Operation, Repair, and Parts

USER MANUAL

HS 2895

HVBAN®

Airless Line Striper

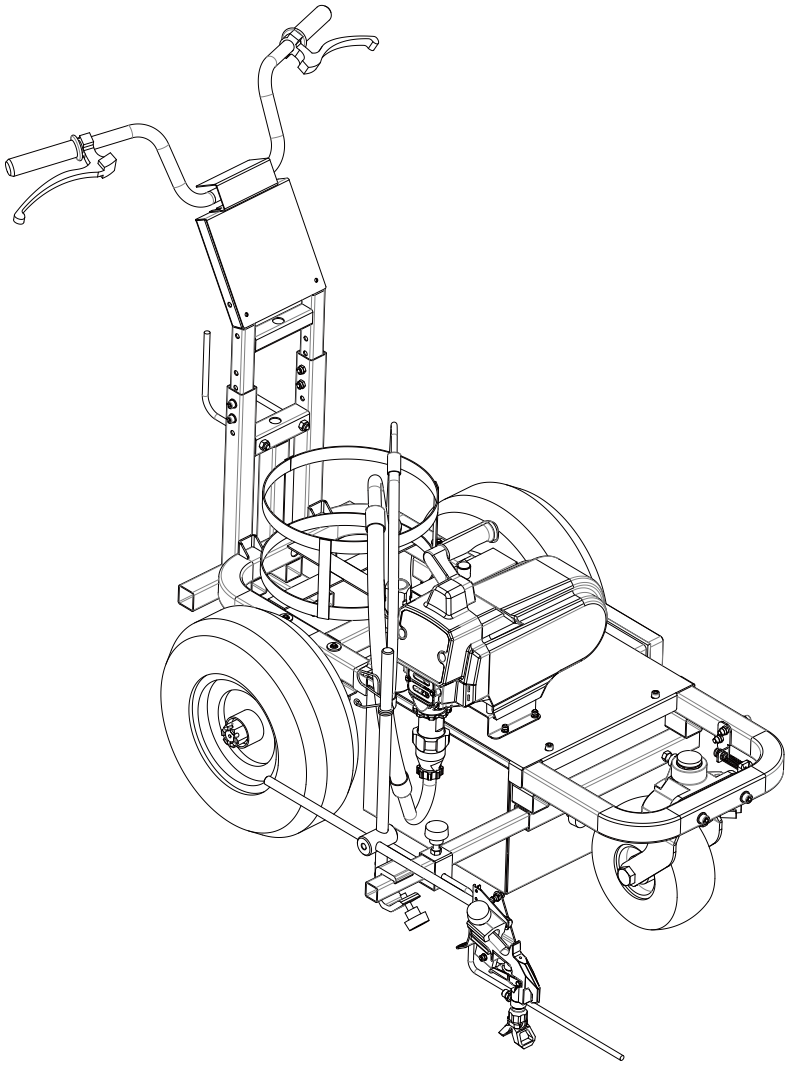
EN

For the application of line striping materials.
For professional use only.
Not approved for use in explosive atmospheres or hazardous (classified) locations.

Important Safety Instructions

Read all warnings and instructions in this manual and in related manuals before using the equipment. Save all instructions.

3336 psi (23 MPa, 230 bar) Maximum Fluid Working Pressure.



E-LINE
HS 2895
Electric - Line striper

CE

ISO 9001

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The following warnings include general safety information for this equipment.
"!" means general warnings, while other warning symbols means danger what associated with specific operating procedures.
When the symbols appear in the manual or the warning, please refer back.
Further product specific warnings may be included in the text where applicable

⚠ WARNING



INJECTION HAZARD

- High pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment.
- Do not point the gun at anyone or at any part of the body.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Do not spray without tip guard and trigger guard installed.
- Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking or servicing equipment.
- Equipment still keep pressure after cutting off power. When unattended, do not leave the equipment in power or pressure.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately
- Do not use components rated less than sprayer Maximum Working Pressure 3300PSI.
- Engage trigger lock when not spraying.
- Tighten all fluid connections before operating the equipment
- Keep know how to quickly shut down and pressure relief. Fully familiar with the control equipment



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode.
To help prevent fire and explosion:

- Use only in an extremely well ventilated area.
- Do not fill fuel tank while engine is running or hot. should shut down the engine and makes it cooler.
- Eliminate all ignition sources;such as pilot lights,cigarettes and plastic drop cloths(static arc hazard).
- Ground equipment and conductive objects in work area. Read Grounding instructions
- Do not spray or clean solvent under high pressure.
- Keep work area free of debris, including solvent, rags, and gasoline
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, stop operation immediately.Do not use equipment until you identify and correct the problem.
- Keep effective fire extinguisher in work area.

⚠ WARNING



CARBON MONOXIDE HAZARD

Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death.

• Do not operate in an enclosed area.



BURN HAZARD

Equipment surfaces and fluid that's heated can become very hot during operation.

To avoid severe burns

• Do not touch hot fluid or equipment.





QUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not use equipment when tired or drinking alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. Read Technical Data in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. Read Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings.For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the equipment in power or pressure when unattended
- Check equipment daily. Repair or replace worn or damaged parts immediately
- Follow Pressure Relief Procedure in this manual, when you stop spraying
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately
- Do not alter or modify equipment.may lead to agency certification failure and cause safety hidden trouble
- Ensure all equipment has been rated and certified and can available for your work area.
- Use equipment only for its intended purpose. Call your distributor for information
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or overbend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



PRESSURIZED ALUMINUM PARTS HAZARD

• Do not use 1,1,1-trichloroethane, methylene chloride, and/or other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemcal reaction and equipment rupture,and result in death, serious injury, and/or property damage.





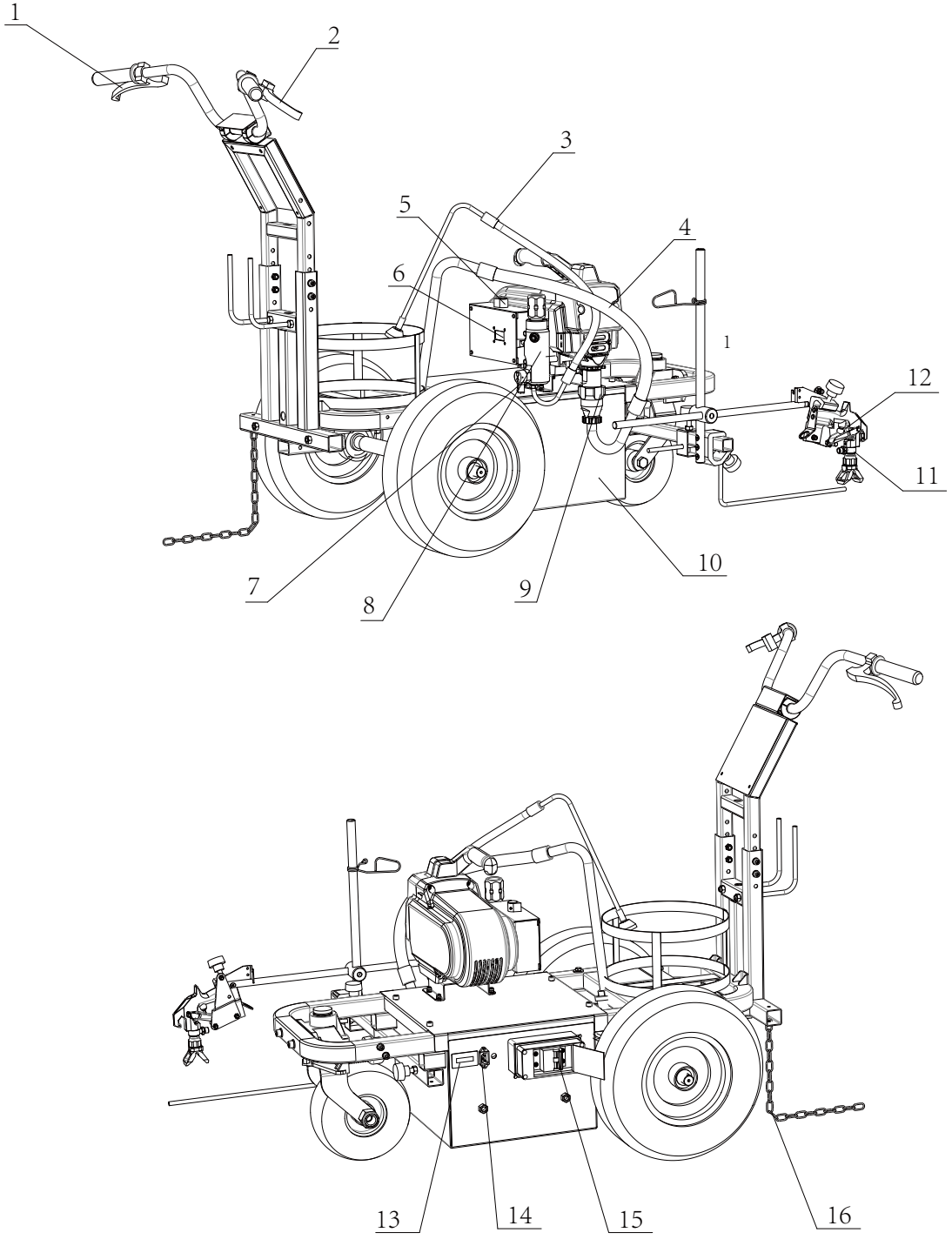
MOVING PARTS HAZARD

Moving parts can pinch or amputate fingers and other body parts.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply.

	⚠ WARNING
	**TOXIC FLUID OR FUMES HAZARD** Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed. • Read MSDS's to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
	**PERSONAL PROTECTIVE EQUIPMENT** You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves
 	**BATTERY AND CHARGER COMPATIBILITY HAZARD** • Only rated voltage of 60V batteries and battery chargers • READ ALL INSTRUCTIONS included with this tool regarding the safety and usage of the batteries and battery chargers. • Do not wash or spray down battery. • Do not clean the battery with anything other than a cloth moistened with water.

Components Identification

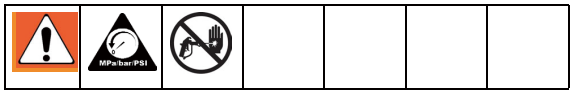


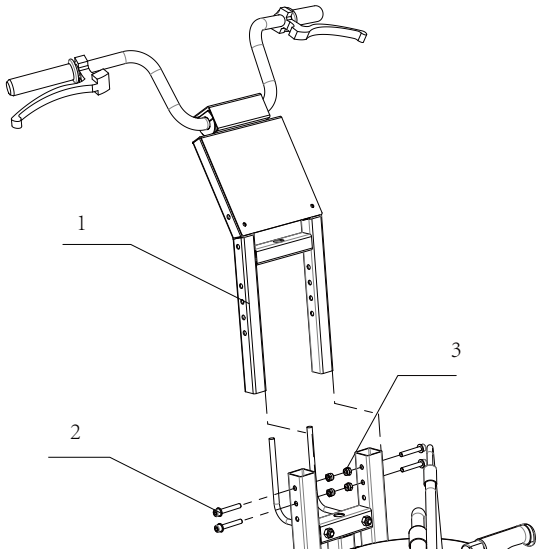
1	Front Wheel Lock/Unlock
2	Spray Gun Trigger
3	Drain Hose
4	Siphon Hose
5	Pressure Control
6	Pressure Display
7	Prime/Spray Valve
8	Filter
9	Pump

10	Battery Cabin
11	Spray Gun
12	Spray Gun Trigger Lock
13	Battery Display Panel
14	Charger Port
15	Power Switch
16	Grounding Wire

Upper Rack

Installation



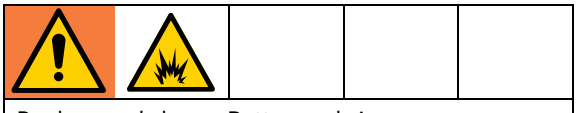


1. Fix the upper rack assembly (1) into the rack with four bolts (2) set.
2. Screw the four nuts(3) into the bolts(2).

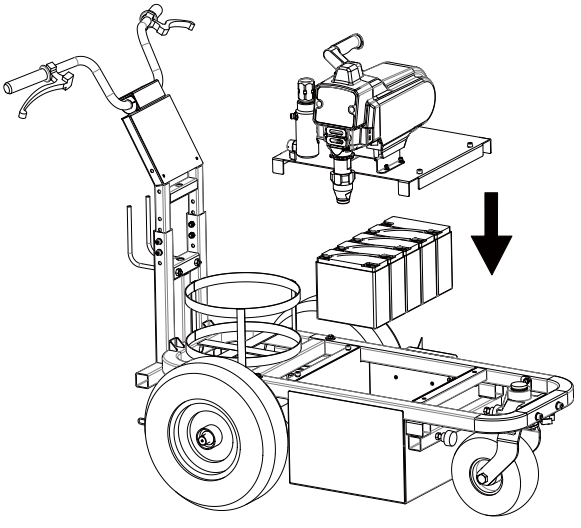
Battery

Installation

Always start with a fully charged Battery.
Do not splash or immerse Battery or charger in water.

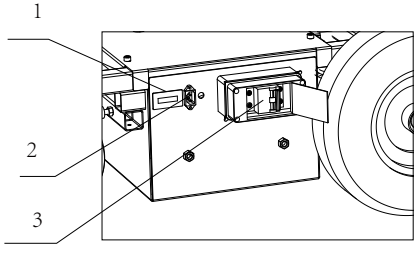


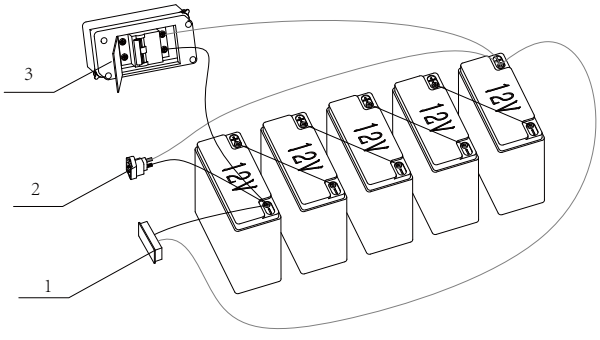
Replace and charge Battery only in a well-ventilated area and away from flammable or combustible materials, including paints and solvents.



1. Make sure to use the same brand and voltage of batteries (The rated voltage of 60V).

2. As noted, connect the batteries with the power switch(3), the charger port(2), and the Battery Display Panel (1).

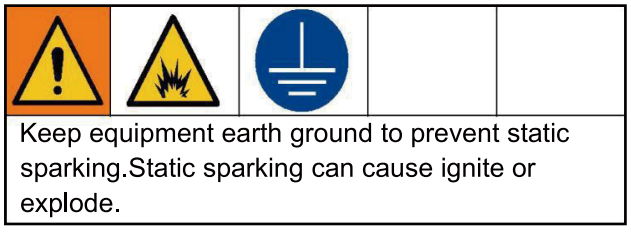




Earthing & Pressure Relief Procedure

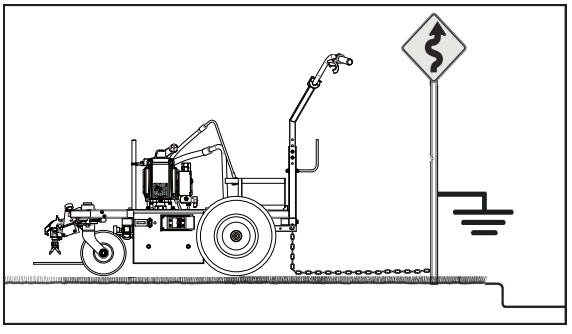
Earthing Procedure

For the application of flammable materials only.

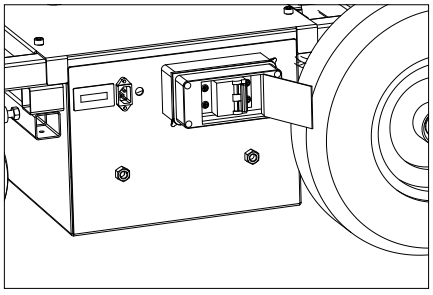


Keep equipment earth ground to prevent static sparking.Static sparking can cause ignite or explode.

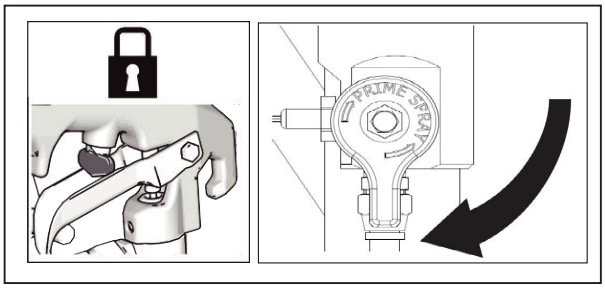
1. Positioned equipment to prevent tire to the ground.
2. Attach sprayer grounding clamp to metal post connected to earth ground



1. Follow earthing procedure if use flammable materials.
2. Turn power switch OFF



3. Engage gun trigger lock and turn prime valve down.



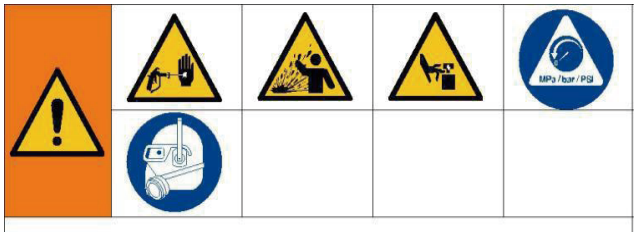
4. If you suspect the spray tip or hose is clogged or that pressure has no been fully relieved after following the steps below

a . VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually.

b. Then loosen completely.

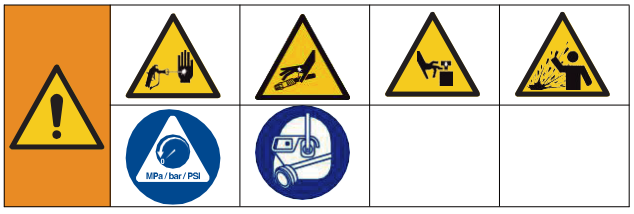
c. Clear hose or tip obstruction.

Pressure Relief Procedure



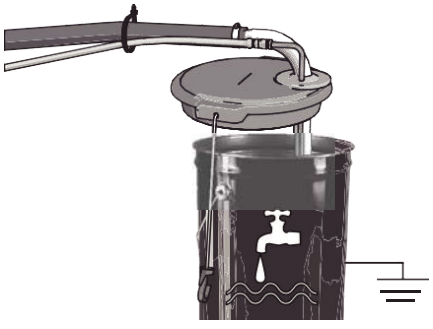
Equipment is in pressurized state before manually relief.To prevent high-pressure fluid(skin injection, fluid spray,moving parts) cause serious injury. Before checking, moving, or servicing equipment follow the Pressure Relief Procedure in this manual

Start up

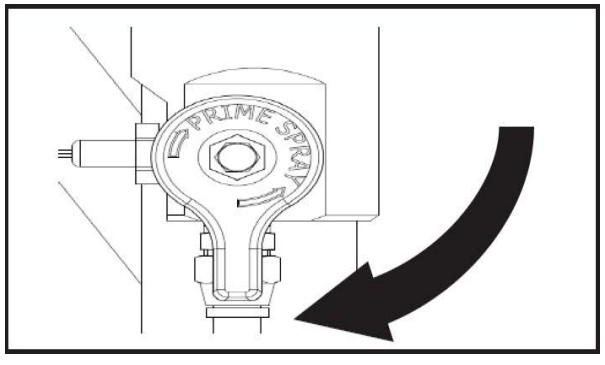


1. Perform Pressure Relief Procedure. See **Grounding Procedure (For Flammable Materials Only)**, page 7.

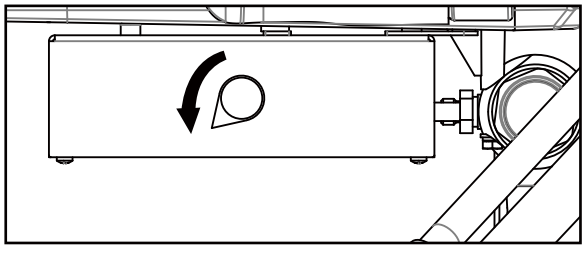
2. Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to true earth ground. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.



3. Turn prime valve down.



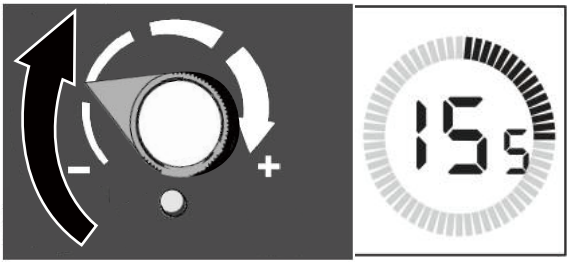
4. Turn pressure control counterclockwise to lowest pressure.



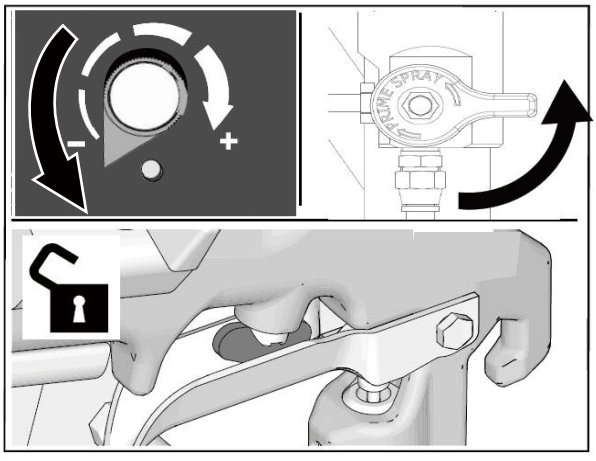
NOTICE

Do not run pump without fluid flow. Damage to packings can occur.

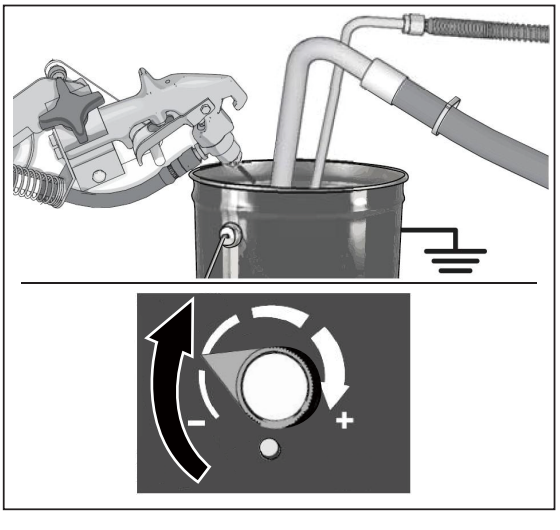
5. Set pump switch to ON. Increase pressure enough to start pump. Allow fluid to circulate for 15 seconds.



6. Turn pressure down, close prime valve. Disengage gun trigger lock.



7. Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly.

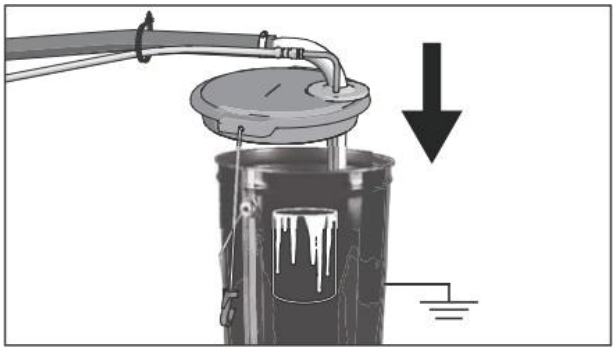




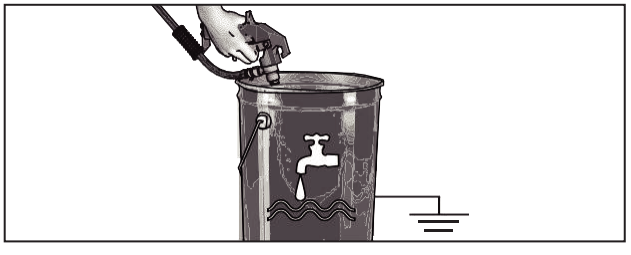
High-pressure spray is able to inject toxins into the body and cause serious bodily injury. Do not stop leaks with hand or rag.

8. Inspect fittings for leaks. Do not stop leaks with your hand or a rag! If leaks occur, turn striper OFF immediately. Perform **Grounding Procedure (For Flammable Materials Only)**, page 7. Tighten leaky fittings. Repeat **Startup**, steps 1 - 7. If no leaks, continue to trigger gun until system is thoroughly flushed.

9. . Place siphon tube in paint pail.



10. Trigger gun again into flushing fluid pail until paint appears. Assemble Tip and Guard.



Tip and Guard Assembly

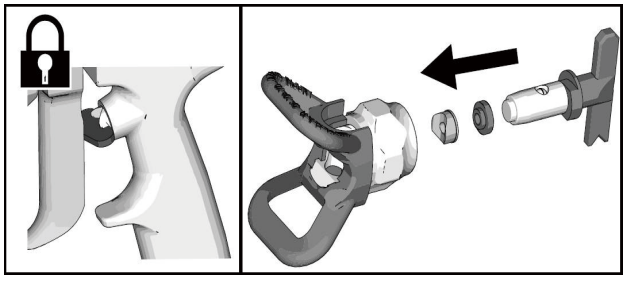


To avoid serious injury from skin injection do not put your hand in front of the spray tip when installing or removing the spray tip and tip guard.

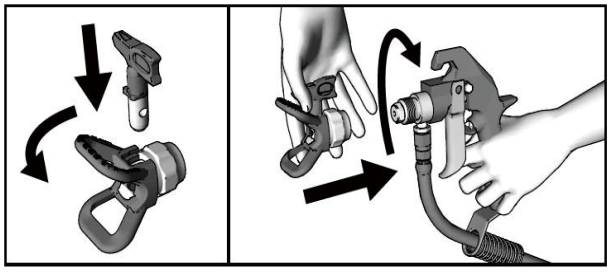
To prevent spray tip leaks, make certain spray tip and tip guard are installed properly.

1. Perform **Pressure Relief Procedure** .

2. Engage trigger lock. Insert seat and Tip Seal. Insert Tip.



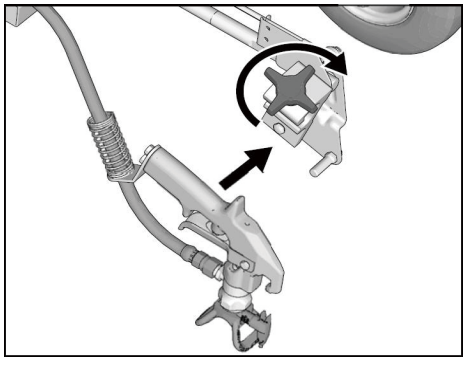
3. Screw assembly onto gun. Hand tighten.



Gun Placement

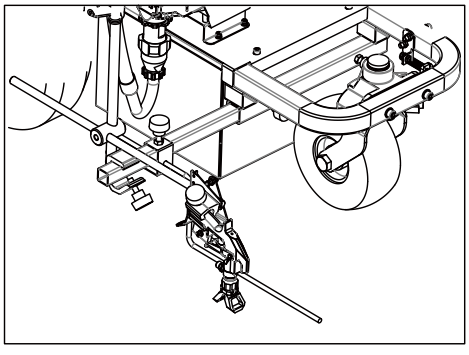
Install Gun

1. Insert gun into gun holder with hose guard pressed against the holder assembly bracket. Tighten gun into clamp.

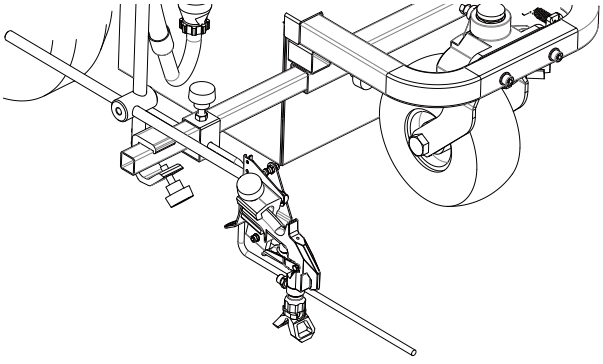


Position Gun

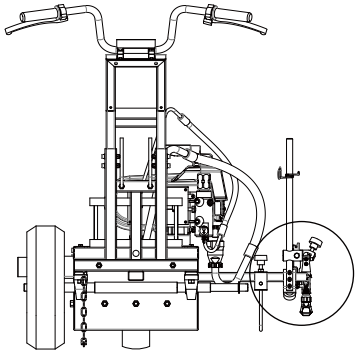
2. Position gun up/down and forward/reverse.



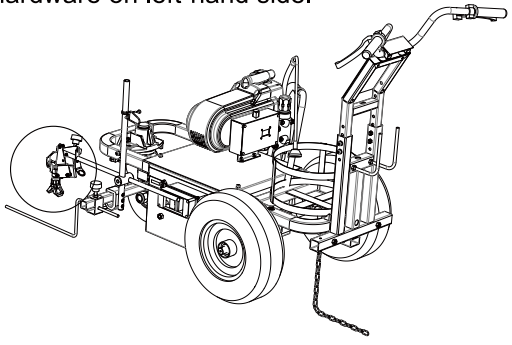
3. Position gun left/right.



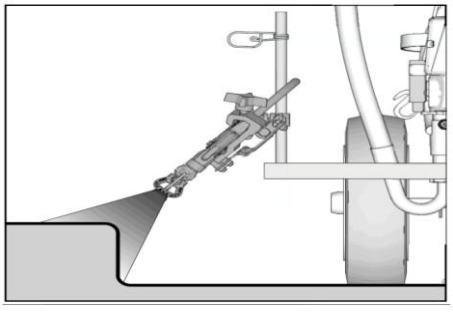
a. **Right-side gun position:** Place gun and related hardware on right-hand side.



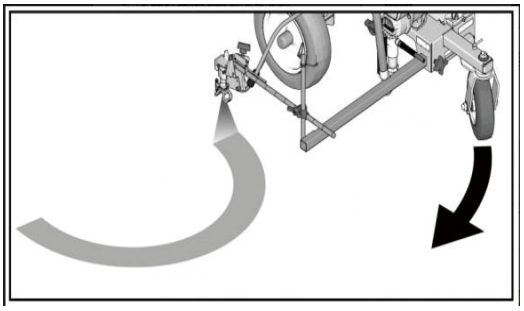
b. **Left-side gun position:** Place gun and related hardware on left-hand side.



4. For **Curb Position**, place gun at proper angle and height .



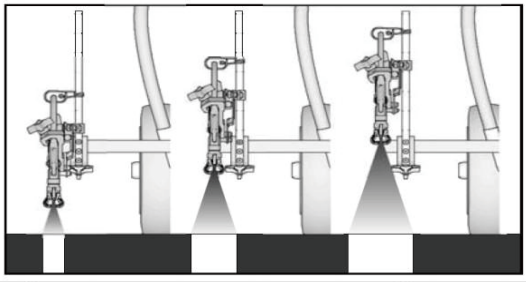
5. For **Gun Arc Spray Position**, place gun at rear of striper. Rear position improves arc quality.

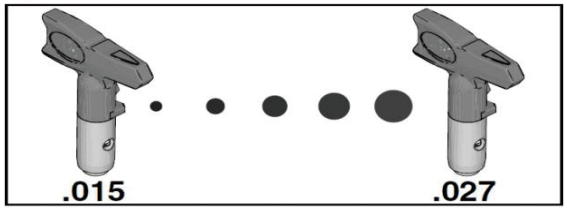


NOTE: Verify that the gun can still be triggered **and** that the trigger lock can still be engaged after installation. Make adjustments if necessary.

Paint Stripe Width

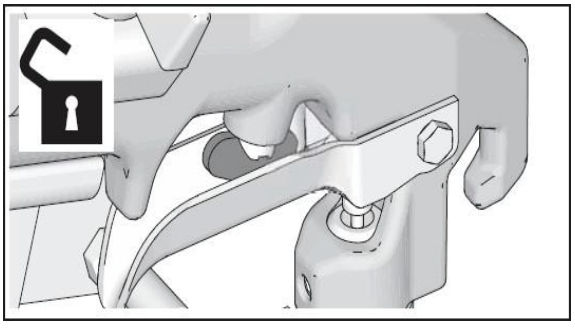
1. Adjust gun up or down to change paint stripe width. If desired width can't be attained, change tip.



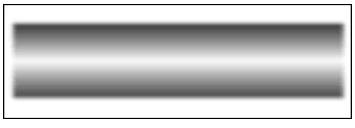


Spray Test Stripe

1. Disengage trigger lock.



2. Trigger gun and spray test pattern. Slowly adjust pressure to eliminate heavy edges. Use smaller tip size if pressure adjustment can not eliminate heavy edges.

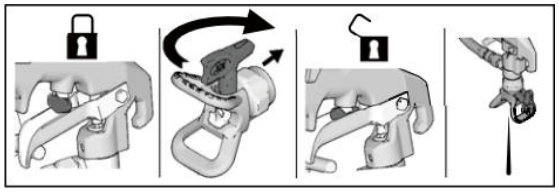


Start up

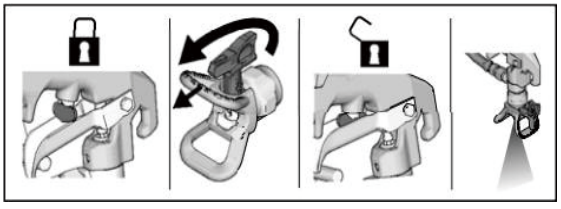
Clearing Tip Clogs



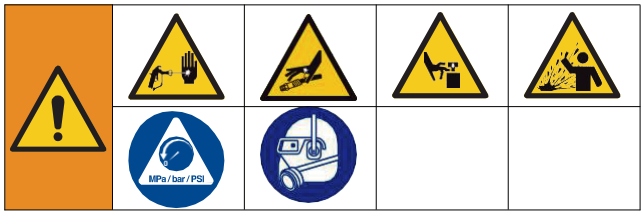
1. Release trigger. Engage gun trigger lock. Rotate Tip. Disengage gun trigger lock and trigger gun to clear the clog.



2. Engage gun trigger lock, return Rac Tip to original position, disengage gun trigger lock and continue spraying.

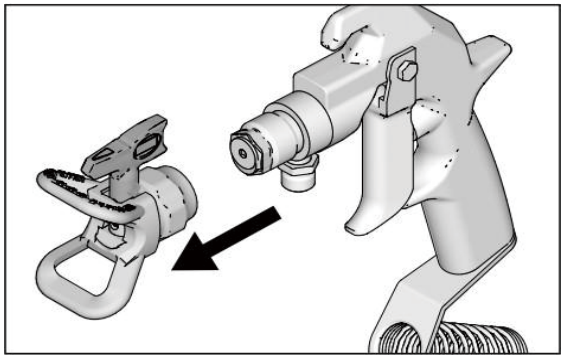


Clean-up

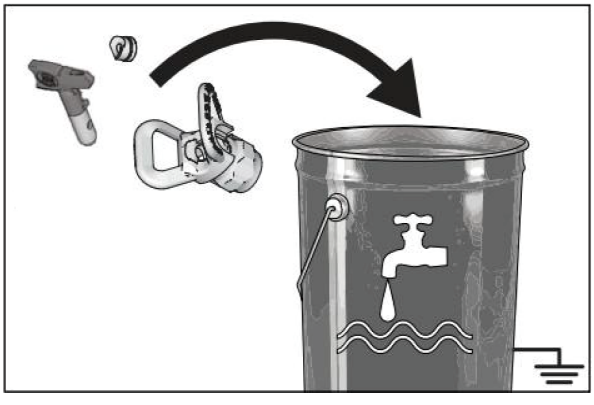


1. Perform Pressure Relief Procedure.
   See **Pressure Relief Procedure**, page 7.

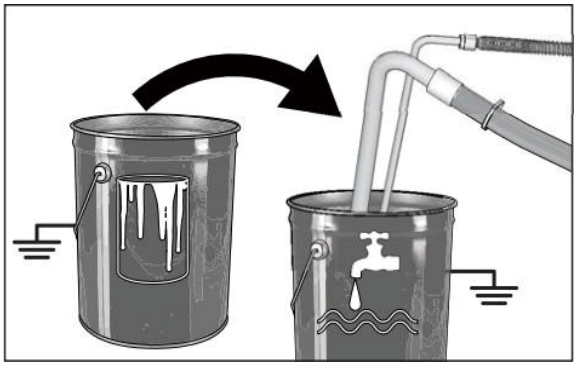
2. Remove Guard and Tip.



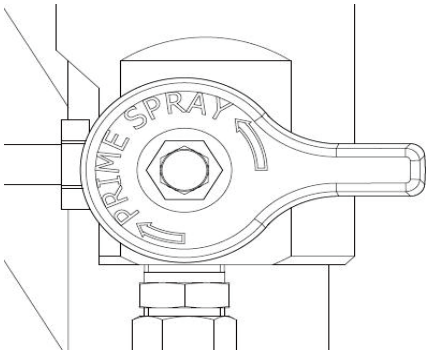
3. Clean guard and tip in flushing fluid.



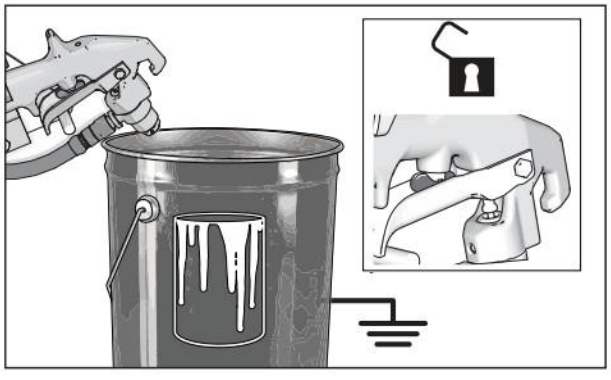
4. Remove siphon tube set from paint and place in flushing fluid. Use water or pump conditioner for water-base paint and mineral spirits for oil-base paint.



5. Close prime valve.



6. Hold gun against paint pail. Disengage gun trigger lock.

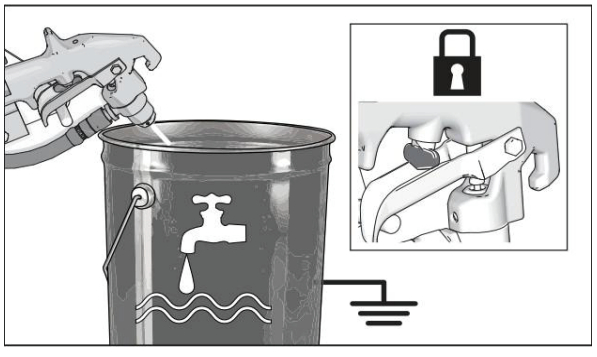


Clean up

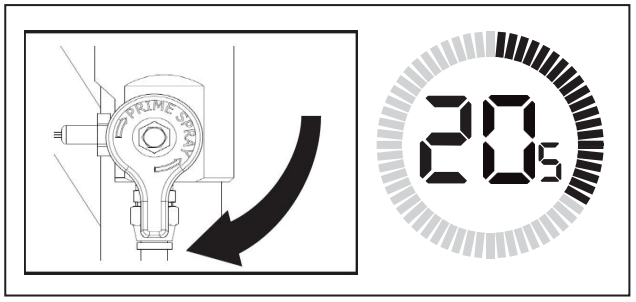
7 . Gradually turn pressure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.



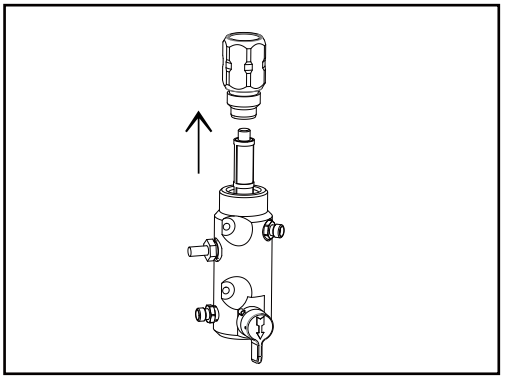
8 . Move gun to flushing pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and engage trigger lock.



9. Open prime valve and allow flushing fluid to circulate for 20 seconds to clean drain tube.



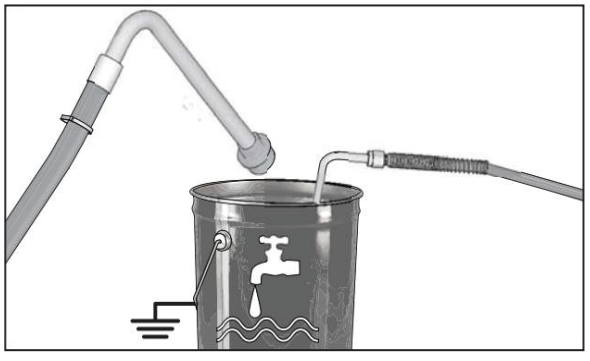
10. Unscrew cap, remove filter. Clean filter.



NOTICE

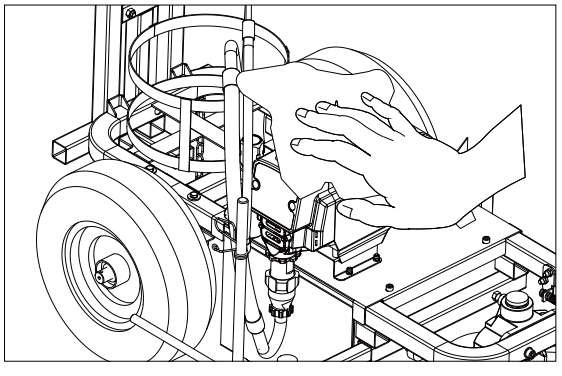
Do not run pump without fluid flow. Damage to packings can occur.

11. Raise siphon tube above flushing fluid and run striper for 15 to 30 seconds to drain fluid.



12. Clean Tip, Guard and gasket with a soft bristle brush to prevent part failure due to dried materials. Assemble parts and attach loosely onto gun.

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



Flushing Recommendations

If you are going to:	Flush with:	Prime with:	Clean with:	Store with:
Spray with new sprayer or sprayer that has been stored	Compatible solvent such as water or mineral spirits	Compatible paint, such as water-base or oil-base	Compatible solvent such as water or mineral spirits	Mineral spirits
Spray water-base paint	Warm, soapy water, then clean water	Water-base paint	Warm, soapy water, then clean water	Mineral spirits
Spray oil-base paint	Mineral spirits	Oil-base paint	Mineral spirits	Mineral spirits
Change water-base to oil-base paint	Warm, soapy water, then clean water	Mineral spirits	Mineral spirits	Mineral spirits
Change oil-base to water-base paint	Mineral spirits, soapy water, then clean water	Water-base paint	Warm, soapy water, then clean water	Mineral spirits
Change colors, same base	Compatible solvent such as water or mineral spirits			

Troubleshooting



Type of Problem	What to Check *(if check is OK, go to next)*	What to Do *(When check is not OK, refer to this column)*
Basic fluid pressure problems	Pressure control knob setting.Motor will not run if at minimum setting(fully counter-clockwise).	Slowly increase pressure to see if motor starts.
	Spray tip or fluid filter may be clogged.	Relieve pressure,page 7 and clear clog,or clean filter;refer to separate gun or tip instruction manual.
Basic Mechanical Problems	Pump frozen or paint hardened in pump.	Thaw sprayer if water or water-based paint has frozen in sprayer.Place sprayer in warm area to thaw.Do not start sprayer until thawed completely. If paint hardened (dried) in sprayer,replace pump packings.See page18,Displacement Pump Replacement.
	Displacement pump connecting rod pin must be completely pushed into connecting rod and retaining spring must be firmly in groove of pump pin.See page 18.	Push pin into place and secure with spring retainer.
	Motor.Remove drive housing assembly. See page 20.Try to rotate fan by hand.	Replace motor if fan won't turn.See page 20.
	Control board.Board shuts down and displays error code.	See Motor Control Board Diagnostics,page 17.
Basic Electrical Problems	Motor leads are securely fastened and properly mated.	Replace loose terminals;crimp to leads.Be sure terminals are firmly connected. Clean circuit board terminals. Securely reconnect leads.
Low Output capacity.	Check for spray tip wear..	Pressure Relife Procedure on page 7. Then replace the spray tip.
	Check if the voltage is too low.	Using the correct voltage.
	Inspect the inlet and outlet valves for wear.	Replace the inlet or outlet valves. Refer to page 18 for piston pump replacement.
	Check if the pump stops running after releasing the trigger of the spray gun.	Perform maintenance on the pump. Refer to page 18.
	Filter clogging.	Pressure Relife Procedure on page 7. Inspect and clean the filter.
	Prime valve leaking.	Pressure Relife Procedure on page 7. Repair the prime valve.
	Suction tube tangled and/or connections loose.	Correct tangled suction tube and/or tighten all loose connections.
	Check for damage to the leads from the motor to the pressure control circuit board, or any loose wiring or connectors. Inspect wire insulation and terminals for signs of overheating.	Ensure the terminal plugs are inserted correctly and securely into the terminal sockets. Replace any loose terminal plugs or damaged wires. Reconnect the terminal plugs securely.
	Low stall pressure.	Do either or both: a. Turn pressure control knob fully clockwise. Make sure pressure control knob is properly instakked to allow full clockwise position. b. Try a new transducer.

Type of Problem	What to Check *(if check is OK, go to next)*	What to Do *(When check is not OK, refer to this column)*
Motor runs and pump strokes	Low paint supply.	Refill and reprime pump.
	Suction strainer clogged.	Remove and clean,then reinstall.
	Suction tube or fittings loose.	Tighten;use thread sealant or sealing tape on thread if necessary.
	See if intake valve ball and piston ball are placed properly.Check whether the ball and valve are pasted.See pump manual.	Remove intake valve and clean.Check balls and seats for nicks,replace if necessary.Strain paint before using to remove particles that could clog pump.See pump manual.
	Leaking around throat packing nut which may indicate worn or damaged packings.See pump manual.	Replace packings.Also check piston valve seat for hardened paint or nicks and replace if necessary.Tighten packing nut/wet-cup.See pump manual.
	Pump rod damage.	Replace pump,page 18.
Motor runs but pump does not stroke	Displacement pump pin damaged or missing.	Replace pump pin if missing.Be sure retainer spring is fully in groove all around connecting rod, page 18.
	Connecting rod assembly damaged.	Replace connecting rod assembly. See pump manual.
	Gears or drive housing,page 20.	Inspect drive housing assembly and gears for damage and replace if necessary,page 20.
Motor is hot and runs intermittently	Determine if sprayer was operated at high pressure with small tips,which causes low motor RPM and excessive heat buildup.	Decrease pressure setting or increase tip size.
	Be sure ambient temperature where the sprayer is located dose not exceed 90 ℉ (32.22 ℃) and sprayer is not located in direct sunlight.	Move sprayer to shaded,cooler area if possible.
Building circuit breaker opens as sprayer switch is turned on CAUTION Any short in any part of the motor power circuit will cause the control circuit to inhibit sprayer operation. Correctly diagnose and repair all shorts before checking and replacing control board.	Check all electrical connections for insulation damage, loose connections, or damage to terminals. Also, inspect the wiring between the pressure controller and the electric motor.	Repair or replace any damaged wiring or terminals. Securely reconnect all wires.
	For missing inspection plate gasket,bent terminal forks or other metal to metal contact points which case a short.	Correct faulty conditions.
	Motor control board by performing control board diagnostics.See page 19.If diagnostics indicate, substitute with a good board. CAUTION:Do not perform this check until motor armature is determined to be good.A bad motor armature can burn out a good board.	Replace with a new pressure control board.
Building circuit breaker opens as soon as sprayer is plugged into outlet and sprayer is NOT turned on.	Basic Electric Problems,page 15 of Troubleshooting	Electrician checks electrical circuit.
	ON/OFF switch. Be sure sprayer is unplugged! Disconnect wires from switch.Check switch with ohmmeter.Resding must be infinity with ON/OFF switch OFF,and zero when switch is ON.	Replace ON/OFF switch.
	Check the wiring on the pressure controller for damage or pinching.	Replace damaged parts.

Motor Control Board Diagnostics



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

NOTE:

- Keep a new transducer on hand to use for test.
- NO display dose not mean the sprayer is not presurized. Before repair,relieve pressure,page 7

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

DISPLAYLED	NIXIE DISPLAY	WHAT TO DO
No display		
psi/bar/MPa	Sprayer pressurized. Power connected.	
E=01	IPM temperature is high (4KW).	Clean the debris from the radiator and wait for the drive to cool down before resuming normal operation.
E=02	Communication fault.	Check the communication signal lines between the sensor board and the motor drive. If the signal lines are fault-free, contact the manufacturer for repair.
E=03	Sensor fault.	Check if the sensor is poorly connected or replace it.
E=04	Motor or drive controller connection or mechanical fault.	Inspect the connection between the motor and the drive, and check for any mechanical jamming. After confirming everything is normal, replace the drive for testing. Differentiate between motor or drive faults, then repair the corresponding components!
E=05	Motor or drive overcurrent fault.	Same as E-04.
E=06	IPM alarm	Same as E-05.
E=07	Cleaning status pressure greater than 7Mpa.	Open 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 resolving the issue, wait for the machine to discharge (generally indicated by the display screen turning off) before restarting the machine for use.

Displacement Pump Replacement

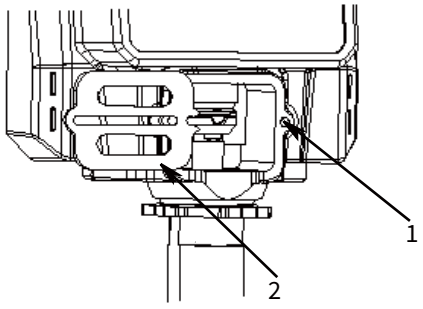
See manual for pump repair instructions.

Removal

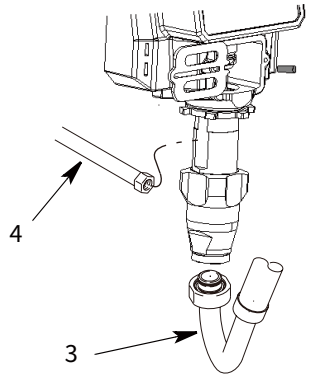


Relieve pressure,page 7.

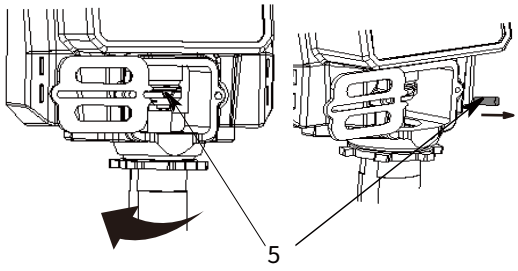
1. Loosen screws(1) and rotate cover(2).



2. Remove suction tube (3) and hose (4).

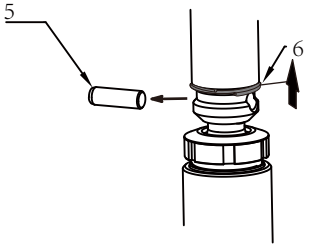


3. Cycle motor until pump pin (5) is in position to be removed.

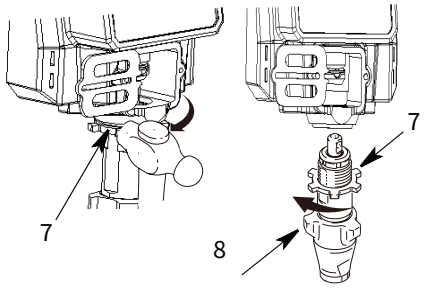


4. Disconnect power cord from outlet.

5. Using a flat screwdriver,push retaining spring (6) up.Push out pump pin (5).



6. Loosen pump jam nut (7).Unscrew and remove pump (8).



Displacement Pump Replacement

Installation

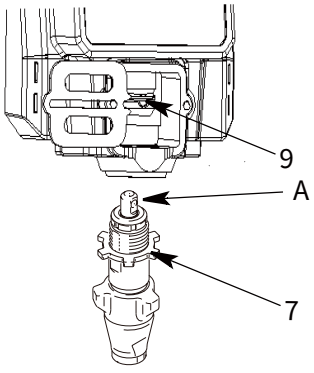
WARNNG

If pump pin works loose,parts could break off due to force of pump operation.Parts could shoot onto air and result in serious injury or property damage.

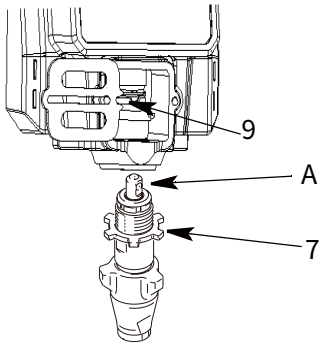
CAUTION

If the pump jam nut loosens during operation,the threads of the drive housing will be damaged.

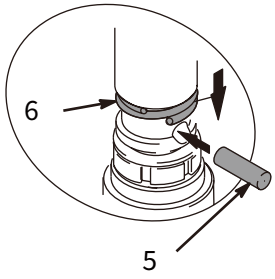
1. Extend pump piston rod full.Apply grease to top of pump rod at (A)or inside connecting rod (9). Install jam nut(7) on pump threads.



2. Install pump rod (A) into connecting rod (9).

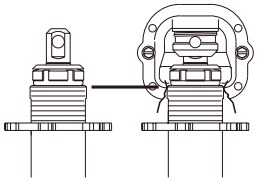


3. Install pump pin (5).Slide retainer spring (6) down into groove and cover pump pin.

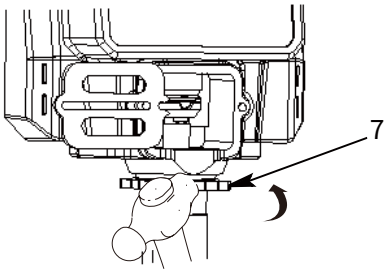


4. Push pump (8) up until pumpthreads engage.

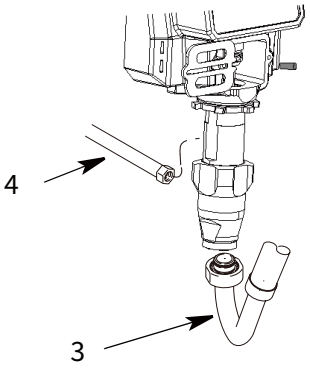
5. Screw the pump in until the end of pump thread is close to the bottom of pump housing.



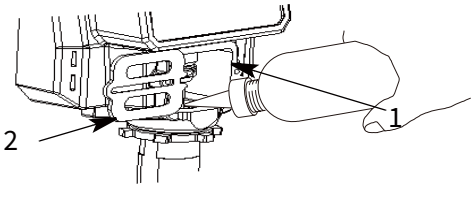
6. Align pump outlet to painting short hose nut.
7. Turn jam nut (7) counter-clovkwise until it stops.Tighten jam nut by hand,then tap with a 20 oz(maximum)hammer from 1/8 to 1/4, torque force approximately 75ft-lb (102N•m).



8. Install suction tube (3) and high pressure hose (4）.Tighten fittings.



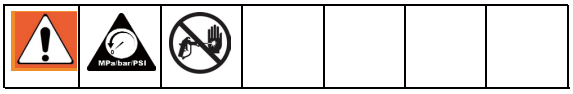
9. Fill packing nut with **(TSL)** until fluid flows onto top of seal.



10. Rotate cover (2).Tighten screws (1).

CAUTION
When disassembling the drive housing (18), take care to prevent the gear cluster (9) and (10) falling off. The gear cluster can be kept inside the motor housing (4) or the drive housing.

Removal

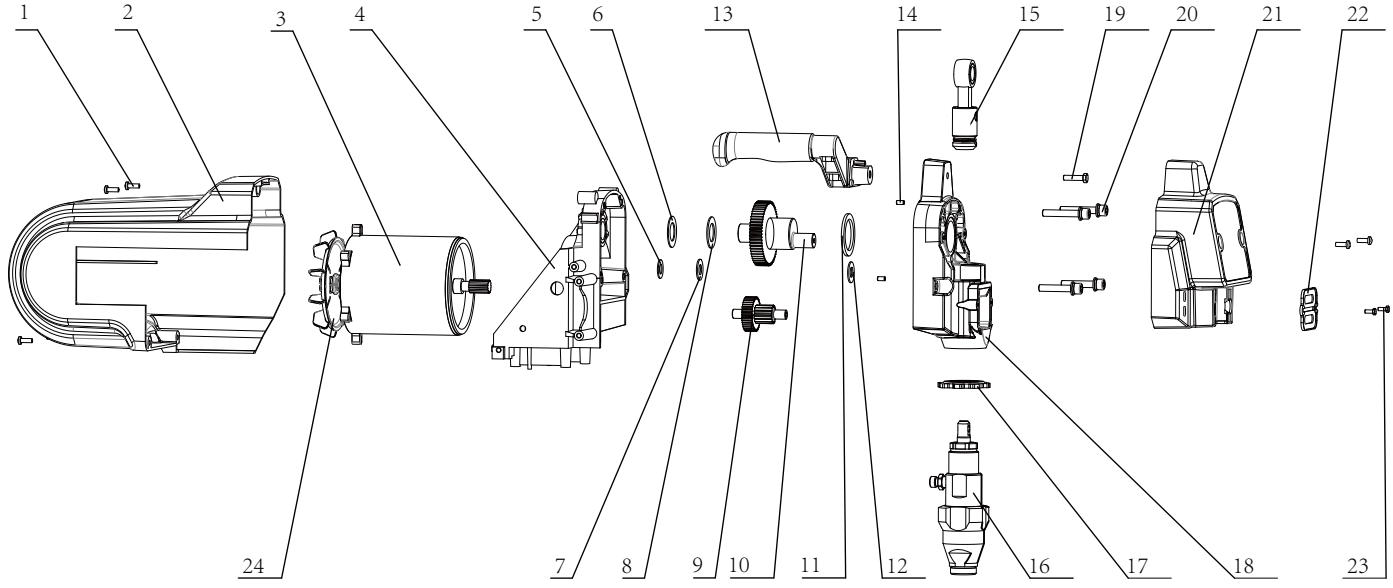


Relieve pressure,page 7.

1. Disconnect the power cord from the socket.
2. Remove screws (23) and pump rod cover (22).
3. Uninstall the pump (16), as detailed in the **Displacement Pump Replacement** on page 17.
4. Remove screws (1) from the shroud (2).
5. Remove the front cover (21).
6. Remove screws (19,20).
7. Pull the drive housing (18) out of the motor Base (4).
8. Remove the gear cluster (9) and (10) and thrust washers (5,6,7,8,11,12) from the drive housing (18).

Installation

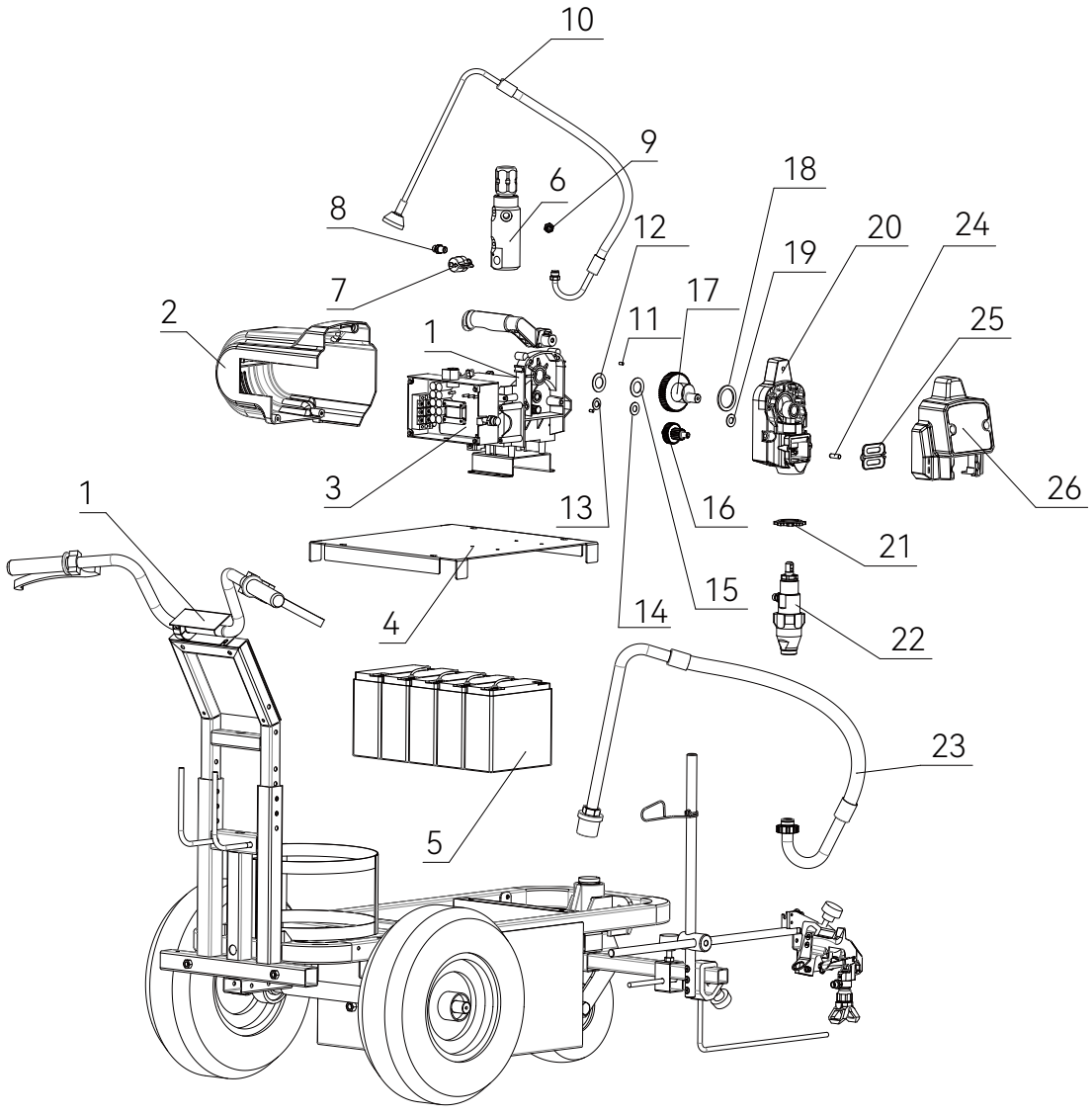
1. Apply a heavy coat of grease to the surfaces of the gears and needle bearings.
2. Install washers (5,7) on the back of gear (9). Insert the gear into the motor base and apply grease for retention.
3. Install washers (6,8) on the back of gear (10). Insert into the motor base (4).
4. Install thrust washer (11) onto gear (10). Place washer (12) onto the front of gear (9).
5. Insert the gear crankshaft (10) into the needle bearings of the drive housing and into the bearing holes of the connecting rod (page18 , 9). Then, push the drive housing (18) into the motor base (4) to close.
6. Install screws (19,20).
7. Install the housing cover (2) and screws (1).
8. Install the front cover (21) .
9. Install the pump (16), as detailed in the Displacement Pump Replacement on page 18.
10. Secure the pump rod cover (22) with screws (23).



Technical Data

Airless Line Striper	
Model No.	HS 2895
	2200 W, 3 HP
Max. Working Pressure	23 Mpa, 3336 Psi
Max. Flow Delivery	2.5 L/min
Max. Tip Size	0.025”
Inlet Paint Strainer	12 Mesh (893 micron)
Outlet Paint Strainer	60 Mesh (250 micron)
Pump Inlet Size	1-1/4-12 UNF
Fluid Outlet Size	1/4 inchs
Wetted Parts	Stainless steel, PTFE, leather, nylon, zinc-plated and nickel-plated carbon steel, tungsten carbide, chrome plating, UHMWPE, acetal, PE .
Dimensions	
Gross Weight	123 Kg
Package Size	214*84*85 cm
Spray Gun	
Max. Working Pressure	37 Mpa, 370 Bar, 5400 Psi
Gross Weight	664 g
Inlet	1/4 NPSM Male
Max. Material Temperature	50 ℃

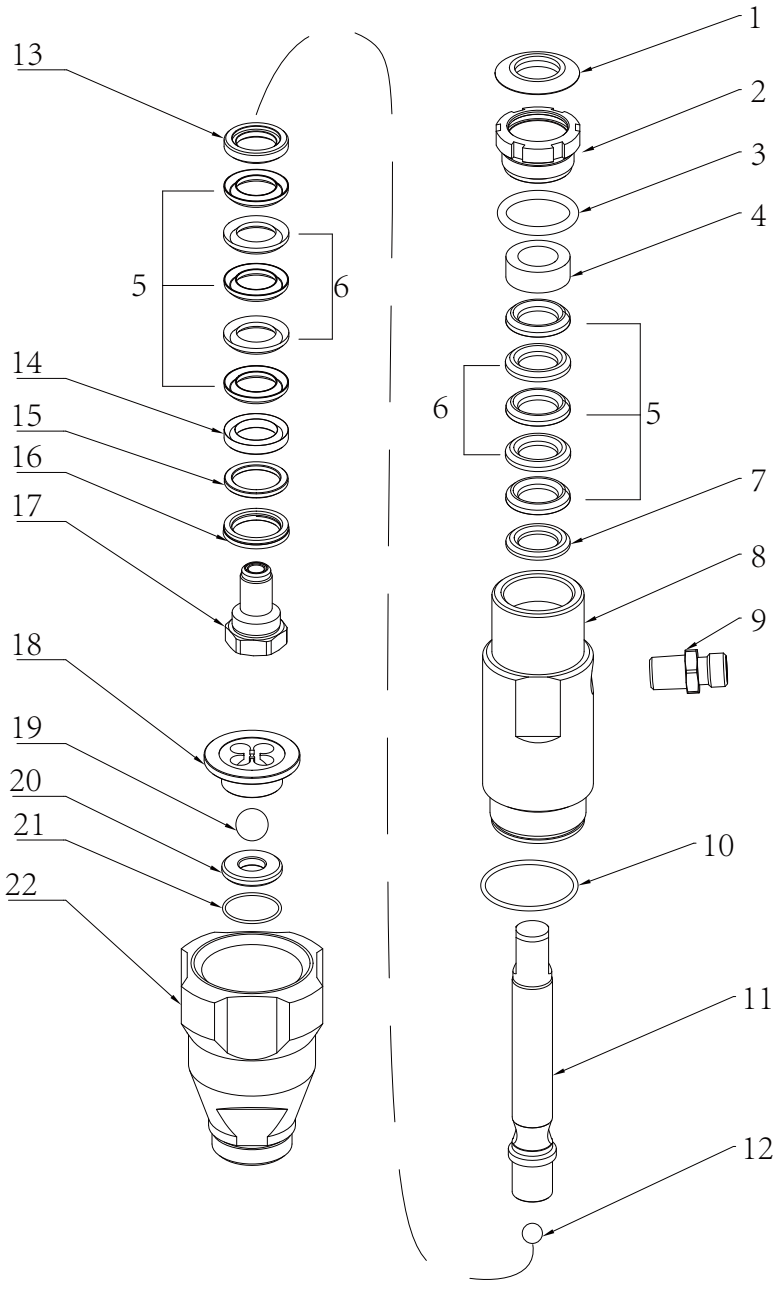
Part (HS 2895 Line Striper)



NO	DISCRIPTION	QTY
1	Frame	1
2	Cover, motor	1
3	Control board assy	1
4	Cover, battery compartment	1
5	Battery (not included)	*
6	Filter	1
7	Prime valve, filter	1
8,9	Nipple, filter	2
10	Drain hose assy	1
11	Pin	1
12	Gasket, steel, gear set	1
13	Gasket, steel, gear set	1
14,19	Gasket,copper, gear set	2

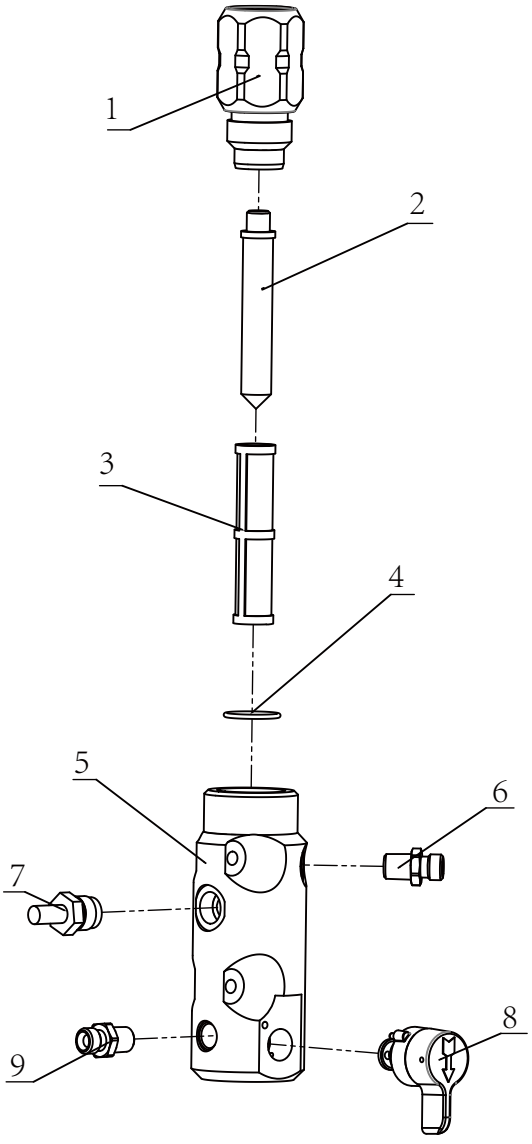
NO	DISCRIPTION	QTY
15	Gasket,copper, gear set	1
16	Drive pinion	1
17	Drive gear	1
18,19	Gasket,copper, gear set	1
20	Drive house assy	1
21	Nut, pump assy	1
22	Piston pump assy	1
23	Siphon hose assy	1
24	Pin	1
25	Cover, pump rod	1
26	Cover, driver house	1

Part (Pump Module)



NO	Name	Quantity
1	SEAL,throat	1
2	Nut	1
3	O-ring	1
4	GLAND,female	1
5	V-packing	6
6	Leather V-ring	4
7	GLAND,male	1
8	Cylinder	1
9	FITTING	1
10	PTFE O-ring	1
11	Piston Rod	1
12	Tungsten steel ball	1
13	GLAND,male,piston	1
14	GLAND,female,piston	1
15	WASHER	1
16	WIPER	1
17	PISTON VALVE	1
18	Ball guide	1
19	Tungsten steel ball	1
20	BALL SEAT	1
21	PTFE O-ring	1
22	Intake Housing	1

Part (Manifold Filter Module)



NO	DISCRIPTION	QTY
1	Cap,manifold	1
2	Inset, filter	1
3	Filter, fluid	1
4	O-ring	1
5	Manifold, fluid	1
6、9	Nipple, stainless steel	2
7	Pressure sensor	1
8	Prime valve,drain	1

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 defecive to an authorized HVBAN distrbutors for verification of the claim. If the claimed defect is verified, HVBAN will repair or replace free of charge any defective parts. This components will be returned to the original purchase CARRIAGE PAID 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 diferent 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.
- When the damage is caused by improper use or functioning, or if the equipment talls, is bumped or by other causes not due to the normal working conditions.
- Whenever the unit disassembled, tampered with or repaired without the authorization of HVBAN.

HVBAN®

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