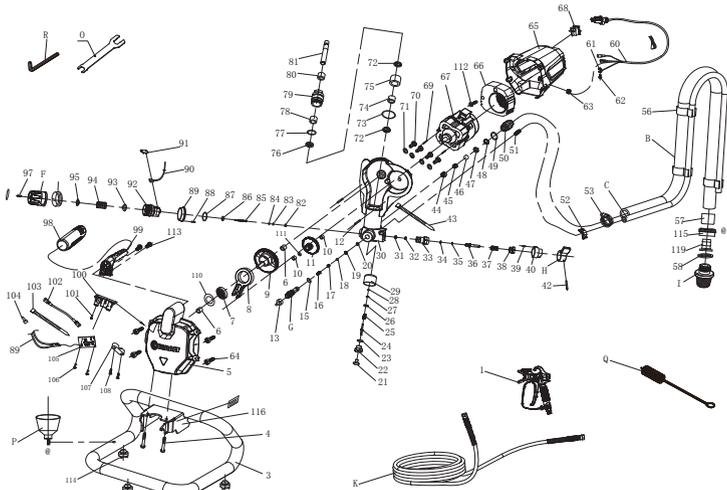
This tool is warranted to the original user to be free from defect in material and workmanship. If you believe that a tool is defective, return the tool, with proper proof of purchase to the point of purchase. If it is determined that the tool is defective and covered by this warranty, the distributor will replace the tool or refund the purchase price.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the use of the tool after partial failure or use with improper accessories of unauthorized repair or alteration.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For warranty questions, call our customer service department at 1-888-3KOBALT, 8:00 a.m. - 8:00 p.m. EST, Monday - Friday.

# EXPLODED VIEW



PART	DESCRIPTION
1	Spray Gun
K	High Pressure Fluid Hose
3	Base Frame
4	Screw M6x25
5	Housing Cover
6	Big Copper Bushing
7	Retainer Ring
8	Connecting Rod
9	Gear Assembly
10	Small Copper Bushing
11	Output Gear Bushing
12	Pin 5x12
13	Screw Thread Rubber
G	Fluid Outlet
15	O-ring (10x1.8)
16	Output Spring
17	Mandrill
18	Steel Ball (Dw=6.4)
19	Seal Seat
20	Output Washer
21	Plunger Handle
22	Plunger Seat
23	O-ring (10x1.5)

PART	DESCRIPTION
24	Plunger Pole
25	Plunger Spring
26	Copper Washer
27	Retainer Ring
28	O-ring (2.4x1.8)
29	Shield
30	Pump Body
31	Plastic Washer
32	Insert Block
33	Pressure Relief Pole
34	Plastic Ring
35	Pressure Relief Valve
36	Thimble
37	Pressure Relief Spring
38	Spring Seat
39	Pin 3x8
40	Control Valve Seat
H	Prime Spray Valve Switch
42	Pin
43	Nylon Rope
44	Inlet Spring Holder
45	Inlet Spring

**EXPLODED VIEW**

<b>PART</b>	<b>DESCRIPTION</b>
46	Steel Ball (Dw=12.7)
47	Input Seat
48	Input Washer
49	O-ring (17x1.8)
50	Paint Input Adaptor
51	Pressure Alu. Joints
52	Lock Ring Components
53	Hose Clamp (16-25)
C	Prime Tube
B	Suction Tube
56	Clip
57	Jacket
58	Foam Gasket
I	Inlet Screen
60	Power Plug
61	Washer D=4.3
62	Screw M4x8
63	Power Supply Seat
64	Hex Screw
65	Housing
66	Fan Cover
67	Motor Assembly
68	Power Switch
69	Pin 3x12
70	Hex Screw M5x14
71	Spring Washer D=5.0
72	Retainer Ring
73	O-ring (22.5x1.8)
74	Retainer Ring Cover
75	Piston Washer
76	Washer
77	O-ring
78	Felt
79	Piston Seat
80	Guide Copper Bushing
81	Piston
82	Lock Sleeve
83	White Seal
84	Black Seal
85	Switch Lever

<b>PART</b>	<b>DESCRIPTION</b>
86	O-ring
87	O-ring (27x2.4)
88	Hex Screw M3x10
89	Cap
90	Micro Switch
91	Micro Switch Cover
92	Adjustable Seat
93	Deflating Cap
94	Pressure Control Spring
95	Spring Pusher
F	Pressure Control Knob
97	Pressure Control Bolt
98	Grip
99	Handle
100	PCB Supporter
101	Hex Bolt M4x10
102	Connector
103	Cable Tie
104	Safety Cap ø5
105	PCB Assembly
106	Hex Bolt
107	Base Board
108	Screw
P	Inlet Screen Holder
110	Washer
111	Gasket
112	Screw
113	Screw
114	Mat
115	Connect Nut
116	Support Components
R	Hex Key
O	Wrench
119	Connector
Q	Plastic Bristle Cleaning Brush

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