It is recommended to print this page, laminate it and attach it to the machine for easy reference

WARNING

SPRAY GUN AND MACHINE MUST BE CLEANED PROPERLY IMMEDIATELY AFTER EVERY USE.
FAILURE TO DO SO WILL DAMAGE MACHINE AND VOID WARRANTY.

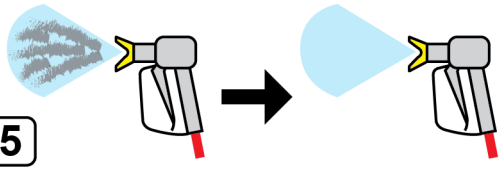
CLEANING PROCEDURE

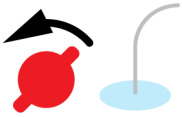
1. 
SET SPRAY VALVE TO BYPASS TO RELEASE PRESSURE

2. 
PLACE INLET TUBE INTO LARGE BUCKET OF CLEAN WATER/SOLVENT

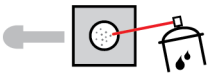
3. 
SET SPRAY VALVE TO SPRAY

4. 
SWITCH MACHINE ON

5. 
SPRAY WATER/SOLVENT THROUGH MACHINE UNTIL WATER/SOLVENT COMES OUT CLEAN

6. 
SET SPRAY VALVE TO BYPASS TO CLEAN BYPASS TUBE UNTIL WATER/SOLVENT COMES OUT CLEAN

7. 
SWITCH MACHINE OFF

8. 
DISCONNECT INLET TUBE & SPRAY SMALL AMOUNT OF LUBRICANT INTO PUMP INLET PORT

User manual

Unimac Airless Paint Sprayer UM-SP-35

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

[Revision 5.0 April 2018]

Table of Contents

Safety

Only qualified persons should install, operate, maintain, and repair this unit.

ATTENTION! This manual is provided to assist the owner of the product to understand the functions it provides and how to prepare the equipment. This manual does not seek to teach the user how to perform the actual task it is used for. It is strongly recommended that a comprehensive training course on the machines use, safe handling and operation be completed before attempting to use this machine.

It is important you read and understand the instruction manual before use and keep the manual in a safe place for future reference.

Safety precautions must be observed to reduce the risk of personal injury when operating this machine.

It is strongly recommended that a comprehensive training course on machine use, handling and operation be completed before attempting to use this machine.

⚠ **IMPORTANT!** Like all power equipment this unit must be handled carefully.

⚠ **DANGER!** Electric Shock can kill.

⚠ **DANGER!** Exposure to fumes and gases can damage the lungs and respiratory system or cause asphyxiation.

Work area safety

Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate equipment in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Equipment creates sparks which may ignite. Keep children and bystanders away while operating equipment. Never allow children to access the machine. Avoid operating while people, especially children or pets are nearby. To reduce the risk of injury or damage, do not allow any other persons within a radius of 5 metres of your own position.

Personal safety

Stay alert, watch what you are doing and use common sense when operating equipment. Do not use equipment while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating equipment may result in serious personal injury. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries. Ensure the equipment is switched off before connecting a to power source, picking up or carrying the equipment. Never carry equipment with your finger on the switches or trigger. Remove any adjusting key or wrench before turning the equipment on. Do not overreach. Keep proper footing and balance at all times. This enables better control of the equipment in unexpected situations. Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from the work area. Loose clothes, jewellery or long hair can be caught in moving parts. If devices are provided for the connection of dust and fume extraction and collection facilities, ensure these are connected and properly used. 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 eye wear.
- Clothing and respirator as recommended by the fluid and solvent manufacturer.
- Gloves.
- Hearing protection.

Equipment safety & care

Do not force the equipment. Use the correct equipment for your application. The correct equipment will do the job better and safer at the rate for which it was designed. Do not use the equipment if it is found to be faulty, faulty equipment that cannot be controlled is dangerous and must be repaired. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing equipment. Such preventive safety measures reduce the risk of starting the equipment accidentally. Store idle equipment out of the reach of children and do not allow persons unfamiliar with the equipment or these instructions to operate the equipment. Electrical equipment is dangerous in the hands of untrained users. Maintain equipment. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the equipment's operation. If damaged, have the equipment repaired before use. Many accidents are caused by poorly maintained equipment. Use the equipment, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the equipment for operations different from those intended could result in a hazardous situation. Keep handles dry, clean and free from oil and grease. Slippery handles do not allow for safe handling and control of the tool in unexpected situations. To prevent earlier wear of the sprayer and even equipment failure, make sure paints and solvents to be used with the sprayer are clean and free from impurities. Before connecting your sprayer to power source, check hoses for cuts, leaks, abrasion or damage or movement of couplings. Before connecting check all valves, controls and indicators to make sure they function properly. If an extension cord is needed, use one that is heavy enough, as an undersized cord will cause greater drop in line voltage causing loss of power and overheating. Make sure the machine and paint bucket are placed on a level service and are secure when working.

As the airless paint sprayer is a high-pressure power tool, any inattention or Improper operation, maintenance on your unit may result in equipment damage or severe personal injury. After each use, relieve pressure in the system before turning off the motor, and then clean the parts paint has flowed through with water or other appropriate solvents.

Electrical Safety

When using mains-powered tools, basic safety precautions, including the following, should always be followed to reduce risk of fire, electric shock, personal injury and material damage. The electric motor has been designed for 230V and 240V only. If the supply cord is damaged, it must be replaced by an electrician or a power tool repairer in order to avoid a hazard. If using an Extension Lead Always use an approved extension lead suitable for the power input of this tool. Before use, inspect the extension lead for signs of damage, wear and ageing. Replace the extension lead if damaged or defective. When using an extension lead on a reel, always unwind the lead completely. Use of an extension lead not suitable for the power input of the tool or which is damaged or defective may result in a risk of fire and electric shock. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any international / converter / adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock. Use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

Airless spray gun safety warnings

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. NEVER under any circumstances aim the nozzle at another person or animal. In the event of an injury occurring, seek medical advice immediately. The spray gun must not be used for spraying flammable paints and solvents. Always ensure there is adequate ventilation when spraying. The use of ear protection is recommended. Eye protection is recommended to keep hazardous vapours and liquids out of eyes. Always wear a face mask when spraying. Always read the paint manufacturers thinning instructions before using. Always keep the spray basket nozzle in place during use. Never allow the spray to come in direct contact with the skin. NEVER immerse the spray gun in liquid. This could lead to electric shock, personal injury and material damage. The spray gun must not be cleaned by using flammable liquids. NEVER spray near a naked flame, including an appliance pilot light. NEVER smoke whilst spraying. NEVER allow children to operate or play with the spray gun. Before cleaning, always disconnect the appliance from the mains supply. Always disconnect from mains supply when refilling the paint pot. After every use ensure you clean your spray gun thoroughly. NEVER use the spray gun outside when it is raining. Keep electrical equipment at a safe distance from spray painting zones. Avoid old footwear or footwear with paint, oil or wax stained soles. When cleaning the spray gun, check that the high voltage supply is switched off. Care should be taken to prevent static discharge during spray painting. Information on controlling static electricity can be found in AS/NZS 1020: The control of undesirable static electricity. The Airless Spray Gun operates at a very high pressure. For safe operation the following must be observed at all times. Do not point the spray gun at yourself or any other person. Injury from penetration to the skin and paint solvents being injected into the body can result. Always check for leaks and correct operation before use. Never operate the spray gun if there are any leaks or faults. Faults or leaks can cause injury. Release the pressure when not in use. Pressure can remain in the unit and hose when switched off. Injury where paint or solvent injection into the skin or body occurs can be very serious. Always seek professional medical help and advise the paints or solvents used.

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 equipment only in well- ventilated area. Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). Sprayer generates sparks. When flammable liquid is used in or near the sprayer or for flushing or cleaning, keep sprayer at least
20 feet (6 m) away from explosive vapours. 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. Ground equipment and conductive objects in work area. 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 a working fire extinguisher in the work area.

Skin 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 gun at anyone or at any part of the body. Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body, glove, or rag. Engage trigger lock when not spraying. Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

Confined spaces

Spray painters sometimes have to work fully or partly in confined spaces with poor ventilation or restricted entry and exit points. The main hazards presented by this type of work environment are lack of oxygen, toxic or flammable and explosive vapours, engulfment and mechanical equipment. Associated health risks include burns, electrocution, suffocation and asphyxiation, poisoning, crush injuries, brain damage and death. If possible, remove the object to be painted from the confined space. Use mechanical ventilation systems and non-sparking tools (if there is a flammable atmosphere). If an air- supplied respiratory device is needed, protect the breathing line at all times. Allow only people wearing correct personal protective equipment (PPE) to enter the space. More information on confined spaces can be found in the Confined Spaces Code of Practice.

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 any applicable guidelines.
NEVER use the following in your airless sprayer;

- Bleach, chlorine products or other corrosive chemicals.
- Tri-sodium phosphate products.
- Ammonia products.
- Acid-based products.

These chemicals will harm the unit and will damage the surface being cleaned. Use of these items will void all warranty. Use a standard liquid car wash or similar detergent.

⚠ **WARNING!** Risk of fluid injection and blood poisoning. High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, electrical equipment or the appliance itself.

⚠ **WARNING!** High pressure hoses, fittings and couplings are important for the safety of the appliance. Use only hoses, fittings and couplings recommended by the manufacturer.

⚠ **WARNING!** Do not use the appliance within range of persons.

⚠ **WARNING!** High pressure equipment shall not be used by children or untrained personnel.

⚠ **WARNING!** This appliance must be attended during operation.

⚠ **WARNING!** To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer.

⚠ **WARNING!** Do not use the appliance if important parts of the appliance are damaged, e.g. safety devices, high pressure hoses, trigger gun.

⚠ **DANGER!** Always wear approved safety glasses. Wear protective clothing to protect against accidental spraying. Ear muffs are needed in some areas where water jet or engine results in noise.

⚠ **IMPORTANT!** If fluid leaks from a connector then optional Teflon plumbers tape should be used.

⚠ **IMPORTANT!** Plumbers PTFE Teflon Thread Sealing Tape is not supplied with the machine. The tape allows a water tight seal of the connector thread when screwed in to the turbo head. Teflon Sealing Tape is available from most hardware stores and plumbing outlets. Typically 4 layers of Teflon sealing tape around a threaded part are sufficient to create a seal.

⚠ **ATTENTION!** Your airless sprayer “PUMP” is shipped with oil; there is no need to add oil to the pump.

⚠ **WARNING!** Using the wrong oil can damage your engine and void warranty.

⚠ **Acceptable Oil Grade:** 80W-90, SAE 90 or 85W-90 Gear Oil only.

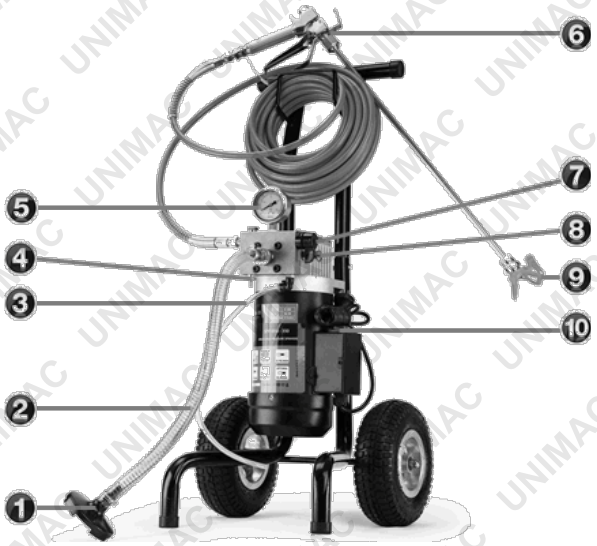
⚠ **IMPORTANT! - Machine, flammable liquid or Electrical Safety;** If you are not familiar with safe operation / handling of this machine, or are in any way unsure of any part of this products suitability or correct use for your application you should complete training conducted by a person or organisation qualified in safe use and training related to this product.

Some experts believe the use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

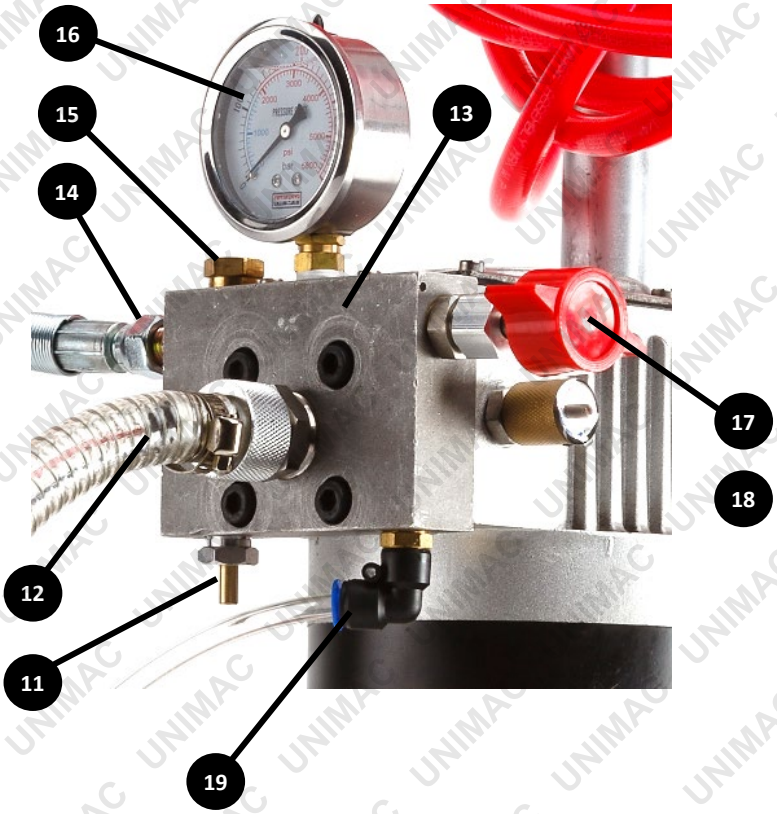
- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose/broken/damaged/missing parts, wear or leaks (if applicable) before each use. Never use a product with loose/broken/damaged/missing parts, wear or leaks (if applicable).
- Product must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or it's representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

Parts Identification

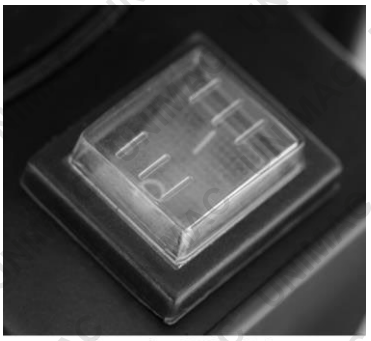
⚠ **ATTENTION!** Products covered by this manual may vary in appearance, assembly, inclusions, description and packaging.



1. Inlet Filter
2. Inlet Hose
3. Return Hose
4. Manual Primer
5. Pressure Gauge
6. Spray Gun
7. Spray / Prime Control Valve
8. Pressure Control Valve
9. Spray Tip
10. Motor On / Off Switch



11. Manual Primer
12. Inlet Hose / Connection
13. Manifold
14. Outlet Hose / Connection
15. Outlet Valve
16. Pressure Gauge
17. Spray / Prime Valve
18. Pressure Control Valve
19. Return Hose

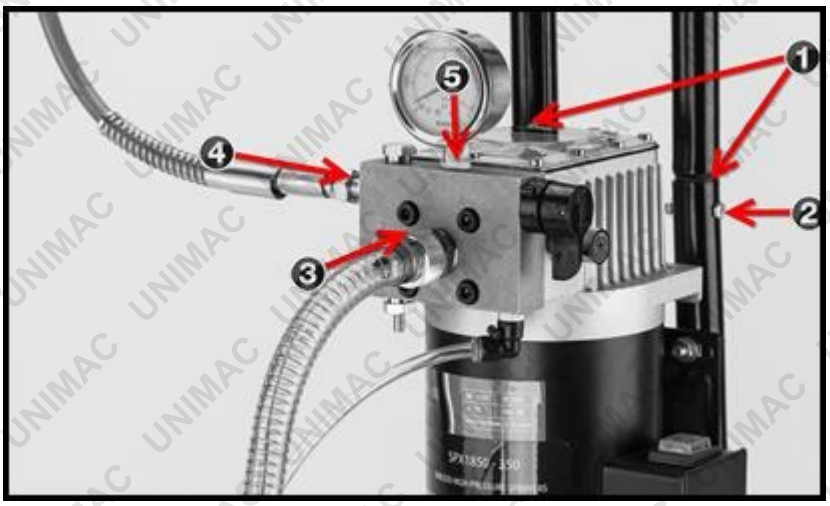


Power On / Off Switch

Assembly

Video Tutorial:
Assembly and Setup

Pump Unit



1. Attach the handle;
    a. Remove both bolts on the “handle bar” and set aside.
    b. Insert the handle into the air sprayer frame.
    c. Using the bolts from step a, attach the handle to the frame firmly using a spanner.
2. Attach the inlet hose to inlet valve on the front of the “pump manifold” making sure the connection is secured using a spanner. Be careful not to over tighten.
3. Attach high pressure hose on to the outlet valve.
4. Attach the pressure gauge;
    a. Using plumbers teflon tape, run 2-3 layers clockwise around the thread of the pressure gauge.
    b. Screw the gauge into the top of the inlet manifold turning clockwise, hand tight plus half a turn and in a position where the gauge can be comfortably read.

Spray Gun

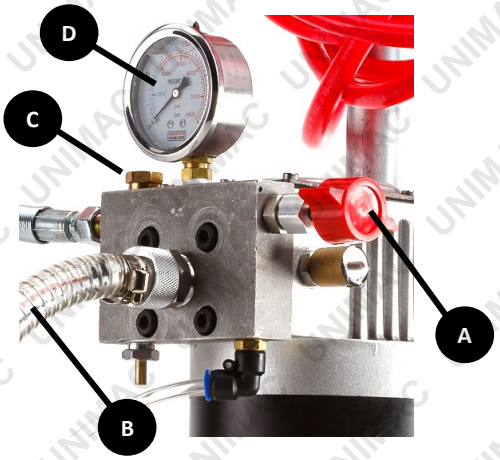
1. Attach the spray gun (1) to the high pressure outlet hose (2).
2. Attach the extension tube (3) to the spray gun nozzle, if required.
3. Attach the spray tip (4) to the extension tube or spray gun nozzle.

Before Use

⚠ **IMPORTANT!** Test your airless sprayer for leaks before every use.

⚠ **IMPORTANT!** Never test spray on the actual work piece, always use an item that can be discarded.

1. Rotate the spray/prime valve (**A**) fully left (anti-clockwise) – this is the "priming" position.
2. Place the inlet tube (**B**) into a bucket of water.
3. Switch the motor on. In a few seconds, fluid will begin to flow up through the inlet tube and flow out from the outlet valve (**C**). If required, push the manual primer repeatedly to help to draw liquid into the pump
4. Rotate the spray/prime valve (**A**) fully right (clockwise) – this is the "spray" position.
5. Observe the pressure gauge (**D**), once the pressure has reached 22MPa, check for any leaks in the outlet hose. If there are no leaks, perform a test spray.



Using Your Airless Paint Sprayer

⚠ **WARNING!** Risk of injection; to reduce the risk of injection, never hold your hand, body, fingers or hand in a rag in front of the spray tip when cleaning or checking for a cleared tip. Always point the gun toward the ground or into a waste container when checking to see if the tip is cleared or when using a self-cleaning tip.

⚠ **WARNING!** Always follow the "Pressure Relief Procedure" in this manual.

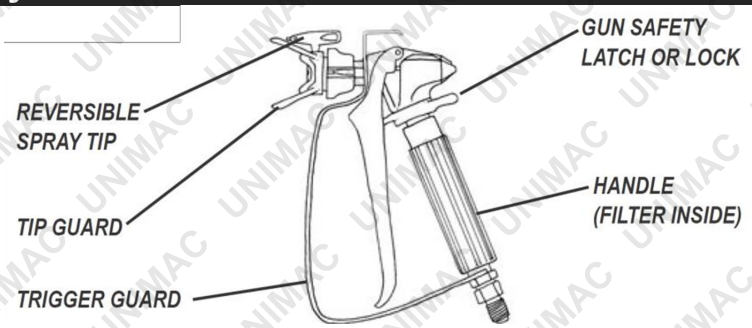
⚠ **WARNING!** When you spray into the paint bucket, always use the lowest spray pressure. If the container is metal, maintain a firm metal to metal contact between the spray gun and container.

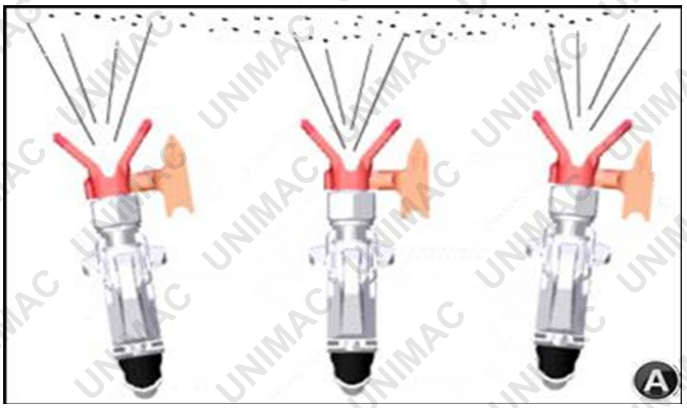
⚠ **Note!** During your spraying if you need to stop for several minutes, loosen the pressure valve and revolve prime valve in counter-clockwise, then switch the motor off.

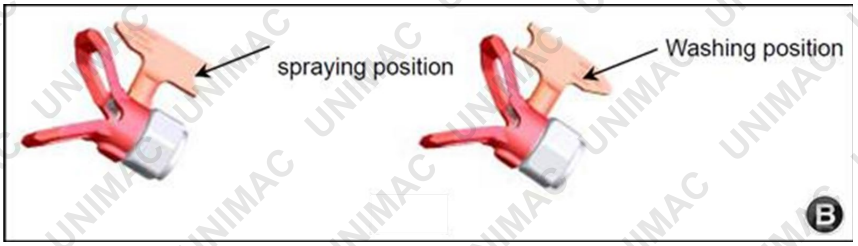
⚠ **Avoid Spray Tip Blockages!** There is an easy way to keep the outside of the tip clean from material build up:

- Every time you stop spraying, for even a minute, lock the gun and submerge it into a small bucket of thinner suitable for the material sprayed.
- Thinner will dissolve the build-up of paint on the outside of tip, tip guard and gun much more effectively if the paint doesn't have time to dry out completely.
- If the spray tip gets blocked, rotate it 180 degrees and back again a few times, then move back into position to continue spraying

Using the Spray Gun







1. During paint spraying, hold the gun upright to the surface of paint-object and keep a constant spraying distance of 350 to 400mm (A).
2. Start moving the spray gun before pulling the spray trigger and maintain gun movement during spraying. At the end of the spray stroke, release the trigger and stop movement. Adjust the moving speed according to paint thickness, spray pressure and the distance between spray gun and painting surface.
3. In order to the best coverage and surface finish, spray horizontally and vertically. If secondary coats are required, follow the directions provided by the paint manufacturer.

Adjusting Spray Pressure

⚠ **NOTE!** Operating the sprayer at higher pressure than needed, wastes material, causes early tip wear and shortens sprayer life.

1. Rotate the pressure control valve right (clockwise) to increase pressure, or left (anti-clockwise) to decrease pressure.
2. Always use the lowest pressure necessary to completely atomize the material.
3. If more coverage is needed, use a larger tip rather than increasing the pressure.
4. Check the spray pattern. The tip size and angle determines the pattern width and flow rate.

Pressure Relief Procedure

⚠ **IMPORTANT!** To avoid possible serious body injury, always follow this procedure whenever the sprayer is shut off, when checking it, when installing, changing or cleaning tips, whenever you stop spraying, or when you are instructed to relieve the pressure.

1. Engage the gun safety latch (if equipped). Refer to the separate instruction manual provided with your spray gun for information on safety features and how to operate the safety latch.
2. Switch the unit off.
3. Disengage the gun safety latch and trigger the gun to relieve residual fluid pressure.
4. Rotate the spray/prime control valve fully left (anti-clockwise) – this is the "priming" position, to relieve any residual fluid pressure.

If the spray tip or hose is clogged, follow step 1 through 4 above. Expect some spray material to be ejected from the spray gun while the pressure is released at step 4.

If you suspect that pressure hasn't been relieved due to a damaged valve or other reason, engage the gun safety latch and take the unit to an authorized service centre.

Switching the Machine OFF

⚠ **IMPORTANT!** Whenever you stop spraying, even for a short break, follow the “pressure relief procedure” in this manual.

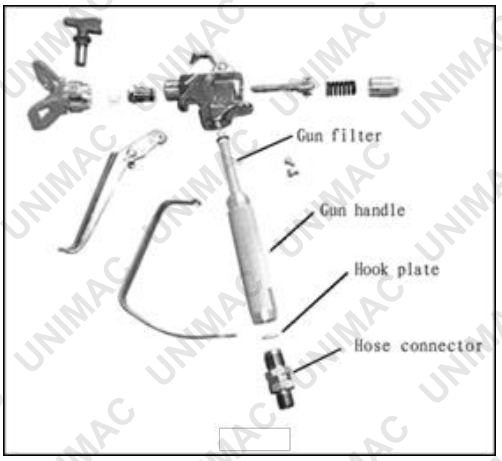
⚠ **IMPORTANT!** To stop the unit in an emergency, turn the motor off. Then relieve the fluid pressure in the pump and hose as instructed in the “pressure relief procedure” in this manual.

1. After spraying, turn the pressure valve in a counter-clockwise direction to allow pressure to escape
2. Rotate the spray/prime valve left (anti-clockwise), then switch the unit OFF after the pressure gauge shows “0” pressure.
3. Clean the spray gun and tip.

Maintenance

⚠ **NOTE: ALWAYS clean the machine after spraying to avoid any residual spray material in the machine, spray gun and spray tip from hardening and causing blockages, or otherwise affecting performance of the machine. • Always clean the machine using the correct type of solvent or thinner for the material that has been sprayed.**

- Check and clean spray gun filter regularly – remove the hose connector and hook plate from the spray gun, then screw out the gun handle. Remove the gun filter and clean it, then replace in reverse order. Replace the filter if it is damaged.
- Check and clean the intake tube filter regularly – remove the filter from the end of the intake tube and clean it in appropriate thinner or solvent.
- Check if parts are loose and if sealed parts have any leakage.



Cleaning the Airless Sprayer

⚠ **WARNING!** To reduce the risk of static sparking, which can cause fire or explosion, always hold a metal part of the gun firmly against the metal pail when flushing. This also reduces splashing.

1. Remove the spray tip.
2. Pour enough clean, compatible solvent into a large, empty metal container to fill the pump and hoses.
3. Place the suction tube into the container.
4. Rotate the pressure control valve to a low pressure setting.
5. Rotate the spray/prime valve fully left (anti-clockwise) – this is the "priming" position. This will allow an easy start.
6. Turn the motor ON/OFF switch to ON.
7. Point the gun into the metal pail and hold a metal part of the gun firmly against the container.
8. Squeeze the trigger. At the same time, slowly turn the pressure control knob clockwise just enough to move liquid at the lowest possible pressure.
9. Allow the pump to operate until clean solvent comes from the gun.
10. Release the trigger.
11. If you are going to start spraying, place the pump or suction tube into the supply container. Trigger the gun into another empty, metal container, holding a metal part of the gun firmly against the metal container, forcing the solvent from the pump and hose. When paint starts coming from gun, rotate the pressure control valve to minimum pressure, then rotate the spray/prime valve left to the "priming" position and engage the gun safety latch.
12. If you are going to store the sprayer, remove the suction tube or pump from the solvent container and force the solvent from the pump and hose.
13. Whenever you shut off the sprayer follow the section Adjusting Spray Pressure.

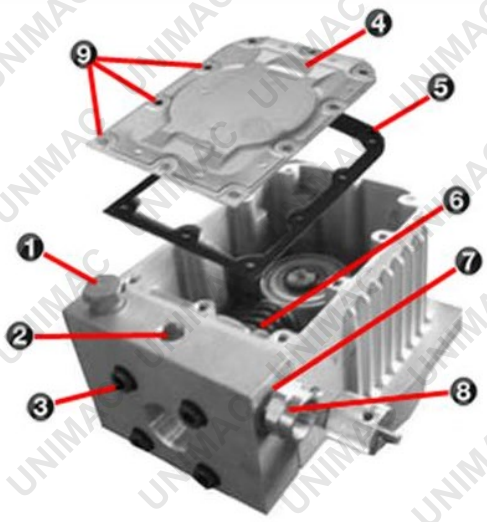
Changing Pump Oil

⚠ **WARNING!** Using the wrong oil can damage the pump and void warranty.

⚠ **Acceptable Oil Grade:** 80W-90, SAE 90 or 85W-90 only.

⚠ **WARNING!** Do not overfill or tilt while filling.

⚠ **NOTE!** Your airless sprayer pump **IS** shipped with oil. The pump oil level should be checked after each 50 hours of use.



1. Outlet valve
2. Pressure Gauge mounting hole.
3. 4 x M8 Alan key bolts.
4. Cover plate
5. Rubber seal
6. Spring
7. Plastic spacer
8. Prime valve
9. 10 x M6 cover plate bolts

1. Ensure the machine is on a flat and level surface.
2. Remove the 10 M6 bolts securing the pump cover.
3. Fill with oil until the surface of the oil is 20mm from the top most lip of the reservoir.
4. Replace the cover and 10 M6 bolts.
5. Clean up any excess oil from the machine.

Checking and Replacing the Diaphragm

Video Tutorial:
Priming Problems & Replacing the Diaphragm

⚠ **Note!** It may be necessary to bleed the sprayer after changing the diaphragm, see "pressure relief procedure".

Please follow these steps;

1. Remove the 4 bolts (**A**) on the manifold.
2. Remove the manifold and set aside.
3. Remove the diaphragm (**B**) by lifting an edge and working it out, away from the housing.
4. Insert the new diaphragm and repeat the above in reverse order.

Transporting/Storage

1. Clean the machine and spray system.
2. Switch the machine ON for a few seconds and press the spray gun trigger until any fluid remaining in the machine is ejected, then switch OFF immediately.
3. Disconnect the high pressure hose and spray gun connections.
4. Store the machine and accessories in a place that does not reach freezing temperatures or near regular heat sources as it may dry the pump seals. Do not allow high pressure hoses or tubes to become kinked or pinched when storing.

Troubleshooting

This guide should be followed in case of failure of the appliance to operate correctly. If symptoms persist contact our Customer Service Team on (02) 8667 7874.

⚠ **WARNING! DO NOT ATTEMPT TO REPAIR OR MODIFY THE APPLIANCE**

Problem	Cause	Correction
Little or no material flow	Nozzle clogged	Clean the nozzle
	Suction tube clogged	Clean the tube
	Pressure too low (-)	Increase pressure
	Suction tube loose	Push into place
	Air filter clogged	Clean or replace
Material leaking	Nozzle loose	Tighten
	Nozzle worn	Replace
	Nozzle seal worn	Replace
	Material build-up on air cap and nozzle	Clean
Atomization is too coarse	Viscosity of material too high	Thin the paint
	Material volume too large	Decrease pressure
	Nozzle clogged	Clean the nozzle
	Air filter clogged	Clean or replace
Pattern runs or sags	Applying too much material	Adjust pressure control dial or increase movement of spray gun
Too much overspray	Gun too far from spray object	Reduce distance
	Too much material applied	Decrease pressure
Pattern is very light and splotchy	Moving the spray gun too fast	Increase pressure or decrease movement of spray gun
	Motor brushes binding in brush holders.	Clean brush holders. Remove carbon dust by using compressed air to blow out brush dust
Spluttering paint	Air bubbles in system	Bleed the unit
Inlet hose not sucking up water when cleaning the unit	Lack of pressure	Bleed the unit, then re-prime

Specifications

Input Voltage: 220-240V / 50Hz
Maximum Pressure: 275 Bar / 4000PSI
Motor: 3.5HP / 2600W
Delivery: 2.1 to 3.8 l/minute dependent on paint viscosity
Coverage: Approximately 7 to 8m^2 per litre.
Hose Len

Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged / missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections / servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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