

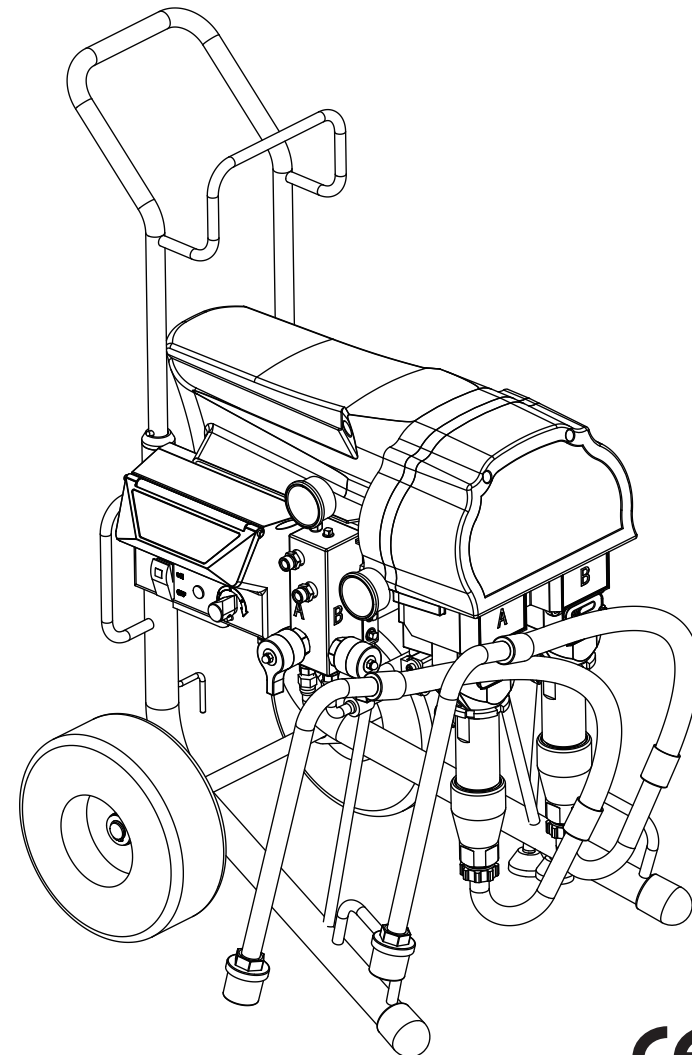
User Manual

EP 7285 / EP 7285 (Pro)

Two-Component Electric Airless Sprayer



Important Safety Instructions. Read all warnings and instructions in this manual. Save these instructions.



福州慧邦机械设备有限公司

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Warning

 WARNING	
	These warnings cover the setup, use, grounding, maintenance, and repair of this equipment. The exclamation mark indicates general warnings, while specific symbols denote particular hazards. Refer to these warnings whenever symbols appear in the manual or on labels. Additional product-specific warnings may be found elsewhere in this manual.
	GROUNDING This product must be grounded to safely discharge current in case of a short circuit, reducing the risk of electric shock. Use the provided power cord with a grounded plug, and connect it to a properly installed, grounded outlet as per local regulations. • Improper installation of the grounding plug may result in the risk of electric shock. • When repairing or replacing the cord or plug, do not connect the grounding wire to any flat prong. • The grounding wire is indicated by the outer surface of its insulation being green (with or without yellow stripes). • If you do not fully understand the grounding instructions, or if you are unsure whether the product is properly grounded, consult a qualified electrician or repair personnel. • Do not modify the provided plug. If it does not fit into your power outlet, have a qualified electrician install a suitable outlet. • This product is suitable for use on circuits with a nominal voltage of 220 volts. • This product can only be connected to a power outlet with a matching plug configuration. • This product should not be used with an adapter. Extension Cords: • Only use a 3-core extension cord, with one end having a grounding plug and the other end having a grounded outlet compatible with the plug supplied with this product. • Ensure that the extension cord you use is not damaged. If an extension cord is necessary, use one with a minimum wire size of 2.5 mm² to carry the current required by this device. • Using an extension cord with an inadequate wire size can lead to voltage drops, power loss, and overheating.
	Fire and Explosion Hazards The presence of flammable mists from solvents, coatings, or fumes in the work area poses a fire or explosion risk. To prevent fires and explosions: • Do not spray flammable or combustible coatings near open flames or sources of ignition, such as cigarettes, motors, and electrical equipment. • Coatings or solvents flowing through this spray machine can generate static electricity. In the presence of solvent or coating mists, static electricity poses a fire or explosion hazard. All parts of the spraying system, including pumps, hose assemblies, spray guns, and surrounding objects, must be properly grounded to prevent static discharge and sparks. Use grounded high-pressure airless paint spray hoses. • Ensure all containers and collection systems are grounded to prevent static discharge. Do not use bucket liners unless they are anti-static or conductive. • Connected outlets or extension cords must be grounded. Do not use 3-prong to 2-prong adapters. • Do not use coatings or solvents containing halogenated hydrocarbons. • Maintain good ventilation in the spraying area. Ensure plenty of fresh air circulation and keep pump components in well-ventilated locations. Do not spray on pump components. • No smoking in the spraying area. • Avoid operating light switches, engines, or other products that may produce electrical sparks in the spraying area. • Keep the area clean and free of paint or solvent containers, debris, and other combustible materials. • Be aware of the components of the paints and solvents being used. Read all Material Safety Data Sheets (MSDS) and container labels accompanying the paints and solvents, and follow the safety instructions provided by the manufacturers. • Ensure that effective firefighting equipment is available. • The spray machine may generate electrical sparks. Maintain a distance of at least 20 feet (6 meters) from explosive vapors when using flammable fluids or cleaning with flammable fluids near the spray machine.

Warning

 WARNING	
	Skin Injection Hazards High-pressure spraying can inject toxic substances into the body, leading to serious injuries. If injected into the skin, seek surgical treatment immediately. • Never aim the spray gun at anyone or any animal, and do not spray toward them. • Keep hands and other body parts away from the spray. For example, do not attempt to block the paint flow with any part of your body. • Always use a nozzle guard. Do not spray without the nozzle guard installed. • Be cautious when cleaning or replacing the nozzle. If it clogs during spraying, release the pressure and turn off the machine before removing the nozzle for cleaning. • Do not leave the spray machine powered on or pressurized when unattended. When not in use, follow the pressure release steps and turn off the machine. • Inspect hoses and parts for signs of damage. Replace any damaged hoses or parts. • This system can generate working pressures of 3300 psi (227 bar, 22.7 MPa). Use replacement parts or accessories rated for at least 3300 psi (227 bar, 22.7 MPa). • Always lock the trigger lock when not spraying. Ensure the trigger lock is functioning correctly. • Confirm that all connections are secure before operating the equipment. • Know how to quickly shut down and relieve pressure. Be thoroughly familiar with the control devices.
	Hazards of Equipment Misuse Misusing equipment can lead to serious injuries or fatalities. • Always wear appropriate gloves, goggles, and a respirator or face shield while spraying. • Do not operate or spray near children. Always keep children away from the spray machine. • Avoid leaning excessively or standing on unstable platforms. Always maintain a stable footing and balance. • Stay alert and focus on what you are doing. • Do not leave the spray machine powered on or pressurized when unattended. When not in use, follow the pressure release steps and turn off the machine. • Do not use this equipment when fatigued, or after using drugs or alcohol. • Avoid twisting or over-bending hoses. • Do not expose hoses to temperatures or pressures beyond specified limits. • Do not use hoses to pull or lift equipment. • Do not use hoses shorter than 25 feet for spraying. • Do not modify or alter the equipment. Modifications can void certifications and create safety hazards. • Ensure that all equipment is rated and certified for your intended use environment.
	Electric Shock Hazards This equipment must be properly grounded. Improper grounding, incorrect setup, or misuse can lead to electric shock. • Before servicing the equipment, turn off the power and disconnect the power supply. • Only connect to a properly grounded power outlet. • Use only three-prong extension cords. • Ensure that the grounding prongs on the power supply and extension cords are intact. • Do not expose the equipment to rain. Store it indoors. • Wait at least 5 minutes after disconnecting the power supply before servicing large capacitor devices.
	Hazards of High-Pressure Aluminum Components Using fluids incompatible with aluminum in pressurized equipment can cause severe chemical reactions and equipment failure, potentially leading to death, serious injury, or property damage. • Do not use 1,1,1-trichloroethane, dichloromethane, other halogenated solvents, or fluids containing these solvents. • Many other fluids may contain substances that react with aluminum. Contact your material supplier for compatibility information.
	Hazards of Moving Parts Moving parts can pinch or sever fingers and other body parts. • Avoid contact with moving parts. • Do not operate the equipment when guards are removed or covers are open. • Pressurized equipment may start without warning. Before inspecting, moving, or servicing the equipment, follow the depressurization steps and disconnect all power sources.

Important Instructions

This equipment is equipped with dual sensors that separately monitor the working pressure of Pump A and Pump B. By means of "high-pressure detection," the motor power output is controlled. When either pump reaches the rated working pressure (23 MPa / 3336 psi), the power output will be cut off and both pumps will immediately stop operating.

To prevent shutdown caused by pressure difference between Pump A and Pump B, the machine is preset at the factory with a pressure tolerance. Within this tolerance range, the equipment will not shut down.

Based on the dual-pump working characteristics, please follow the instructions below when starting, spraying, or performing pressure relief:

★ Spraying Procedure

Before spraying, both Prime Valve A and Prime Valve B must be closed simultaneously. Failure to do so may result in only one pump building pressure, which prevents the pumps from operating when the trigger is pulled. If this occurs, please refer to P14 (Troubleshooting) and release the pressure of the pump that remains pressurized (by pulling the trigger of the spray gun connected to that pump, or by reopening the corresponding Prime Valve). After pressure relief, close both Prime Valves simultaneously again.

★ Pressure Relief Procedure

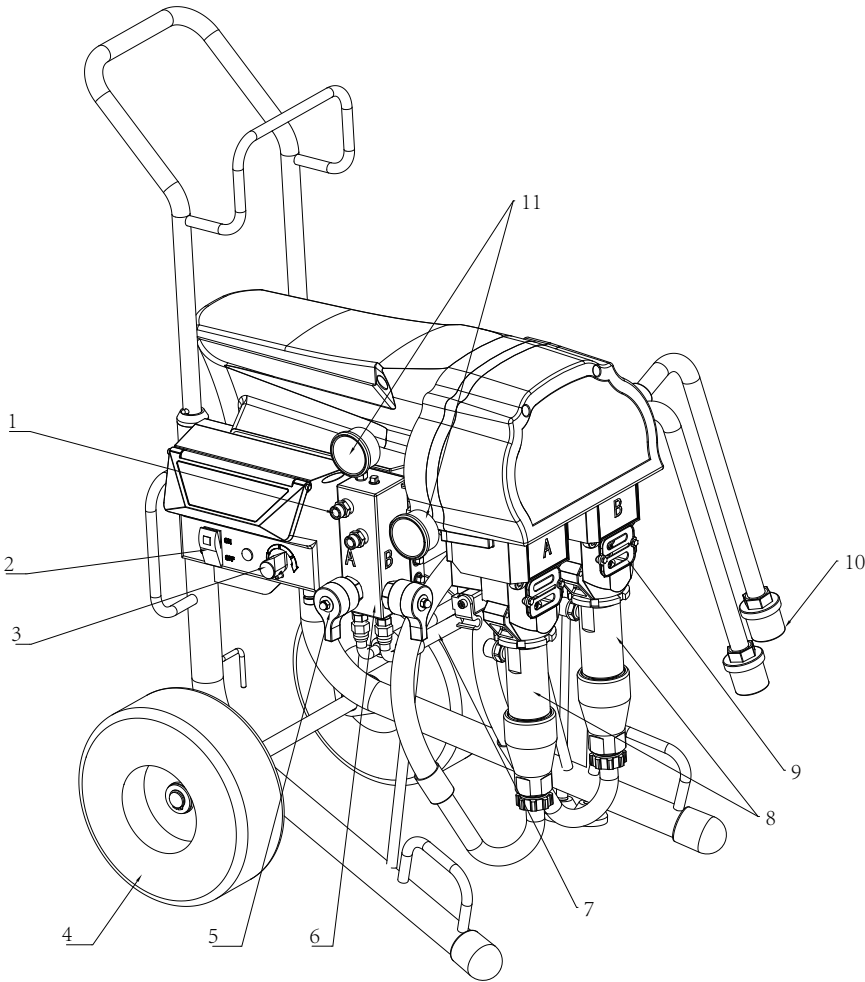
When performing pressure relief, it is not necessary to operate Prime Valve A and Prime Valve B simultaneously. However, you must ensure that both valves are in the open position. See P6 (Pressure Relief Procedure) for details.

★ Pressure Tolerance Setting

The machine is preset at the factory with a pressure tolerance value (the "tolerance value" refers to the allowable pressure difference between Pump A and Pump B. For example: if the machine is set to stop at 230 bar and the tolerance value is 10, then when Pump A reaches 230 bar, Pump B is allowed to be between 220 bar and 240 bar. The larger the tolerance value, the greater the allowable pressure difference. This setting is designed to prevent premature shutdown caused by pressure fluctuations before the preset pressure is reached, which would otherwise affect the spraying performance.) If the equipment shuts down earlier than expected during operation, please reset the tolerance value. Refer to P11 (Tolerance Value Setting). The maximum allowable tolerance value must not exceed 50.

Component Identification

EP 7285



NO.	Name
1	Outlet Valve A/B
2	Power Switch
3	Pressure Control
4	Tire
5	Prime Valve A/B
6	Manifold
7	Drain Tube A/B
8	Pump A/B
9	Grate
10	Suction Tube A/B
11	Pressure Gauge A/B

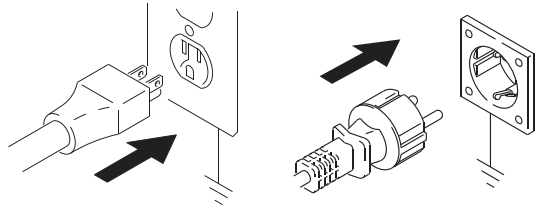
Grounding

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This equipment must be grounded to reduce the risk of static sparks and electric shock. Electric sparks or static electricity may ignite gases or cause explosions. Improper grounding can lead to electric shock. Grounding provides an escape path for electrical current.

The spray machine's power cord is equipped with a grounding wire and appropriate grounding prongs. Do not use the spray machine if the grounding prong on the cord is damaged.

The plug must be inserted into a power outlet that is properly installed and grounded in accordance with local regulations and requirements.



Do not modify the plug! If it cannot be inserted into the power outlet, have a qualified electrician reinstall a grounded power outlet. Do not use an adapter.

Power Requirements

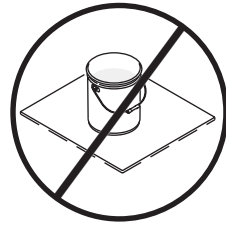
- The 230V device requires a 220–240V, 50/60 Hz, 10–16 amp AC power supply.

Extension Cord

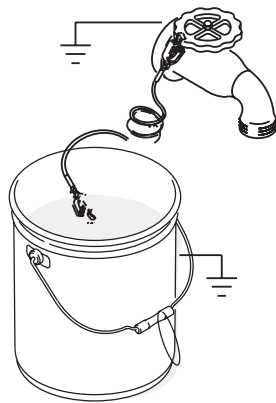
Use an extension cord with an undamaged grounding prong. If an extension cord is necessary, it should be at least a 3-core (4 mm²) wire. Using a cord that is too long or of a lower specification than (4 mm²) may affect the performance of the spray machine.

Bucket

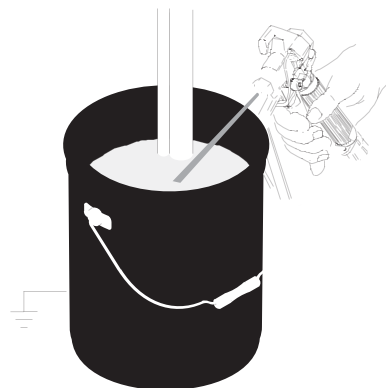
For solvents and oil-based fluids: Follow local regulations. Only use conductive metal buckets placed on grounded surfaces (such as concrete). Do not place buckets on non-conductive surfaces like paper or cardboard, as these surfaces can affect grounding continuity.



Grounding the Metal Bucket: Attach one end of a grounding wire securely to the bucket and connect the other end to a true grounding point, effectively grounding the bucket.



Maintain Grounding Continuity When Flushing or Releasing Pressure: Keep the metal part of the spray gun securely against the edge of the grounded metal bucket. Then, pull the trigger on the spray gun.



Pressure Relief Procedure

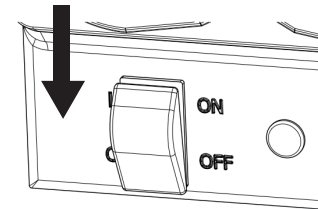


When you see this symbol, please perform the pressure relief procedure.

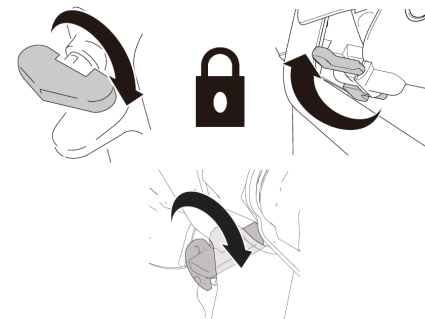


This equipment remains pressurized until manually relieving the pressure. To prevent serious injuries from pressurized fluids (such as injection into the skin, fluid splashes, and moving parts), please follow the pressure relief steps before stopping spraying and before cleaning, inspecting, or servicing the equipment.

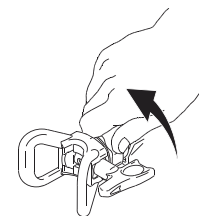
- Turn off the power. Wait 7 seconds to allow power dissipation.



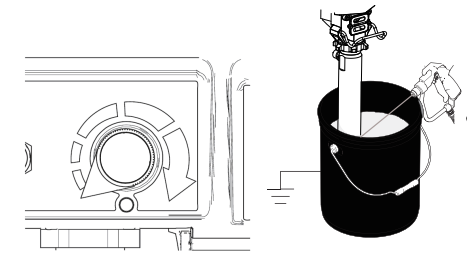
- Lock the spray gun.



- Remove the guard and nozzle.



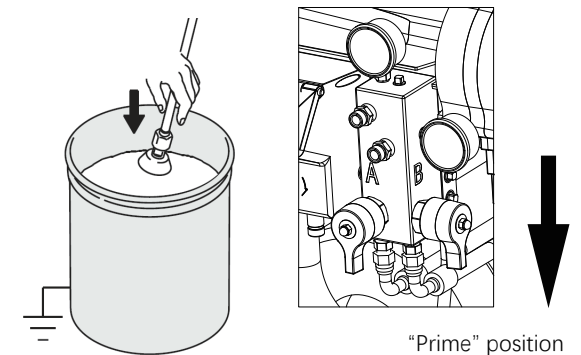
- Set the pressure to the minimum. Unlock the spray gun, pull the trigger to release the pressure.



- Place both Prime Tube A and Prime Tube B into a waste container. Rotate both Prime Valve A and Prime Valve B downward to switch them to the "Prime" position.

Note:

- Always ensure that both Prime Valve A and Prime Valve B are in the "Prime" position.
- The pressure relief procedure must be correctly performed before restarting the equipment. The vertical position of the prime valve indicates the Pressure Relief position.



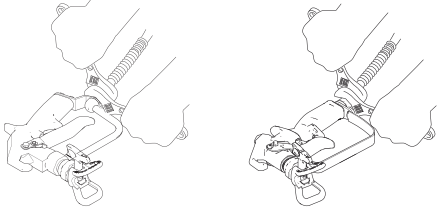
- If there is suspicion of a clogged nozzle or hose, or if it seems the pressure has not fully relieved after the above steps, slowly loosen the securing nut on the nozzle guard or the connection at the end of the hose to gradually relieve pressure before fully removing it. Clean any blockages in the hose or nozzle.

Setup/Installation



1. Connect the high-pressure hose to the spraying machine and tighten it firmly.

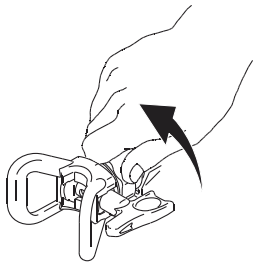
2. Connect other end of hose to gun. Tighten securely.



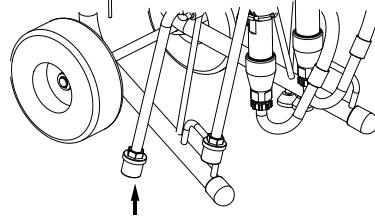
3. Engage gun trigger lock.



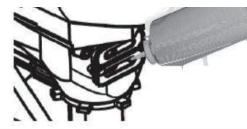
4. Remove tip guard.



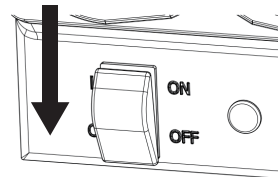
5. Check the pump inlet for blockages and debris; ensure the ball is not stuck.



6. Fill the pump packing nut with sealing lubricant to prevent premature wear of the seals. This should be done before each spraying operation.



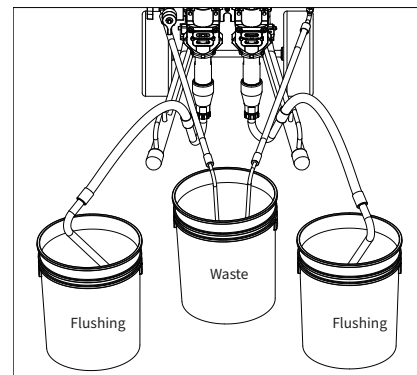
7. Turn off the power.



8. Insert the power cord plug into a properly grounded power outlet.

9. Rotate the prime valve down to the "Prime Position."

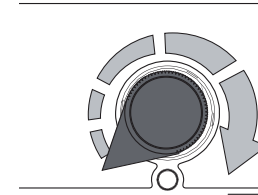
10. Place both Suction Tube A and Suction Tube B into a grounded metal container partially filled with flushing fluid. Place both Prime Tube A and Prime Tube B together into a waste container.



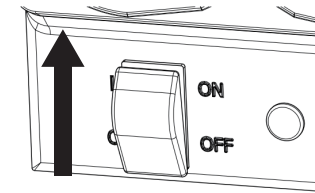
Starting



1. Perform the pressure relief procedure (see page 6).
2. Rotate the pressure control knob to the lowest pressure.



3. Turn on the power.



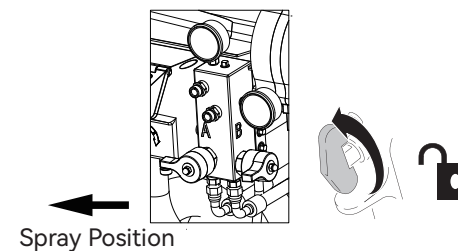
4. Increase the pressure by half a turn to start the motor, then let it circulate through the return hose for 15 seconds to reduce the pressure.



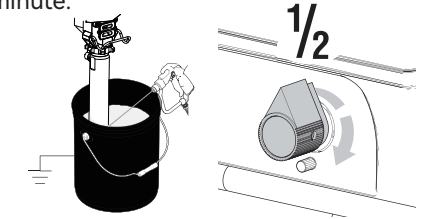
15sec.



5. Rotate the prime valve to the "Spray Position" and release the spray gun trigger lock.

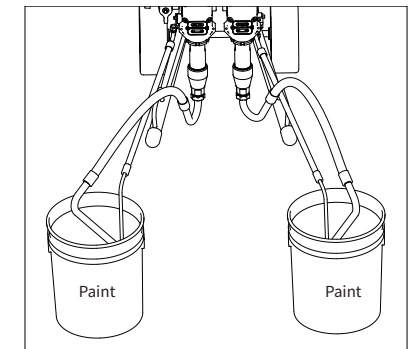


6. Hold the spray gun against the grounded metal cleaning bucket and pull the trigger, increasing the fluid pressure by half a turn. Flush for 1 minute.

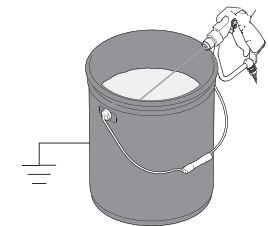


7. Check for leaks. If there are leaks, perform the pressure relief procedure. Tighten the leaking part or replace the leaking components, then repeat steps 1 to 5 of the starting procedure. If there are no leaks, proceed to step 8.

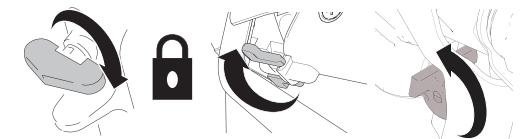
8. Place Suction Tube A with Drain Tube A, and Suction Tube B with Drain Tube B into the A and B Paint Bucket.



9. Pull the trigger again into the cleaning bucket until paint flows out. Move the spray gun to the paint bucket and pull the trigger for 20 seconds.



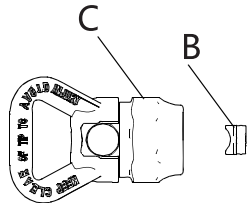
10. Lock the trigger. Follow the instructions on the next page to assemble the nozzle and guard.



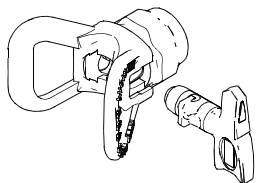
Assemble tip and guard



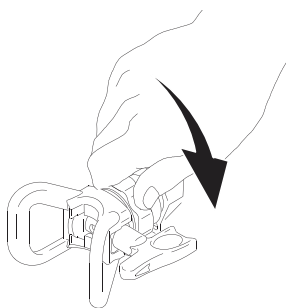
1. Relief pressure, page 6
2. Insert the saddle (B) into the nozzle seat (C).



3. Insert Switch tip.



4. Screw assembly onto gun. Tighten.

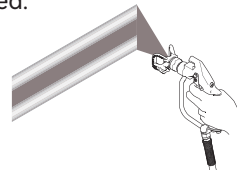


Spraying

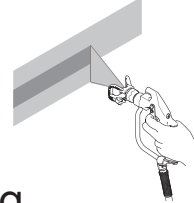


High-pressure spraying can inject toxic substances into the body, leading to serious physical harm. Do not use objects or rags to block leaks.

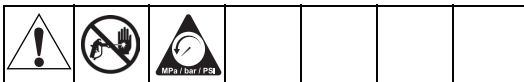
1. Test the spray pattern. Increase the pressure to eliminate the track. If adjusting the pressure does not eliminate the track, a smaller nozzle may be used.



2. Hold the spray gun vertically, keeping it 10-12 inches (25-30 cm) from the surface being sprayed. Spray back and forth with 50% overlap, pulling the trigger after moving the spray gun and releasing it before stopping.

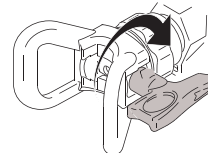


Clear Clog

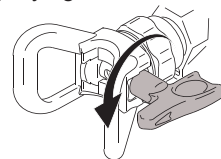


Skin injections are dangerous, do not point the spray gun towards your hands or a cloth!

1. Release the trigger and lock the trigger lock. Rotate the nozzle 180° and release the trigger Lock and pull the spray gun to clean any blockages.



2. Lock the trigger lock and rotate the nozzle to its original position. Release the trigger lock, Continue spraying.



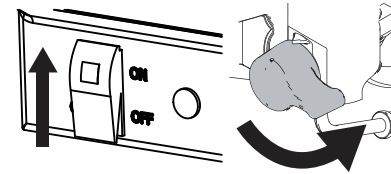
Cleanup



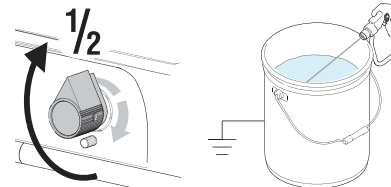
1. Follow the pressure relief procedure (Steps 1-4 on page 6). Remove the guard from the spray gun.

NOTE: Use water for water-based coatings and mineral spirits or other solvents recommended by the manufacturer for oil-based coatings.

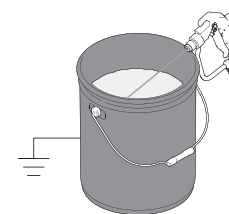
2. Turn power ON. Turn prime valve horizontal.



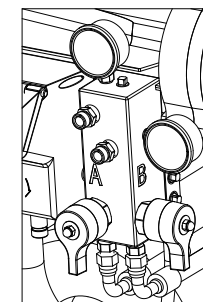
3. Increase pressure to 1/2. Hold gun against paint pail. Take trigger safety OFF. Trigger gun until flushing fluid appears.



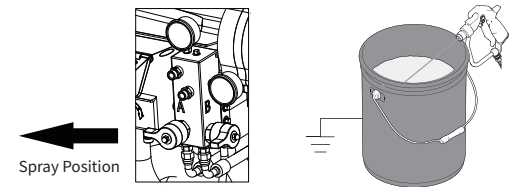
4. Move gun to wastepail, hold gun against pail, trigger gun to thoroughly flush system. Release the trigger and lock the trigger lock.



5. Rotate the prime valve to the "Prime" position to circulate and flush the fluid until clean flushing fluid appears.

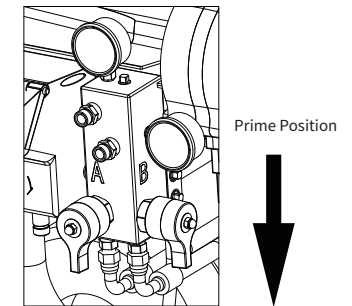


6. Rotate the A and B pressure relief valve simultaneously to the "spray" position and trigger the gun into the flush bucket to drain fluid from the hose.

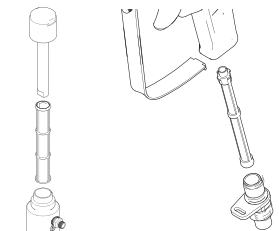


7. Raise the suction tube above the flush level and run the sprayer for 15 to 30 seconds to drain the fluid and turn off the power.

8. Open prime valve. Unplug sprayer.



9. Remove filter from gun and sprayer, if installed. Clean and inspect. Install filters.



10. If flushing with water, flush again with mineral spirits, or Pump Armor, to leave a protective coating to prevent freezing or corrosion.



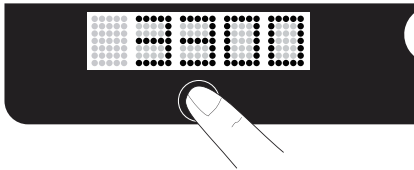
11. Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.



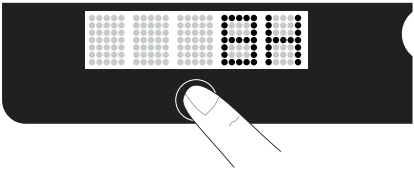
Digital Tracking System

Follow the pressure relief steps on page 6.

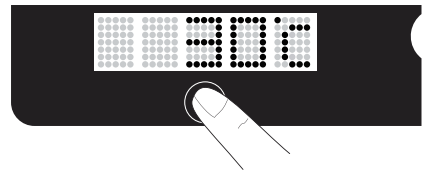
1. Press the button to switch to the PSI unit display; the display shows 3300 PSI.



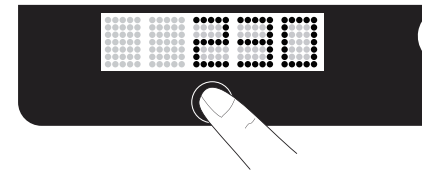
3. Press the button again to show the motor's operating time; the display indicates 8 hours of usage.



4. Press the button again to display the motor temperature; the display shows a temperature of 30 degrees Celsius.

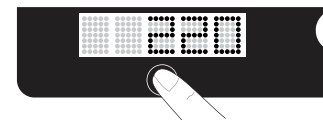


5. Press the button once more to switch the pressure unit to bar; the display shows 230 bar.

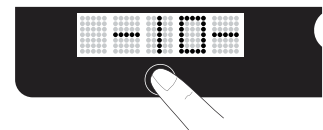


Set The Pressure Tolerance Value

1. The value represents the actual pressure as the machine is running.



2. Long press the button in the middle of the screen to switch to adjusting the pressure tolerance value of the dual pumps (initial value is 10). Short press the button once to increase the value by 10. If you want to decrease the value, short press it consecutively



Control Board Replacement

Removal



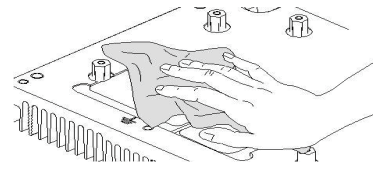
Follow the pressure relief steps on page 6:

1. Remove the cover of the electrical control box: unscrew the 4 screws.
2. Disconnect the potentiometer plug, the display plug, and the two red ON/OFF power input connectors.
3. Disconnect the sensor connector.
4. Use a Phillips screwdriver to loosen the motor connection wires; the order of the connection wires is yellow, green, blue.
5. Remove the 6 screws from the circuit board.

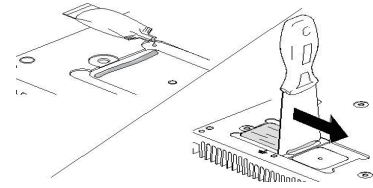
Installation



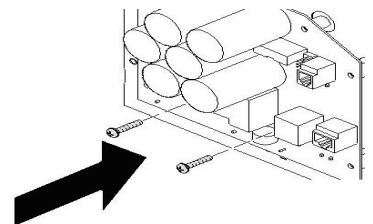
1. Use acetone or similar cleanser to clean sweep thermal compound from shaded component areas on rear of motor control board.



2. Apply small amount of thermal compound to shaded component areas on rear of motor control board.



3. Reinstall the 6 internal screws onto the control board and tighten them with a 17-inch-lb (1Nm) torque wrench. Reassemble the remaining components in the reverse order of disassembly.



Replacing the Drive Housing

CAUTION

When removing the drive housing (24), ensure the gear set does not fall out. The gear set can remain in the cavity of the motor base or inside the drive housing.

Disassembly



Follow the pressure relief procedure on page 6.

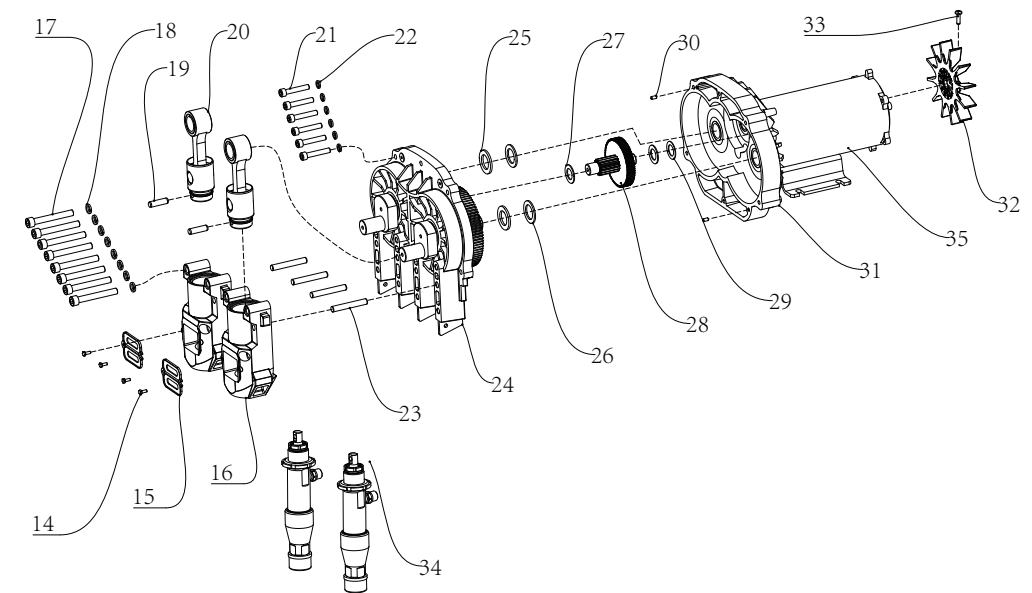
1. Unscrew bolt (14) and remove the front cover (15).
2. Remove the pump (34); for specific steps, see page 14 for replacing the piston pump.
3. Remove bolt (17) to take off the housing (16) and connecting rod (20).
4. Unscrew bolt (21) to remove the drive housing (24), completing the disassembly.

Installation



Ensure that the gears and thrust washers (25,26, 27,28,29) are installed correctly and in place. Apply grease to the gear tooth.

1. Align the drive housing (24) with the motor base (31) and tighten bolt (21).
2. Align the housing (16) and connecting rod (20) with the drive housing (53) and tighten bolt (17).
3. Install the pump (34); for specific steps, see page 14 for replacing the piston pump.
4. Install the front cover (15) and tighten bolt (14) to complete the installation.



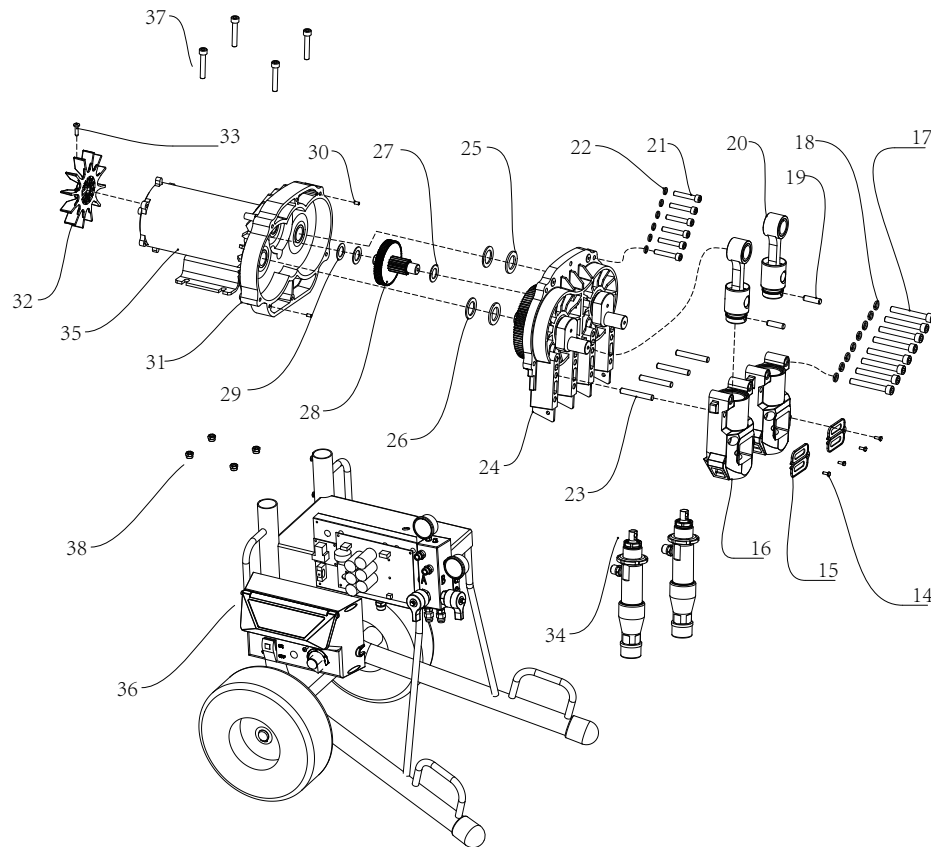
Replacing the Motor

Disassembly



Follow the pressure relief procedure on page 6.

1. Disassemble the drive housing (page 12).
2. Remove the electrical control box (36) and disconnect the motor (35) from the circuit board.
3. Remove the cooling fan (32).
4. Unscrew nut (38) and pull out bolt (37) to remove the motor (35).



Installation



1. Place the new motor (35) on the frame, aligning it with the frame holes, and insert bolt (37) through the motor (35) and the frame.
2. Screw nut (38) onto bolt (37) and tighten.
3. Install the cooling fan (32) onto the end of the motor (35) shaft.
4. Connect the motor (35) wiring to the circuit board, cover the electrical control box (36), and tighten bolt.
5. Ensure that the gears and thrust washers (25,26, 27,28,29) are installed correctly and in place.
6. Install the drive housing (page 12) to complete the motor installation.

Replacing the Piston Pump

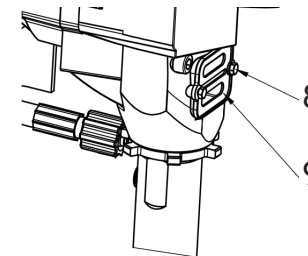
NOTE

If the anti-loosening nut (56) on the pump becomes loose during operation, it may damage the threads of the drive housing (53).

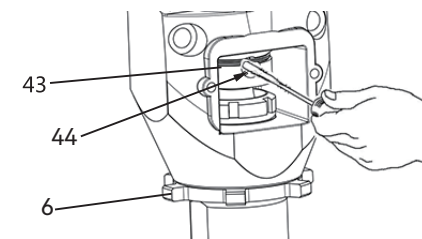
Removal



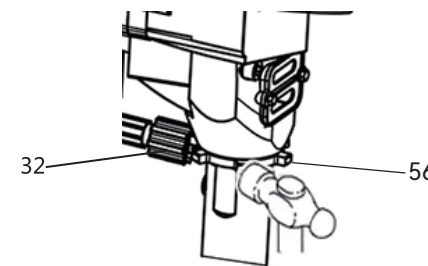
1. Flush pump
2. Relieve pressure, page 6.
3. Remove screws (8), slid pump rod shield left (9).



4. Slowly rotate the pressure control knob clockwise to allow the motor to run slowly, observing the piston rod pin (44) in the removable position. Turn off the power switch and unplug the power cord. Push the retaining spring (43) upward and use a screwdriver to push out the piston rod pin (44).



5. Remove the connecting hose (32).
6. Use a hammer to loosen the lock nut (56) of the pump, and then unscrew the pump.

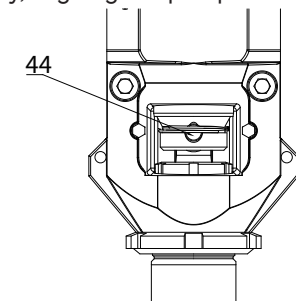


Installation

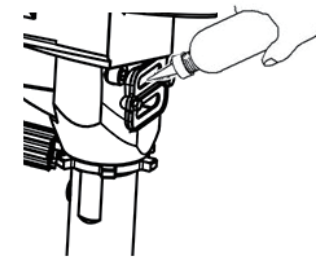


If pump pin works loose, parts could break off due to force of pumping action. Parts could project through the air and result in serious injury or property damage.

1. Extend the piston rod by 40mm, then rotate the pump to align the piston rod hole with the piston pin hole.
2. Install the piston rod pin. Ensure the locking spring is positioned within the groove of the connecting rod.
3. Push the pump upward until the pump threads engage.
4. Screw the pump in until the end of the pump threads is close to the bottom of the pump body, aligning the pump outlet backward.



5. Connect the connection hose (32).
6. Screw the anti-loosening nut (6) on the pump upward until it cannot be turned further. Tighten the nut by hand, then use a 0.5 kg (maximum) hammer to tap it an additional 1/8 to 1/4 turn, achieving approximately 102 Nm of torque.
7. Install the pump grate (9) using screws (8).
8. Apply 5-6 drops of throat seal lubricant to the sealing nut.



Troubleshooting



Relief pressure,page 6.

CAUTION
Never increase fluid pressure in the sprayer without the sensor installed. If using a test sensor, ensure the prime valve at the prime position.

Problem	Cause	Solution
No fluid supply	Inlet valve and ball stick together or outlet valve and ball stick together.	Use the screwdriver to top up the ball.
	The prime valve is blocked, preventing the machine from discharging air properly.	Clean or Replce the prime valve.
Low Output	The tip is damaged.	Replace the tip.
	Lack of paint.	Fill the paint.
Motor Running without triggering the gun	some matter stuck on the piston valve and the ball seat, or the paint has hardened.	Clean or Replace the prime valve.
	Inlet valve and outlet valve worn	Replace the outlet valve.
	Severe damage of ball seat and piston valve.	Replace the outlet ball.
	Check if the piston gasket and seal worn seriously.	Replace the piston gasket seal.
	Worn of the piston rod.	Replace the piston rod.
	Check if there is paint oozing from the pump locking nut.	Replace the packing, and screw the nut.
	If the prime valve is leaking (making a hissing sound)	Repair the prime valve.
	The transsducer is worn.	Repace the transsducer.
The display screen shows that the pressure is normal, but actually the working pressure is low.	Gun filter is clogged.	Clean gun filter,and replace if necessary..
	Tip is clogged.	Relieve pressure.clean tip.
	Manifold filter is clogged.	Clean manifold filter,and replace if necessary.
	The transsducer is worn.	Repace the transsducer.

Problem	Cause	Solution
Motor runs but pump does not stroke.	The drive housing is worn or damaged.	Disassemble the driving housing (page 12)
Sprayer quit after sprayer operates for a while.	Only one pump is under pressure.	Reset the pressure tolerance value(page 11).
	Motor overheating.	Stop the working,after self-cooling,then continue work.
Sprayer Switch On The circuit breaker in the building trips.	Power cord Short circuit.	Repair or Replace.
	The corridor circuit breaker is less than 16A.	Ensure power cord is connected to a circuit breaker greater than 16A.
	The power switch is worn.	Replace Power Switch.
	The cricuit board is worn.	Replace circuit board.(page 11)
Sprayer Operates for a While: Circuit breaker trips.	The cricuit board or the motor is worn.	Replace circuit board.(page 11) Replace motor. (page 13)

Motor Control Board Diagnostics



NOTE:

- Keep a new transducer on hand to use for test.
- No display does not mean the sprayer is not pressurized. Before repair,relieve pressure,page 6

DISPLAYLED	NIXIE DISPLAY	WHAT TO DO
No display		
psi/bar/MPa	The spraying machine has been pressurized. The power is turned on.	
E=01	IPM temperature high (4KW)	Clean the dirt from the heat sink and wait for the drive to cool down before returning to normal.
E=02	Communication failure	Check the communication connection signal line between the sensor board and the motor drive,If there is no fault with the signal line, it should be repaired by the manufacturer instead.
E=03	Sensor failure	Check if the sensor has poor contact or replace it.
E=04	Connection or mechanical failure between motor and drive controller.	Check the connection between the motor and driver, and check if the machinery is stuck. After confirming that everything is normal Replace the driver for testing, identify motor or driver faults, and then repair the corresponding components!
E=05	Motor or driver overcurrent fault	Same as E-04.
E=06	IPM alarm	Same as E-05.
E=07	Pressure larger than 7Mpa under cleaning status	Turn on the spray gun or adjust the pressure control potentiometer to the normal position!
E=08	Power supply undervoltage	Check if the power supply voltage or socket is faulty!
E=10	Motor overheating temperature protection.	
E=11	Power input protection	Check if the power supply is connected to AC380V or if there is a problem with the input power supply. After solving the problem, Wait until the machine is fully discharged (usually when the display screen goes out, it means it has been discharged), then turn on machine for use.

CAUTION

Do not allow sprayer to develop fluid pressure without transducer installed.Leave drain valve open if test transducer is used.

1. For sprayers with digital display, see "Digital Display Information".
2. Turn ON the ON/OFF power switch.

Electric

Fault Phenomenon: Sprayer does not operate, stops, or fails to shut down.
Perform the pressure relief procedure (see page 6).

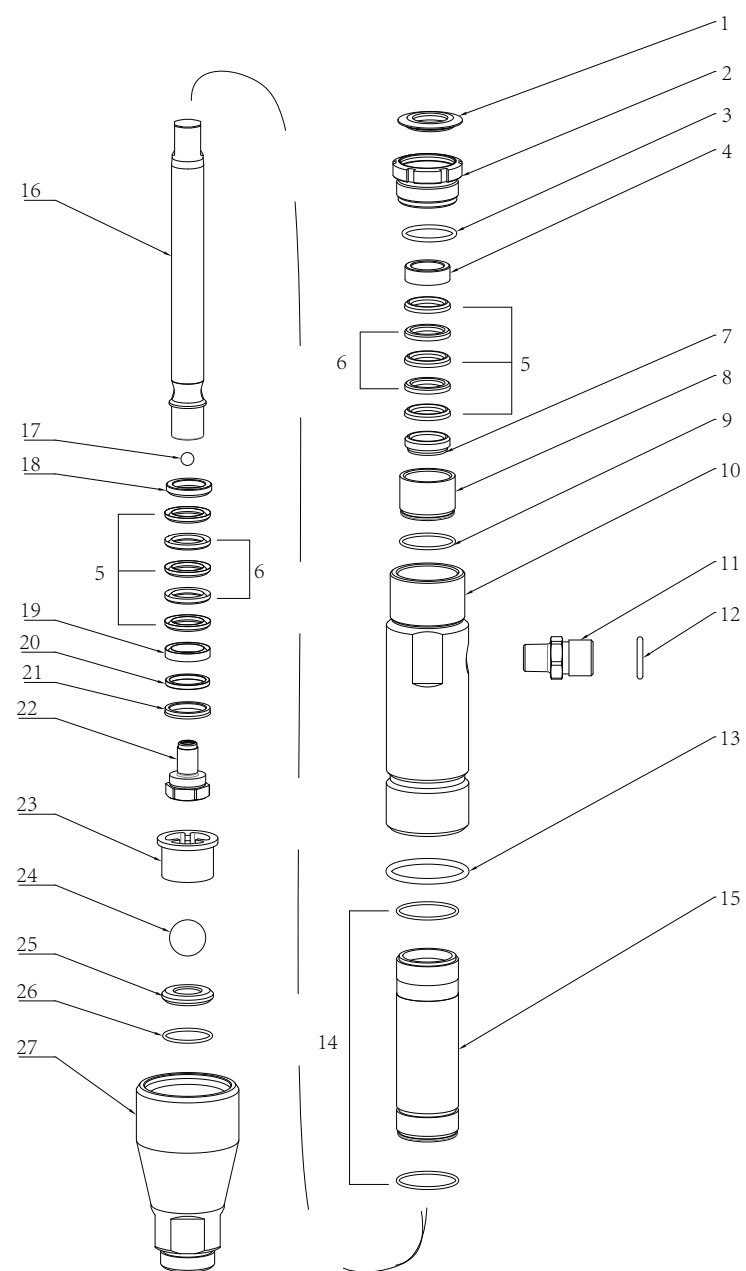


- 1.Ensure sprayer is plugged into a correct grouded power outlet.
- 2.Set the power switch as 30 seconds re-start after power shortage. This can ensure the sprayer is in normal operating mode.
- 3.Rotate the pressure control knob clockwise by half a turn.
- 4.Check the digital display.



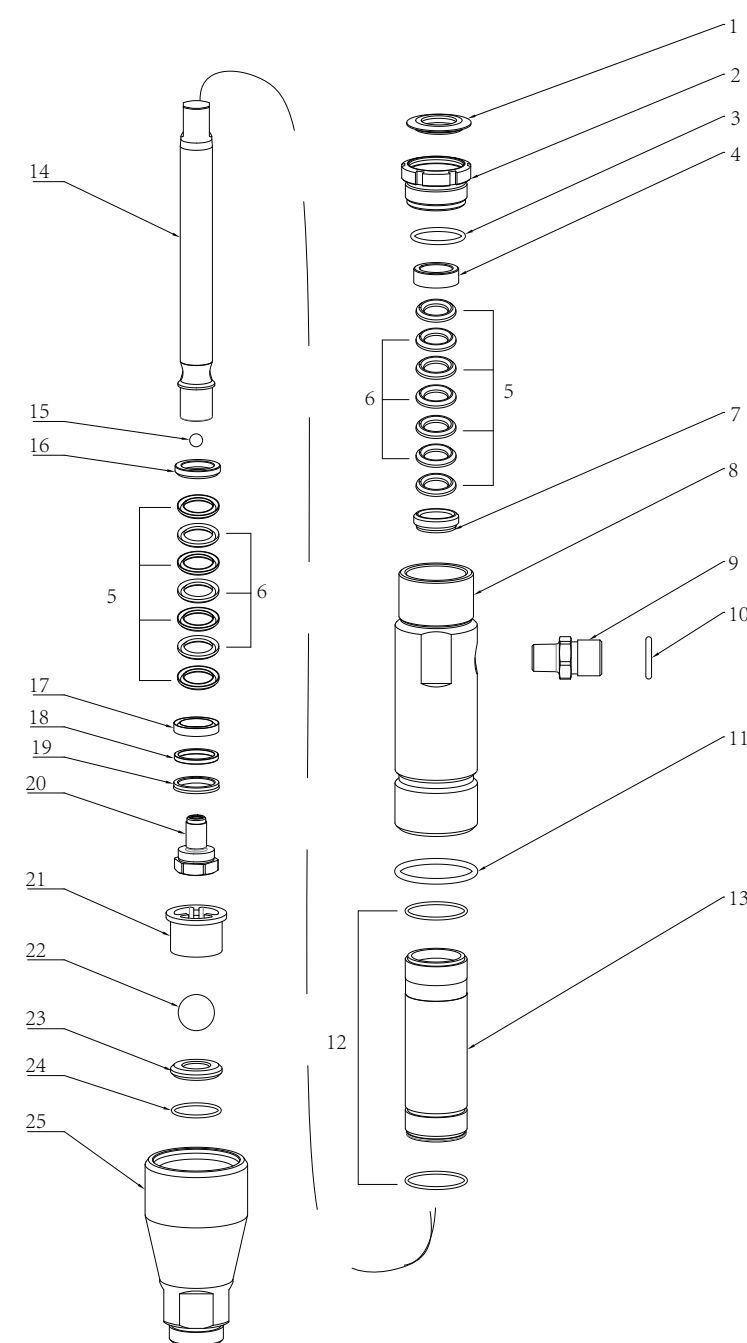
During troubleshooting, avoid electrical and moving parts to prevent electric shock. If removing the cover is necessary, unplug the power cord and wait 5 minutes for any accumulated charge to dissipate.

EP7285 Piston Pump



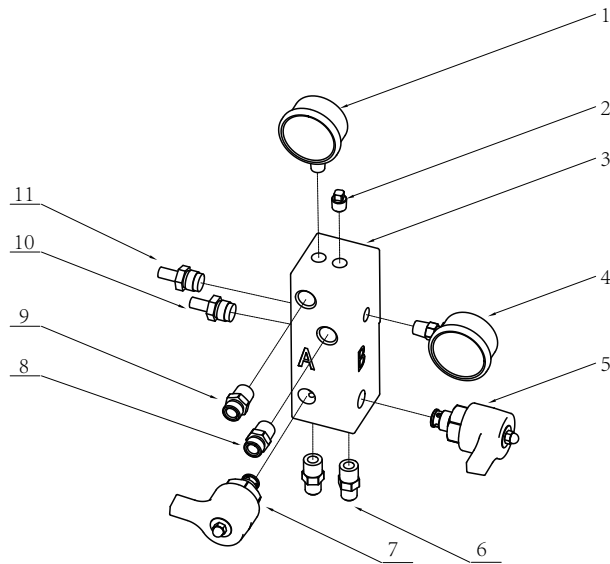
NO	Name	Quantity
1	Seal,throat	1
2	Nut,packing	1
3	oring	1
4	GLAND, female, throat	1
5	V-packing	6
6	Leather V-ring	4
7	GLAND, male, throat	1
8	Upper sealing sleeve	1
9	PTFE O-ring	1
10	Cylinder	1
11	Cylinder Screw	1
12	oring	1
13	oring	1
14	PTFE O-ring	2
15	Inner cylinder liner	1
16	Piston Rod	1
17	Tungsten steel ball	1
18	GLAND, male, piston	1
19	GLAND, female, piston	1
20	WIPER, piston	1
21	Oil Seal	1
22	Piston valve	1
23	Ball guide	1
24	Tungsten steel ball	1
25	Inlet valve seat	1
26	PTFE O-ring	1
27	Intake housing	1

EP7285 (PRO) Piston Pump



NO	Name	Quantity
1	Seal,throat	1
2	Nut,packing	1
3	oring	1
4	GLAND, female, throat	1
5	V-packing	8
6	Leather V-ring	6
7	GLAND, male, throat	1
8	Cylinder	1
9	Cylinder Screw	1
10	oring	1
11	oring	1
12	PTFE O-ring	2
13	Inner cylinder liner	1
14	Piston Rod	1
15	Tungsten steel ball	1
16	GLAND, male, piston	1
17	GLAND, female, piston	1
18	WIPER, piston	1
19	Oil Seal	1
20	Piston valve	1
21	Ball guide	1
22	Tungsten steel ball	1
23	Inlet valve seat	1
24	PTFE O-ring	1
25	Intake housing	1

EP7285 Manifold Filter



No.	Name	Qty.
1	Pressure gauge A	1
2	Plug	1
3	Manifold Case	1
4	Pressure gauge B	1
5	Prime Valve B	1
6	Nipples, Drain Tube	2
7	Prime Valve A	1
8	Nipple B	1
9	Nipple A	1
10	Pressure Sensor B	1
11	Pressure Sensor A	1

Technical Data

EP7285 Two-Component Electirc Airless Paint Sprayer		
Model No.	EP7285	EP7285 (PRO)
Voltage	220V, 20A, 50~60HZ	
Max. Working Pressure	23 Mpa, 3336 psi	
Max. Delivery	10 L/min	11.3 L/min
Mixing Ratio	1 : 1	
Max. Tip Size	(Dual-Guns) 0.027" , (One Gun) 0.039"	
Fluid Outlet	3/8 inches	
Noise Level, ISO3741	85 dB	
Power Source	4000W Brushless DC Motor, 5.4 HP	
Wetted Parts	Stainless steel, PTFE, leather,nickel-tungsten carbide, UHMWPE, NBR	
Gorss Weight	71.7 kgs	
Package Size	70*56*87 (cm)	
Standard Spray Gun		
Model No.	AS8000	
Model Type	Airless Spray Gun	
QTY.	2	
Max. Working Pressure	3300psi / 230bar / 23mpa	
Gorss Weight	664g	
Pipe Size	1/4 npsm male	
Max. Fluid Temperature	50°C	
Optional Spray Gun (Purchase Additional)		
Model No.	C4	
Model Type	Airless Mixing Spray Gun	
QTY.	1	
Max. Working Pressure	5000psi / 340bar / 34mpa	
Gross Weight	1236g	
Pipe Size	1/4 npsm male	
Max. Fluid Temperature	50°C	

Warranty and Limitations

Warranty General:

HVBAN products have a one year guarantee from the invoice date, unless otherwise stated in writing. The warranty covers all manufacturing faults and material defects. Any spare part replacement or repair operations are covered only if they are carried out by our authorized distributors. This warranty covers when the equipment is installed, operated and maintained in accordance with HVBAN written recommendations. HVBAN shall not be liable for, any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of Non-HVBAN component parts. This warranty is conditioned upon the CARRIAGE PAID return of the equipment claimed to be defective to an authorized HVBAN distributors for verification of the claim. If the claimed defect is verified, HVBAN will repair or replace free of charge any defective parts. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

The Warranty does not cover:

- Damage or breakdown caused by improper use or assembly.
- Damage or breakdown caused by the use of spare parts that are different from the original or recommended ones.
- Damage or breakdown caused by bad preservation.
- Components subject to wear (described in parts list).

Warranty Forfeiture:

- In case of delayed payment or other contractual defaults.
- Whenever changes or repairs are carried out on our equipment without prior authorization.
- When the serial number is damaged or removed.
- Whenever the damage is caused by improper use or functioning, or if the equipment falls, is bumped or by other causes not due to the normal working conditions.
- Whenever the unit is disassembled, tampered with or repaired without the authorization of HVBAN.