



USER MANUAL

7500 SERIES: UG7500, UG7500E, UPP7500, UPP7500E, UG7500LE, UG7500HE AUTOMATIC SPRAY GUN CLEANERS



CORPORATION

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REV 2019-02

INTRODUCTION

Uni-ram holds many patents on designs used in its innovative products. Every machine is tested for compliance with Quality Assurance standards. Follow the directions in this manual under Setup, Operation and Maintenance in order to operate this machine safely and effectively. Not following these instruction can lead to malfunction or damage to the machine. Ensure that the manual is readily available for the operator at all times. If you have any questions about the operation of this machine, call Uni-Ram Service Engineer at 1-800-417- 9133.

| | | | | | |
|---|---|-------|------------------------|------------------------|----------|
| MODEL | 7500 | 7500E | UPP7500 | UG7500LE | UG7500HE |
| PRESSURE POT CLEANING AND HOSE CLEANING | | | YES | | |
| PRESSURE POT HOSE CLEANING | | | YES | | YES |
| MANUAL WASH BRUSH | YES | YES | YES | YES | YES |
| MANUAL RINSE WITH SPIGOT | YES | YES | YES | YES | YES |
| COMBO READY | | YES | NO (NOTE) | YES | YES |
| WASH SOLVENT PAIL INCLUDED | YES | YES | YES | YES | YES |
| RINSE SOLVENT PAIL INCLUDED | REQUIRED, NOT INCLUDED | YES | REQUIRED, NOT INCLUDED | REQUIRED, NOT INCLUDED | YES |
| OVERFLOW TUBE AND RISER | NOT REQUIRED | YES | NOT REQUIRED | YES | YES |
| FILTER FOR SPRAY OUT | | | | YES | |
| SHIPPING SIZE (WDH) | 38 X 26 X 68 inches 96 X 66 X 173 cm | | | | |
| SHIPPING WEIGHT (LB / KG) | 185 / 84 | | | | |

NOTE: Model UPP7500E is same as UPP7500 except it is combo ready.

More information is provided on UPP7500, UG7500LE and UG7500HE in the section following CLEANING CYCLE.

COMMON FEATURES

- Automatic Wash, Automatic Air Flush, Automatic Solvent Rinse.
- Flow-through Brush for manual wash. Flow Control.
- Spigot for manual rinse. Flow Control.
- Clean 2 Spray Guns and 2 Pots at the same time.
- Stainless steel inlet filter, located at the end of the suction hose, prevents debris from reaching the pump and wash pail.
- 14 Cleaning Jets with swirl action.
- Shipping Size and Weight: 38" W x 26" D x 68" H, 185 LBS 84 KG.

CAUTIONS AND WARNINGS

- Always disconnect this machine from power sources before performing maintenance.
- **Do not smoke or use near open flames, sparks or heat.**
- **Make sure all ground wires are connected and that unit itself is grounded properly.**

SAFETY EQUIPMENT

- Wear safety eyewear, respiratory protection and protective clothing.
- Wear deluxe extended length neoprene gloves; SAS PN 6588 or Thicksters PN 6602-20 through 6605-20.

UG7500



Wash Pail

Note 1: The stainless steel inlet filter, located at the end of the suction hose, prevents debris from reaching the pump and wash tank. See the section on Maintenance for cleaning of the stainless inlet filter.



Suction Hose

Stainless steel inlet filter located on end of suction hose

SETUP

DELIVERY INSPECTION

- Inspect the shipping carton for any sign of transport damage. Carefully remove the unit from the shipping carton and check the unit for damage. Report any transport damage immediately to the carrier and to Uni-ram Corporation. Initiate a freight claim with the carrier. The manufacturer is not responsible for the freight damage.

Bag of accessories contains the following:

- Manual
- Push on nozzle extension for disposable cup system or conventional cup system(110-430PPS).
- Push on nozzle extension for conventional cup system(110-430).
- Kit-Plug, Trigger Lock Spring, 2 in a package (140-2340).
- Vent and Hood Door Support (780-3723)

LOCATION

Position the unit in a well-ventilated area away from sparks, heat and open flames, at least 6 " from the back wall.

AIR SUPPLY

- Connect a male air supply adapter (not supplied) into the female Air Inlet on the unit. The male air supply adapter is 1/4" NPT.
- Connect the female air supply hose to the adapter. The air supply hose must be at least 3/8" inside diameter. **The air supply pressure must be at least 85 PSI and the supply air must be free from contaminants such as water, dust, rust, tar and grease. If the air supply is not clean and dry install a moisture filter. The operation and longevity of the pump and other components depends on clean dry supply air.**
- To prevent damage to the Diaphragm Pump an internal Air Pressure Regulator has been installed to limit the air pressure to 85 PSI. Do not install a second air pressure regulator or use a pressure set below 85 PSI.

GROUNDING

- Connect the green ground wire at the back of the unit to a ground in the building using the ring terminal on the ground wire.

Note: The pump and metal tube that inserts into each pail are grounded.

Ring Terminal



SOLVENT SELECTION

The adhesion quality of automotive paint has dramatically improved in recent years. The choice of solvent is critical. Only use good quality solvent that is formulated for your paint and intended for use with automatic spray guns cleaners. DO NOT USE CHLORINATED SOLVENT.

- Use quality, compliant solvent such as Naked Gun Gold or equivalent solvent.

PAIL SETUP

The pail setup for the UG7500 is described first, followed by the pail set up for the UG7500E.

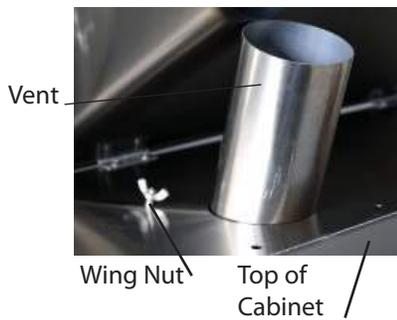
INSTALLATION OF VENT AND HOOD SUPPORT

- The vent kit is located in the accessory kit.
Locate the hole for the vent on the underside of the top of the cabinet. See photo to the right and below, left.
- Push the vent through the hole and install one screw in the front screw hole. Hold the vent in place if necessary and reach on top of the cabinet to install a wing nut onto the screw. See the photo in the lower left below.
- Install the 3 other screws and wing nuts in a similar way. To not tighten the wing nuts.
- Connect blue airline located near vent on inside of sink to vent.
- Place the Hood Support between the wing nut and the top of the cabinet. Tighten the 4 wing nuts. See the photo below right.

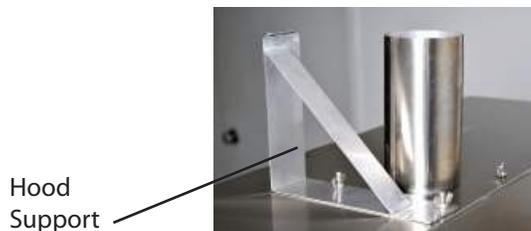
Vent Location



Vent at Top of Cabinet



Hood Support



PAIL SETUP - UG7500

- Open the cabinet door.
- The spray gun cleaner comes with one plastic pail. The black drain hose and suction hose are inserted into the plastic wash pail. See the photo of the unit below. The stainless steel inlet filter is located at the end of the suction hose and prevents debris from reaching the pump and wash tank. See the photo of the filter below. Clean the filter monthly. The procedure to clean the filter is described in the Section, MONTHLY MAINTENANCE.

- Open the drain valve located inside the cabinet. Rotate handle to the vertical position. (see photos on right) Pour 3 gal (12 L) of solvent into the wash tank to fill the wash pail.

cabinet



Drain Valve

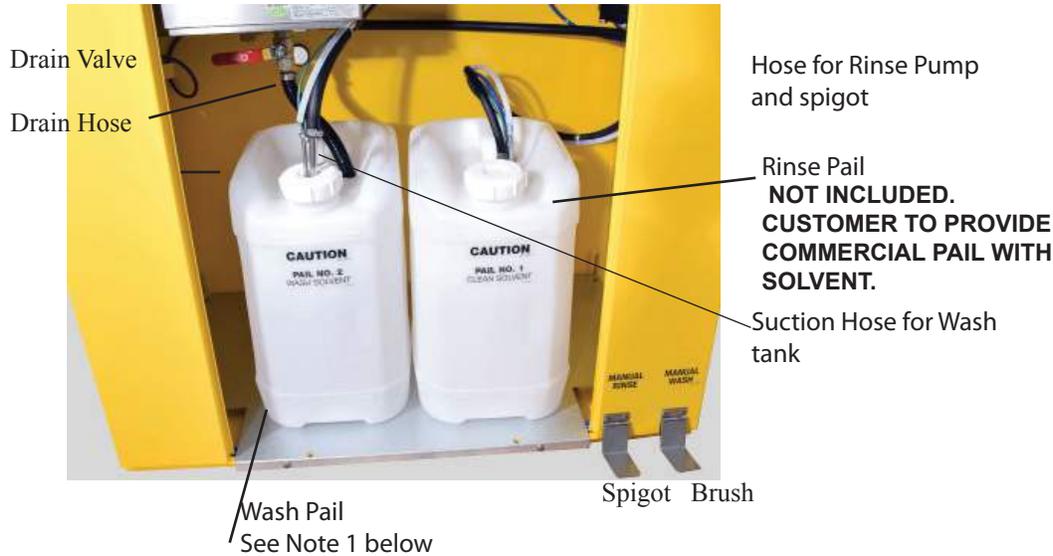
Open



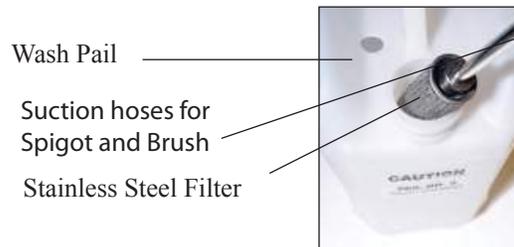
Drain Valve

Closed

- The customer provides the second the second pail with 5 gallons of solvent. This is the "Clean" pail. The opening on the pail must be not larger than 2". The pail must be a pail approved for solvent such as one received from your solvent supplier or a HDPE pail similar to the wash pail in the unit. Insert the rinse pump into the opening and place the 5 gallon pail of solvent in the cabinet on the right side. The rinse pump is stainless steel and located in the bottom of the cabinet.
- Check to ensure the Drain Valve is in the open position (handle in vertical position) and drain hose is in the (left) pail.



Note 1: Stainless steel inlet filter located on end of suction hose



PAIL SETUP - UG7500E

GUN CLEANER - SOLVENT RECYCLER COMBINATION UNITS



1 2 3 4 5 6 7 8 9 10 11 12 13

| ITEM | DESCRIPTION | ITEM | DESCRIPTION |
|------|-------------------------------------|------|--------------------------------|
| 1 | GROUND WIRE | 8 | OVERFLOW TUBE |
| 2 | TRANSFER OUT HOSE TO RECYCLER | 9 | RINSE PUMP |
| 3 | DRAIN HOSE | 10 | AIR SUPPLY FOR RINSE PUMP |
| 4 | SUCTION TUBE FOR FLOW-THROUGH BRUSH | 11 | GROUND WIRE |
| 5 | SUCTION TUPE FOR AUTO WASH | 12 | CLEAN PAIL |
| 6 | WASH PAIL | 13 | TRANSFER IN HOSE FROM RECYCLER |
| 7 | DRAIN VALVE (HORIZONTAL=CLOSED) | | |

PAIL SETUP - UG7500E

- Combo Ready units (UG4000E and UG4500E) come with the pails already installed as shown. Transfer Hoses are provided with Uni-ram Solvent Recyclers designed for Combo operation.
- Fill the Wash Pail with about 3 Gal (12 L) of clean solvent.
- Fill the Rinse Pail with about 5 Gal (19 L) of clean solvent (about 1" below the overflow pipe).
- After setting up the pails, make sure the Drain Valve is open (handle is in the vertical position).

PRE-CLEAN - DISPOSABLE CUP

Disconnect the spray gun from the air hose.

- Squirt solvent into the disposable cup adapter, shown in photo on far right.
- Pull the gun's trigger to flush the solvent through the fluid channel and into the paint waste container (not supplied) for later disposal.



Pre clean Fluid
Passageway

PRE-CLEAN - CONVENTIONAL CUP

Disconnect the spray gun from the air hose.

- Disconnect the cap and pour the paint waste into a paint waste container (not supplied).

CLEANING SPRAY GUNS AND CUPS

- Remove digital air gauge if so equipped.
- Loosen the air cap of the spray gun two full turns.
- Lock the trigger in the open position with the Trigger Lock Spring.

See photos below.



Remove
Gauge



Trigger Lock Spring



Trigger Lock Spring
On Spray Gun

SPRAY GUN INSTALLED IN TANK



Cap points to the corner jets

Air Plug

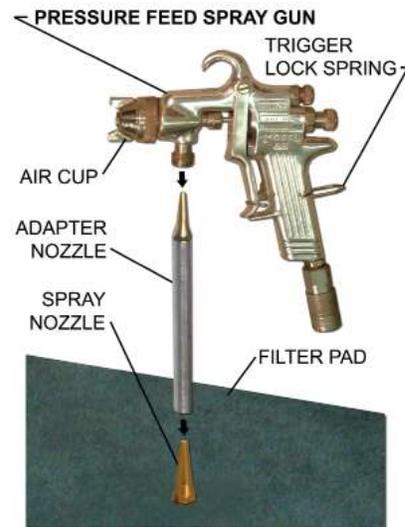
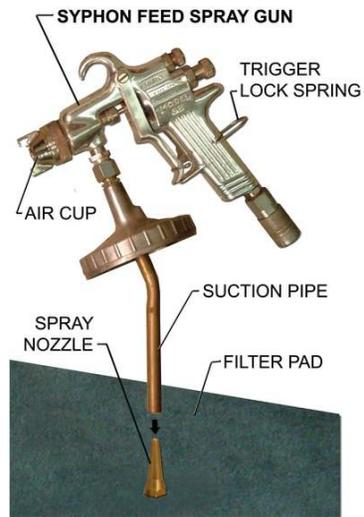
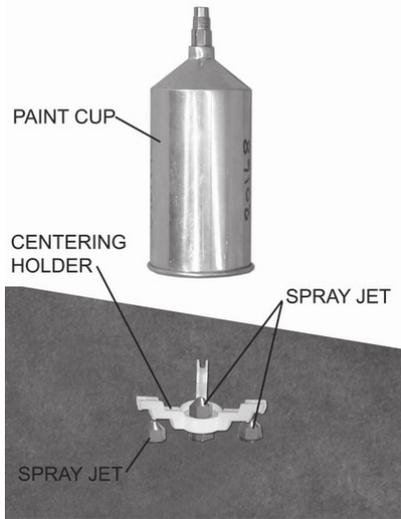
Location for Push On Nozzle Extension for second spray gun

INSTALLING SPRAY GUNS IN TANK

- Place the spray gun on the nozzle with the cap facing the corner. See photo on right and photo above.



Placing Spray Gun on Nozzle Extension



PREVENT SOLVENT FROM ENTERING THE AIR PASSAGE OF SPRAY GUN:

- Insert the plastic plug into the air fitting as in the photo below.
- Positive air will flow through the passage way during cleaning.

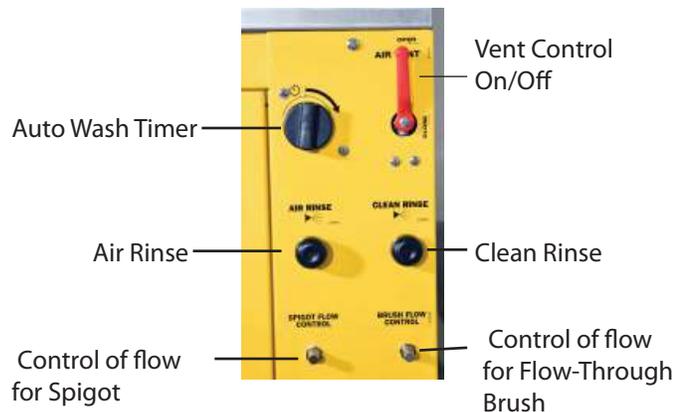


Air Plug inserted into the Air Passage way of the spray gun

- If you disconnect the air plug from your spray gun attach the knurled nut on the chain with the trigger lock spring to the air passageway of the spray gun.

CLEANING CYCLE:

- Close the lid of the spray tank and turn the "Auto Wash Timer" clockwise. See photo below. The wash cycle takes about 60 seconds.
- Push and hold the "Air Rinse" button for about 5 seconds to evacuate the wash solvent and rinse the spray guns. See photo below.
- Press and hold the "Clean Rinse" button for about 5 seconds to send 100 cc of clean solvent through the jets to rinse the the spray guns. See photo below.

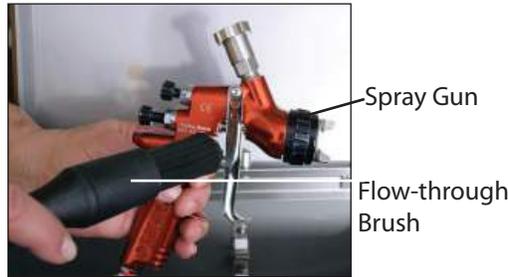


MANUAL WASH

- Open the lid and remove the brush from its holder on the back wall of the wash tank.
- Step on the foot pedal. A dedicated pump delivers wash solvent through the Flow-through brush. To control the flow of solvent through the Brush, adjust the Flow Control, also on the front of the unit.

CONTROL OF FLOW FOR FLOW-THROUGH BRUSH

- See photo above. To increase flow, loosen the locking nut, rotate the dial anti-clock wise, and tighten the locking nut.



Flow-through Brush washing a spray gun

FOR UPP7500, UG7500LE AND UG7500HE USERS ONLY:

FOR UPP7500 USERS ONLY:

Pressure Pot and Spray Gun

• The UPP7500 cleans the pressure pot in the cleaning tank and the cleans the pressure pot hose. Place the pressure pot on top of the the rotating jet stand in the middle of the cleaning tank. Center the pressure pot.

• Follow the procedure under UG7500 - SETUP to prepare and install the spray gun in the spray gun cleaner. If there is insufficient space to locate the spray gun due to the pressure pot clean the pressure pot first then, with the pressure pot in the cleaning tank, clean the spray gun.

• Clean the pressure pot and spray gun following the earlier procedure under Cleaning Cycle.

Hose

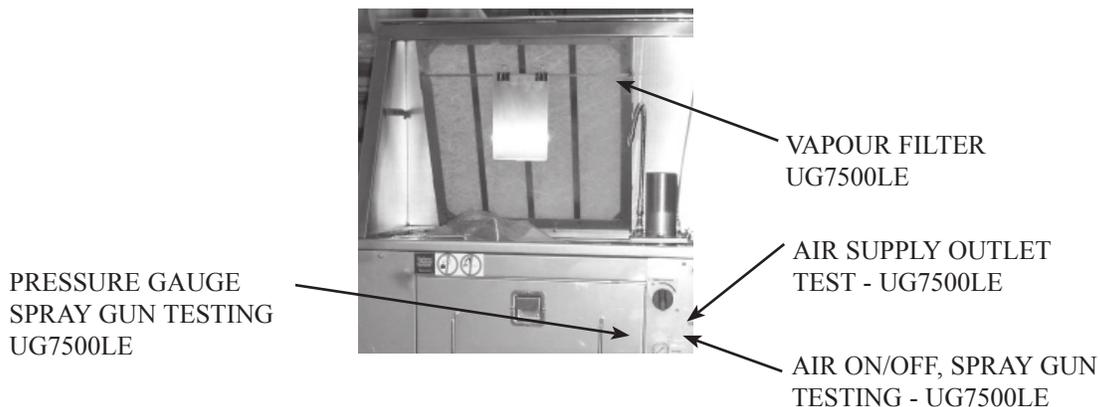
• There are 2 connection points at the side of the UPP7500 for the hose. Connect the hose.

• Move the ball valve to the Hose Cleaning position.
Follow the procedure under Cleaning Cycle to clean the hose.

FOR UG7500LE USERS ONLY

SPRAY GUN TESTING - LE model only

- Connect the Spray Gun to the Air Supply Outlet and turn on the Air using the Air On/Off lever.
- Check the air pressure on the Pressure Gauge. Using the Pressure Regulator (inside the cabinet on the right) adjust the pressure according to the requirements of the Gun (pre-set value is 15-25 SI).
- Test the Gun and turn off the Air when finished.



FOR UPP7500HE USERS ONLY:**Spray Gun**

- The UG7500HE cleans the spray gun and the cleans the pressure pot hose.
- Follow the procedure under UG7500 - SETUP to prepare and install the spray gun in the spray gun cleaner.
- **Pressure Pot Hose**
- There are 2 connection points at the side of the UPP7500 for the hose. Connect the hose.

- Move the ball valve to the Hose Cleaning position.
Follow the procedure under Cleaning Cycle to clean the hose.

MAINTENANCE

- Clean the stainless steel inlet filter each month.

Procedure:

Follow step 1 and step 2 below under REPLACING SOLVENT.

Lift the suction pipe from the wash pail, (see the left photo below) unscrew the stainless steel filter from the nut and clean it with clean solvent in a mixing cup. See the right photo below.

Remove Suction Pipe and Filter



Clean Filter



REPLACING SOLVENT

- Replace the wash solvent when the solvent has lost cleaning effectiveness or after approximately 100 cleanings.

- 1) Remove the clean pail from the cabinet and then remove the rinse pump from the clean pail.
- 2) Close the drain valve (left photo below). Remove the drain hose and suction pipe from the wash pail and take pail out of the cabinet. See middle and left photo below.
- 3) Pour used wash solvent from the wash pail into the waste drum. Return wash pail to the cabinet and insert drain hose and suction hose. Pour 3 gal (12 L) of fresh solvent into the cleaning tank to drain to the wash pail. Top up Clean Solvent pail to 5 gal. (19 L) and return rinse pump and pail to the cabinet.

Drain Valve



Suction pipe with inlet filter and drain hose is located in wash pail.

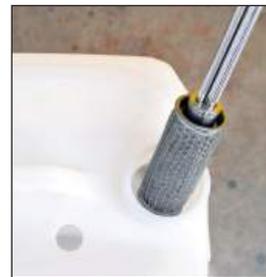


Suction Tube

Wash Pail

Rinse Pail
**NOT INCLUDED.
 CUSTOMER TO
 PROVIDE
 COMMERCIAL PAIL
 WITH SOLVENT.**

Suction pipe with Inlet filter



TROUBLE SHOOTING

| PROBLEM | REASON | CORRECTIVE ACTION |
|--|--|--|
| WASH PUMP MAKES PUMPING SOUND BUT LIQUID DOES NOT FLOW FROM THE JETS | Drain valve closed | Open drain valve (put in vertical position), if not already open |
| | Liquid level too low | Check wash liquid level. Add liquid if less than 1/2 full. |
| | | Fill to 4 gal (11 L). |
| | Debris in pump or suction and output hose | Follow Procedure 1, "Blocked Fluid Passage in Diaphragm pump" in the next section. |
| WASH PUMP MAKES HISSING SOUND AND LIQUID DOES NOT FLOW | Water or contaminants are in air line of pump. | Passage in Diaphragm Pump" in the next section. |
| | Flow Control is closed. | Manual flow control is located on the control panel on the front of the machine. Loosen the locking nut and rotate control to the left to increase flow. |
| | Liquid level too low | Check wash liquid level. Add liquid if less than 1/2 full up to 4 gal (11 L). |
| | Brush is clogged with debris. | Unthread brush from hose and operate foot pedal. If free solvent flow is now seen, replace brush with PN 144-390S |
| BRUSH PUMP DOES NOT MAKE A NOISE AND LIQUID DOES NOT FLOW WITH PEDAL DEPRESSED | Foot pedal switch not functioning | Inspect foot switch for free travel, and lubricate with gun oil. If switch will not travel freely, replace with PN 155-400BF2 |
| | Water in air line causes pump to stall | Follow Procedure 2. "Blocked Air Passage in Diaphragm Pump" in the next section. |
| WASH PUMP DOES NOT STOP UNLESS TIMER IS TURNED BY HAND OR AIR IS SHUT OFF. WASH PUMP DOES NOT START. | Defective Timer | Replace Timer, PN 115-200K. |
| TIMER KNOB SPINS BACK WHEN TURNED | Defective Timer | Replace Timer. PN 115-200K. |

| PROBLEM | REASON | CORRECTIVE ACTION |
|--|--|---|
| INSIDE WALL OF TANK IS COATED WITH PAINT EVEN THOUGH OPERATOR MAINTAINS TANK | Liquid lacks cleaning strength. | Solventborne: Replace solvent and/ or consider better quality solvent. Waterborne: replace water and AQUA-KLEEN mixture. |
| GUNS NOT CLEAN, PUMP WORKING, LIQUID FLOW IS NORMAL | Trigger not locked in open position | Use trigger lock Spring (pn 120-350) |
| | Spray gun is not properly installed on nozzle | Reinstall with proper adapter. |
| | Solventborne: incompatible solvent Waterborne: replace water AQUA-KLEEN mixture | Solventborne: use compatible solvent Waterborne: replace water AQUA-KLEEN mixture |
| | Plugged jets | Clean the jets or replace the jets. |
| SOLVENTBORNE: SOLVENT APPEARS RED OR ORANGE | Water in solvent is corroding the metal pail. | Replace or recycle wash solvent. Use a HDPE pail approved for use with solvent. |
| DEPRESSING CLEAN RINSE BUTTON DOES NOT PROVIDE CLEAN RINSE LIQUID | Rinse Pump is leaking. | Replace the rinse pump, PN URP-100SF |
| CLEAN RINSE IS DIRTY | | Replace Combination Valve, PN UVB-400KIT. |

TROUBLESHOOTING PROCEDURES PROCEDURE 1

Blocked Fluid Passage In Diaphragm Pump

If the pump sounds like it is working but liquid does not flow, clear the fluid passage as follows:

- Remove suction tube from the pail and blow air at 85 PSI into the INLET Liquid Hose (see diagram). Step on foot pedal to activate pump. This procedure may have to be repeated several times. If this procedure does not help, blow some water into the suction hose using a spray gun, wait one minute and step on foot pedal to activate pump. This procedure may have to be repeated several times. If this procedure does not work, the pump must be replaced.

If you need to replace the pump log-on to Service Channel and Fixxbook or call the Uni-ram Service Engineer.

The warranty on the diaphragm pump is two years from date of purchase.



This procedure will also clear a blockage in the fluid line for the brush. Follow the same procedure to clear a blockage in the automatic nozzle except turn the timer instead of stepping on the foot pedal.

PROCEDURE 2

Blocked Air Passage In Diaphragm Pump

If there is a steady hissing sound and the pump is not cycling, the spool valve has stalled due to a blocked air passage. Follow the procedure below to clear the blockage.

- Connect a blow gun to an 85 PSI source. Locate the blue hose that extends from the air exhaust port of the diaphragm pump. Use a blow gun to blow air into the open end of this hose. Turn timer. If the procedure is successful, the pump will start working. The procedure may have to be repeated several times. If this procedure does not work, replace the pump.
- Cause:** Contaminants in the air supply (water, oil, solid particles etc)
- Preventative Action:** If necessary, install an Airline (Moisture) Filter.



PROCEDURE 3

Blocked Passage in Air Line

The components in the air line are the **diaphragm pump, air valve, foot pedal, 3-way ball valve and regulator.** See the **Flow Diagram** and the section: **Replacement Parts.**

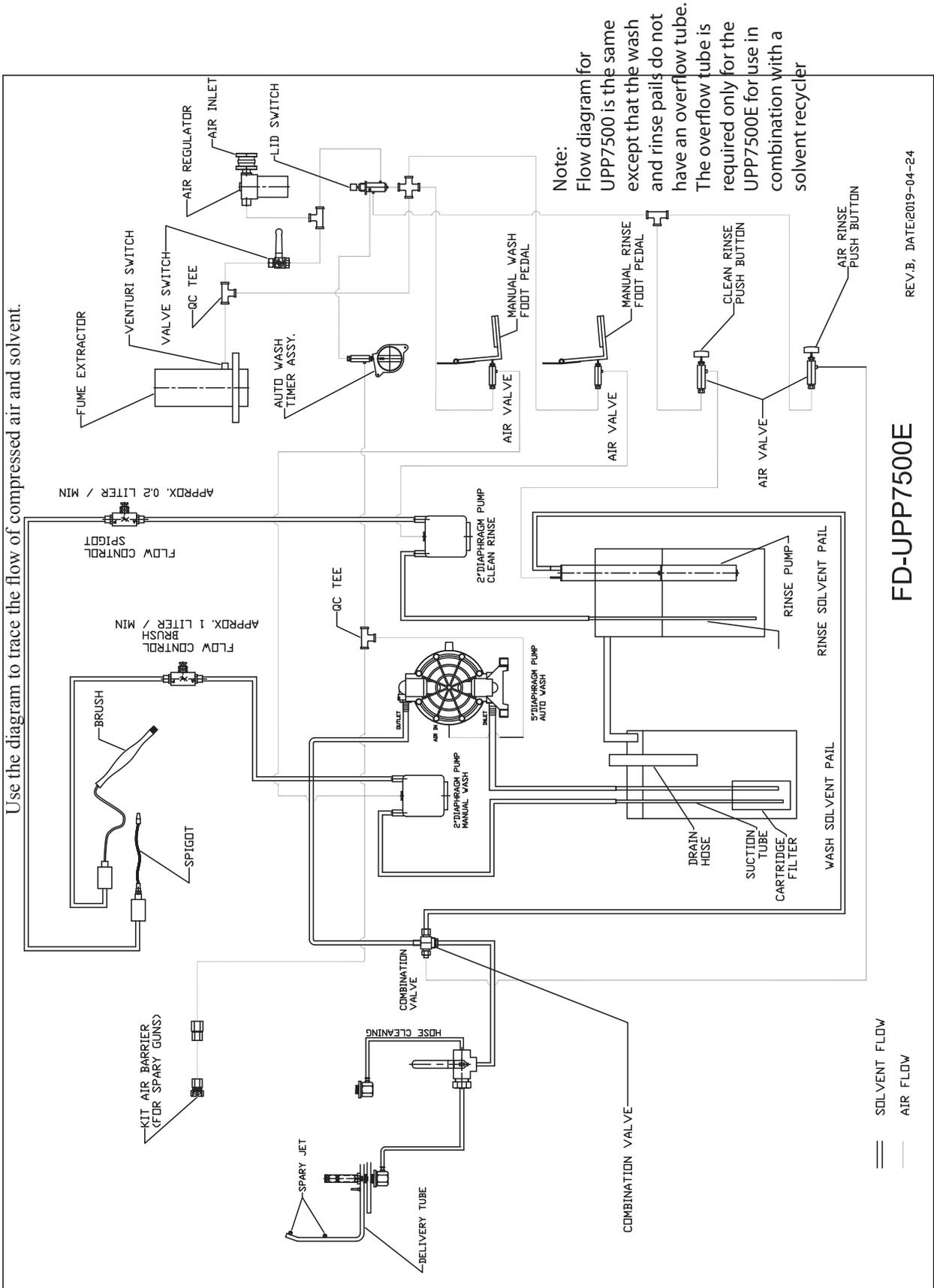
To troubleshoot a component:

- 1) Disconnect the air line to the component using the quick disconnect.
- 2) Step on foot pedal and check for presence of positive air pressure in the air line. If there is ample positive air pressure, replace the component.

If air pressure is absent, there is a faulty component upstream. Reconnect the air line and check the operation of the next component upstream by following steps 1 and 2 above.

UPP7500E FLOW DIAGRAM

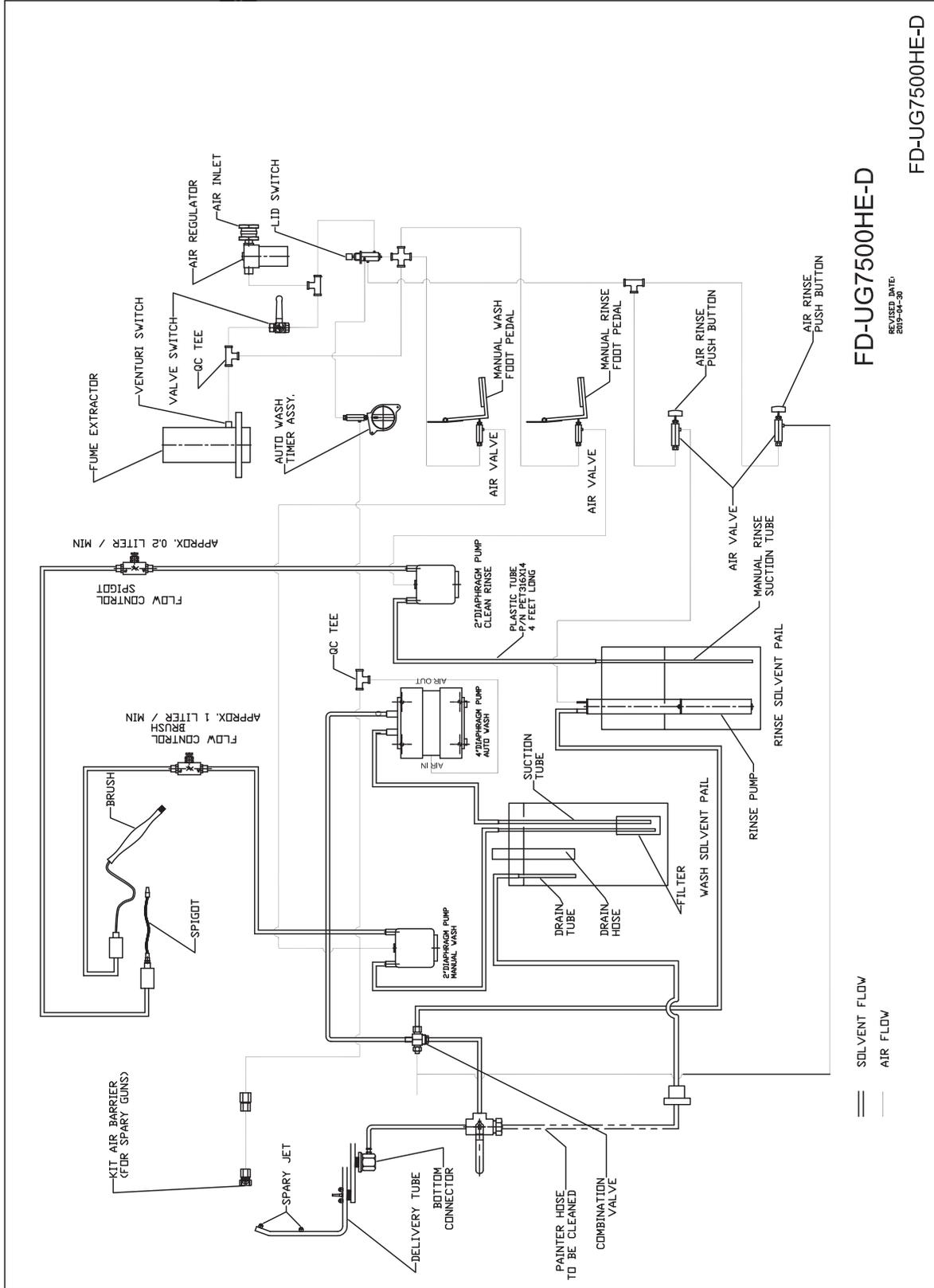
Use the diagram to trace the flow of compressed air and solvent.



FD-UPP7500E

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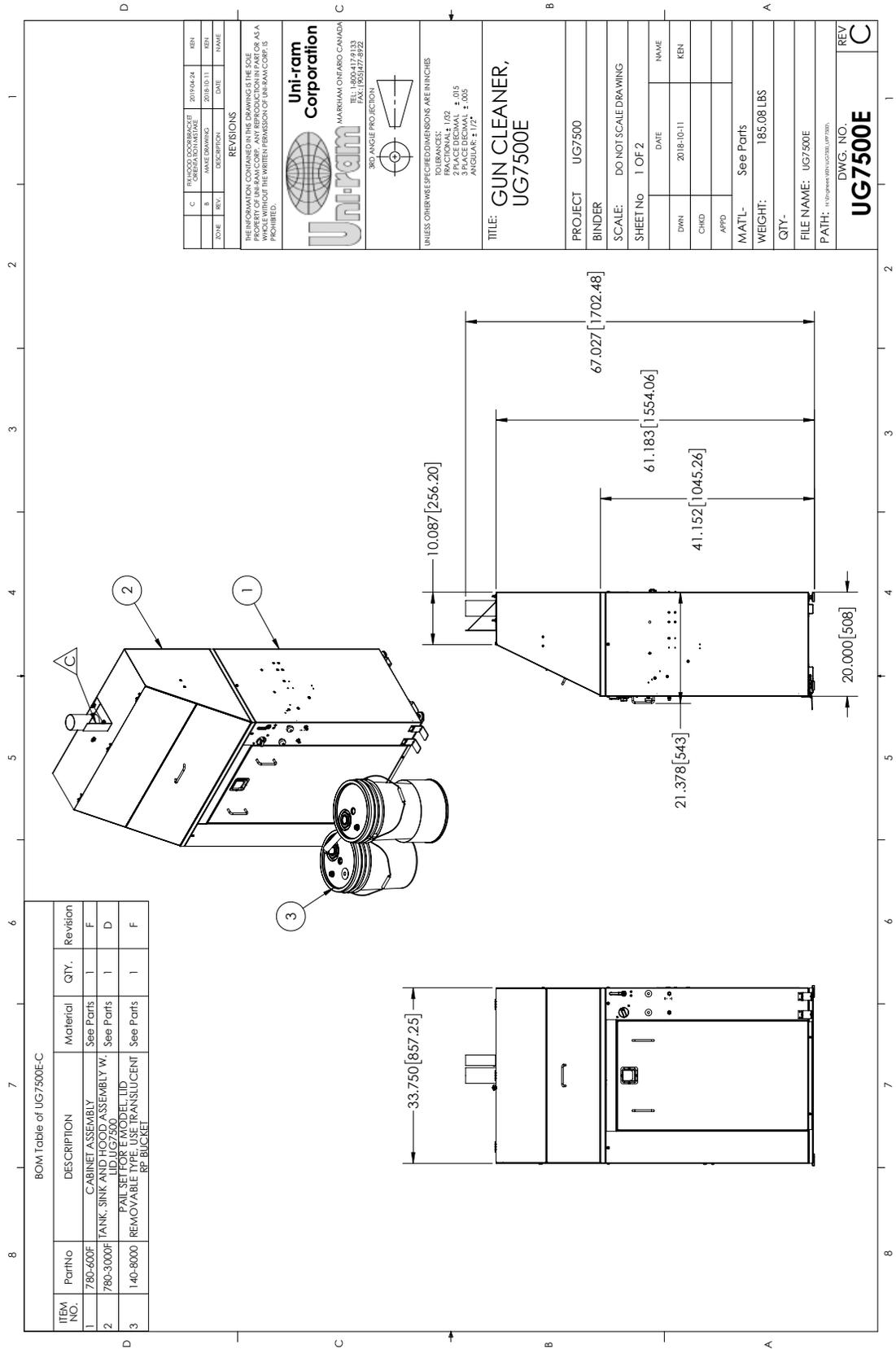
UPP7500E FLOW DIAGRAM
Use the diagram to trace the flow of compressed air and solvent.



FD-UG7500HE-D

REVISED DATE
2019-02-28

FD-UG7500HE-D



REPLACEMENT PARTS

| Part No. | Description |
|------------|---|
| 110-430PPS | Nozzle Adapter, Push On, Disposable and Conventional Systems |
| 100-413F | Paint Cap Holder |
| 115-200/K | Mechanical Timer Assembly, 5 minutes |
| 140-230 | Air Passage Plug |
| 140-2340 | Trigger Clamp & Plug Kit |
| 144-399 | Flow-Through Brush |
| 144-390 | Flow-Through Brush with Hose and Fittings |
| 144-397 | Hose for Flow-Through Brush |
| 100-835 | Ground Wire for Gun Cleaner, 18G, Green, 4 FT |
| UDP4TA | 4" Dual Diaphragm Pump (Main Pump) |
| UDP2TAB | 2" Dual Diaphragm Pump (for Flow-through Brush) |
| 150-8115RT | Solvent Wash Pail |
| 150-8114RT | Clean Rinse Pail |
| | |
| Part No. | Description |
| 110-430 | Nozzle Adapter, Push On, Conventional Systems Only |
| 110-430PPS | Nozzle Adapter, Push On, Disposable and Conventional Systems |
| 780-3530 | Nozzle Adapter, Disposable Cup Systems Only |
| 100-413F | Paint Cap Holder |
| 115-200/K | Mechanical Timer Assembly, 5 minutes |
| 140-230 | Air Passage Plug |
| 140-2340 | Trigger Clamp & Plug Kit |
| 144-399 | Flow-Through Brush |
| 144-390 | Flow-Through Brush with Hose and Fittings |
| 144-397 | Hose for Flow-Through Brush |
| 100-835 | Ground Wire for Gun Cleaner, 18G, Green, 4 FT |
| 780-8000 | 2-Pail Set with overflow tube etc (does not include Hoses & Fittings for connecting to Solvent Recyclers) |
| UDP4TA | 4" Dual Diaphragm Pump (Main Pump) |
| UDP2TAB | 2" Dual Diaphragm Pump (for Flow-through Brush) |
| 780-8120P | Clean Rinse Pail |
| 750-815P | Overflow Tube |
| 780-8110P | Wash Pail |
| 780-8116F | Riser |



Full Product Warranty

These Uni-ram products have been engineered and manufactured to high performance standards. Each unit has been subjected to detailed factory testing before shipment.

This product comes with a one-year full warranty from the date of purchase. Uni-ram Corporation reserves the right to repair or replace the unit, free of charge, to the original purchaser if a part is found to be defective in material or workmanship as determined by factory service personnel. The items listed below under "Conditions of Warranty" as consumables are not covered.

Uni-ram reserves the right to direct the customer to ship the unit collect to the Uni-ram factory or to an approved Service Center for repair using the Uni-ram Return Goods Procedure or to repair the unit on-site. To prevent damage in transport, the purchaser must ship the unit in the original packaging or use alternate adequate packaging. All units must be **shipped clean and free of liquid.**

Diaphragm Pump:

We are pleased to advise that the warranty on the diaphragm pump, the heart of the spray gun cleaner, comes with a 2 year replacement warranty. If, in the unlikely event your diaphragm pump fails during the first two years of service, call Uni-ram Service at 1-800-417-9133. We will send you a new pump free of charge and arrange for the return of your original pump.

Conditions of Warranty:

As Uni-ram Corporation has no control over the working conditions or circumstances under which the purchaser stores, handles or uses the product, Uni-ram makes no warranty or claim, either expressed or implied with respect to this product's fitness for any purpose or the result to be obtained from its use. This condition applies to the sale of all products and no representative or distributor of Uni-ram Corporation has the authority to waive or change these conditions.

This warranty applies only to the original purchaser and does not apply if the unit has been misused, overloaded, neglected, altered or used for any purpose other than those specified in the operating and installation instructions. Deterioration due to normal wear is not covered by this warranty. Damage due to accident, transportation, fire, floods or acts of God is also not covered. Units whose serial numbers have been altered or removed are not covered. The warranty is invalid if unauthorized chemicals as noted in the manual or liquids with acid content are used in this unit. Unauthorized attempts at self-repair or alterations by the owner also invalidate this warranty. Interior or exterior finishes are not covered by this warranty.

Consumable Items are not covered by this warranty (eg: gaskets, screens, bags, filters, nozzles and air jets).

This warranty replaces all other warranties expressed or implied by statute or otherwise.

To make a claim, call Uni-ram Service at 1-800-417-9133 and quote the serial number of the unit.