

POWER MOTION

MAKE PRECISION UNSTOPPABLE



POWER MOTION 945G

AIRLESS SPRAYPACK

OPERATING MANUAL

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1. SAFETY INFORMATION

Please read the following important information carefully.

The following symbols indicate specific types of safety hazards.



Indicates a potential hazard that may cause serious injury to the operator or loss of life.



Indicates a potential hazard that may cause minor injury to the operator or to the equipment.



Indicates important information.



WARNING

This unit is capable of extremely high spraying pressures that can cause serious and/or minor injury by injection and extensive damage to property.



IMPORTANT

All replacement parts and accessories should **ONLY** be purchased from an authorised distributor of POWERMOTION equipment. Servicing should **ONLY** be carried out an authorised distributor of POWERMOTION equipment. If these conditions are not met, the operator assumes all liability for injury and property damage arising from the use of this unit.

1.1 GENERAL SAFETY PRECAUTIONS

✗ NEVER

- use the spray gun without the safety guard in place
- operate faulty units or use faulty accessories
- attempt to repair a damaged hose
- leave this equipment unattended
- move the unit when it is running
- spray outside on windy days

✓ ALWAYS

- ensure that this unit is properly earthed
- ensure that the power cord, air hose and spray hoses are optimally routed to minimise slip, trip and fall hazards
- immediately and thoroughly clean up all material and solvent spills to prevent slip hazards
- follow the material manufacturer's instructions for safe handling of coating materials
- unplug the cord from the outlet before cleaning, maintaining or repairing this unit
- keep the power cord plug in sight during use to prevent accidental shutdowns and startups
- wear ear protection to protect against possible hearing loss from the noise produced by this unit, which can exceed 85 dB(A)
- keep this unit out of reach of children, unqualified adults and animals
- comply with local codes regarding ventilation, fire prevention, and operation

1.2 SPECIFIC SAFETY HAZARDS AND PRECAUTIONS

SAFETY PRECAUTIONS TO PREVENT INJECTION INJURY



WARNING

Serious risk of injection injury. This equipment produces a high-pressure stream that can pierce the skin and subcutaneous tissues, resulting in severe injury and even possible amputation.



IMPORTANT

The maximum operating range of the unit is 250 bar (3625 PSI) fluid pressure.

✗ NEVER

- put your fingers, hands or any other parts of your body into the spray jet
- point the spray gun at yourself or anyone else (including animals)
- allow the fluid stream to come into contact with any part of your body
- allow any leak in the fluid hose to come into contact with any part of your body
- put your hand in front of the gun

NOTE: Gloves do not provide full protection against injection injury.

- use a spray gun without both a working trigger lock and trigger guard in place

✓ ALWAYS

- ensure that the gun trigger is locked, the fluid pump is shut off, and all pressure is released before servicing, cleaning the nozzle holder, changing spray tip, or leaving the unit unattended

NOTE: Turning off the engine will not release the pressure. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure.

- ensure that the nozzle holder remains in place during spraying
- remove the spray tip before flushing or cleaning the system
- carefully check the paint hose for leaks before each use, as even small leaks can cause injection injury
- ensure that all accessories, including but not limited to spray tips, guns, extensions and hose, are rated at or above the maximum operating pressure range of the sprayer



IMPORTANT MEDICAL INFORMATION

Injection injury is a traumatic injury that requires immediate medical attention. Any laceration of the skin, no matter how minor it seems, should not be treated as a simple cut. Fully inform the medical team about the coatings or solvents involved, as some coatings are toxic when injected directly into the bloodstream. For serious injuries, a plastic surgeon or reconstructive hand surgeon should be consulted.

SAFETY PRECAUTIONS TO PREVENT EXPLOSIONS AND FIRE



WARNING

This equipment produces a high-pressure stream that can pierce the skin and subcutaneous tissues, resulting in severe injury and even possible amputation.

NEVER

- use plastic drop cloths or enclose the spray area with plastic sheets, as plastic can cause static sparks
- smoke in the spray area
- use any materials with a flashpoint lower than 21 °C (70 °F)

NOTE: Flashpoint is the temperature at which a fluid can produce sufficient vapours to ignite.



ALWAYS

- ensure that the spray area is well-ventilated to prevent the build-up of flammable vapours
- avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords and/or working light switches
- flush the unit into a separate metal container, at the lowest possible pump pressure and with the spray tip removed
- hold the gun firmly against the side of the container to prevent static sparks
- have a fire extinguisher nearby
- place the sprayer at a minimum of 6.1 metres (20 feet) from the surface to be sprayed, extending the hose if necessary. Since flammable vapours are often heavier than air, the floor area must be well ventilated. The pump contains arcing parts that emit sparks, which can ignite vapours.
- ensure that the equipment and objects in and around the spray area are properly grounded to prevent static sparks
- ensure that you are using a conductive or earthed high pressure hose
- ensure that the gun is earthed through the hose connection
- ensure that the power cord is connected to a grounded circuit
- ensure that the unit is connected to an earthed object such as a water pipe, steel beam, or other electrically earthed surface, via the green earthing wire
- strictly follow the material and solvent manufacturer's warnings and instructions, and read the coating material's MSDS (Material Safety Data Sheet) and technical information before use

SAFETY PRECAUTIONS TO PREVENT EXPLOSIONS DUE TO INCOMPATIBLE MATERIALS



WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.



NEVER

- use materials that contain bleach or chlorine
- use halogenated hydrocarbon solvents such as methylene chloride and 1,1,1-trichloroethane

NOTE: These substances are not compatible with aluminium and may cause an explosion. If you are in any doubt over a material's compatibility with aluminium, check with your coating supplier.

SAFETY PRECAUTIONS TO PREVENT HARM FROM TOXIC VAPOURS



WARNING

Vapours from paints, solvents, insecticides, and other materials can be harmful in the event of inhalation or contact with any part of the body. Symptoms include severe nausea, fainting and poisoning.

ALWAYS

- use a respirator or mask
- wear protective eyewear
- wear protective clothing

SAFETY PRECAUTIONS TO PREVENT HARM FROM MOVING PARTS



WARNING

Moving parts can pinch, cut or amputate fingers and other body parts. Furthermore, equipment can start without warning.

✓ ALWAYS

- keep clear of moving parts
- follow the Pressure Relief Procedure and disconnect all power sources before checking, moving or servicing the equipment

✗ NEVER

- operate equipment with protective guards or covers removed

1.3 EARTHING INSTRUCTIONS

✗ NEVER

- operate this unit unless you are sure that it has been properly earthed
- modify the earthing plug
- use a 3-to-2 adapter with this equipment

✓ ALWAYS

- ensure that the earthing plug is plugged into an outlet that has been properly installed and earthed in accordance with local codes
- seek the advice of a qualified electrician if you need a new outlet installed to fit the earthing plug, do not fully understand these earthing instructions, or are unsure as to whether this unit is properly earthed
- if required, use only a 3-wire extension cord with a grounding plug and a grounding receptacle that accepts the plug on this equipment, and a minimum AWG (2.5 mm²) to carry the current that this equipment draws

Conductor Size		Length
AWG (American Wire Gauge)	Metric	Maximum
1 ²	2.5 mm ²	15 m (50 ft)



WARNING

Incorrect installation of the earthing plug can result in electric shock. If you need to repair or replace the cord or plug, do not connect the green earthing wire to either blade terminal.



IMPORTANT

The wire with insulation, which has a green outer surface with or without yellow stripes, is the earthing wire. It must be connected to the earthing pin.

Use of an undersized cord causes a drop in line voltage, loss of power and overheating.

A list of the materials used in the construction of this unit is available upon request for the purpose of determining compatibility with coating materials.

2. COATINGS

Please read the following important information carefully.

2.1 SUITABLE COATINGS

This unit is suitable for the application of:

- dilutable lacquers and paints
- coatings containing solvents
- 2-component coating materials
- dispersions
- latex paints

2.2 PREPARATION OF COATING MATERIALS

Always filter and stir the coating material before application. To prevent downtime, make sure that no air bubbles are introduced, especially when stirring the coating material with motor-driven agitators.

2.3 VISCOSITY

This unit is able to process highly viscous coating materials of up to around 20,000 mPa-s.

Highly viscous coating materials can be diluted according to the manufacturer's instructions.

2.4 2-COMPONENT COATING MATERIALS

When preparing two-component coating materials for spraying, follow the manufacturer's instructions and do not skimp on the mixing/processing time. While the components are processing, thoroughly rinse and clean the unit with suitable cleaning agents.

2.5 COATINGS CONTAINING ABRASIVE MATERIALS

Coatings that contain sharp-edged aggregates and additional materials cause intense wear and tear on this unit's parts, including its valves, high-pressure hose, spray gun and spray tip.

Use of abrasive coatings may shorten the working life of this unit.

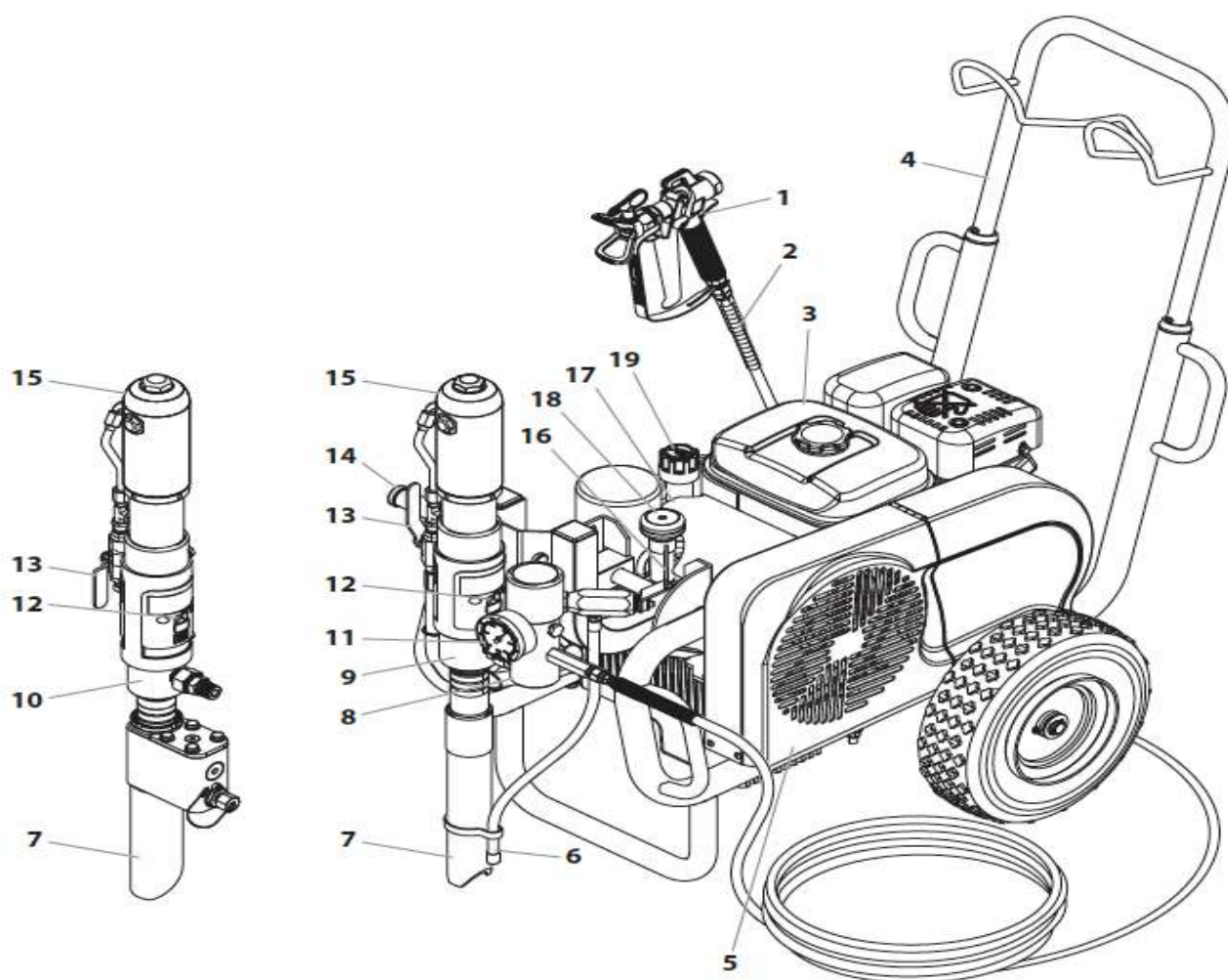
3. EQUIPMENT

Please read the following important information carefully.

3.1 TECHNICAL DATA

Dimensions (L x W x H)	1185 x 955 x 655 mm
Weight	76 kg
Motor output	4 kW
Flow rate	8 L/min
Max. nozzle size	0.045"
Max. operating pressure	250 bar
Max. temperature of coating material	43 °C
Max. viscosity	52,000 mPa-s
Max. sound pressure level	92 dB
High pressure hose	DH 10 mm, 15 m

3.2 MAIN COMPONENTS



- 1 Spray gun
- 1 High-pressure hose
- 2 Gasoline engine
- 3 Extractable handle
- 4 V-belt under the belt cover
- 5 Return hose
- 6 Suction tube
- 7 High-pressure filter
- 8 Material feed pump
- 9 Material feed pump
- 10 Pressure gauge

- 12 Oil cup for separating
- 13 Ball valve:
Horizontal position – hydraulic motor switched off
Vertical position – hydraulic motor switched on
- 12 Handle for swiveling the material feed pump
- 13 Hydraulic motor
- 14 Relief valve handle:
- Turn left for circulation
- Turn right for spray p
- 17 Hydraulic oil pump
- 18 Pressure control knob
- 19 Oil measuring stick

4. OPERATING INSTRUCTIONS

Please read the following important information carefully.

4.1 SETUP



WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.

1. Connect appropriate high-pressure hose to sprayer. Tighten securely.



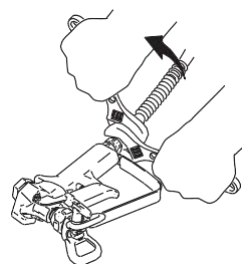
2. Install adapter and 15 m high pressure hose to one end of 2 m high pressure hose



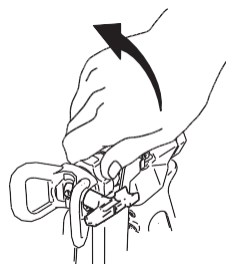
3. Install airless hose to the fluid inlet of the spray gun



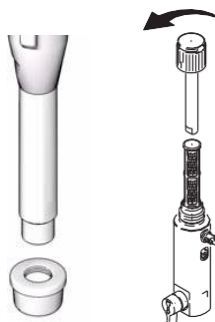
4. Tighten securely



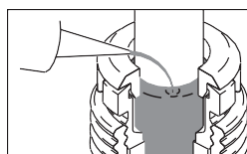
5. Remove nozzle holder



6. Remove inlet strainer and suction filter when spraying plaster materials



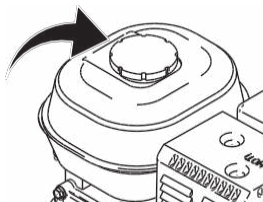
7. Fill throat packing nuts with separating oil to prevent premature packing wear. Do this each time you spray.



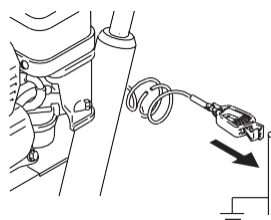
8. Check engine oil level



9. Fill fuel tank with petrol



10. Attach sprayer grounding clamp to earth ground



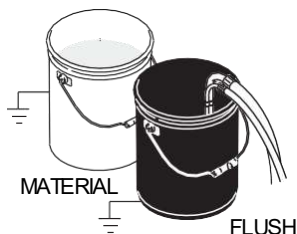
4.2 STARTUP – ENGINE CONTROL



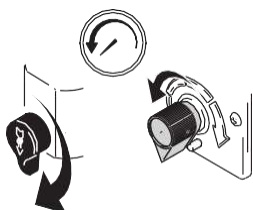
WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.

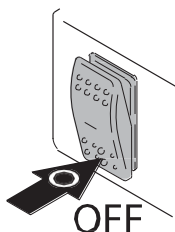
1. Place suction tube or suction rod paint container filled with flushing fluid



2. Turn relief valve down and pressure control knob to minimum



3. Turn power ON/OFF switch to "OFF" position

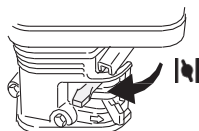


4. Start engine

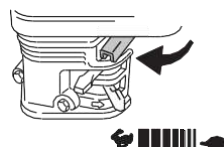
- A. Move engine control valve to "OPEN" position



- B. Move engine choke to "CLOSED" position



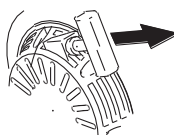
- C. Set engine throttle to "FAST" position



- D. Set engine switch to "ON" position



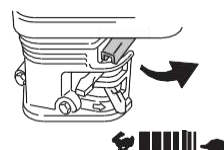
- E. Pull engine starter rope



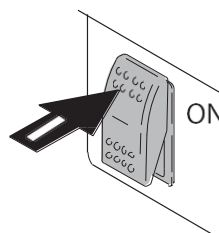
- F. Once engine starts, move choke to "OPEN" position



- G. Set engine throttle to desired setting



- H. Turn power ON/OFF switch to "ON" position



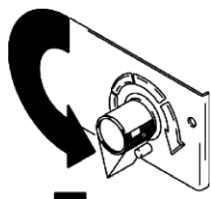
4.3 STARTUP – PRESSURE CONTROL



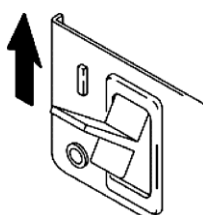
WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.

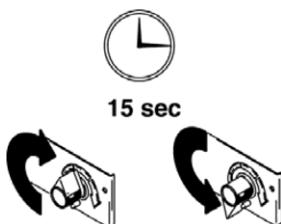
1. Turn pressure control knob to "minimum"



2. Turn power ON



3. Increase pressure to start motor and allow fluid to circulate through return hose for 15 seconds. Decrease pressure control knob to minimum.



4. Turn relief valve to "SPRAY" position

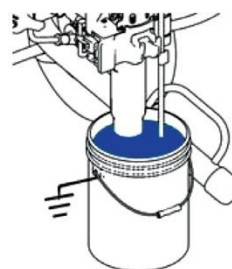


5. Trigger the spray gun, whilst increasing the pressure control knob, if necessary



6. Inspect for leaks. If leaks occur, perform Pressure Relief Procedure. Tighten fittings. Perform Startup steps 1 - 5. If no leaks, proceed to step 6.

7. Place suction tube into the container of material



8. Trigger gun again into flushing pail until paint appears. Move gun to paint pail and trigger for 20 seconds. Set gun safety ON. Assemble spray tip and nozzle holder.



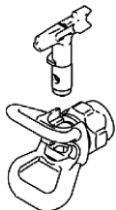
4.4 PRESSURE RELIEF PROCEDURE

Follow these steps carefully.

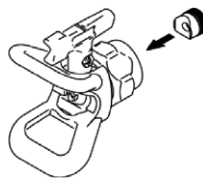
1. Immerse the suction tube and return hose in a container, filled with a suitable cleaning agent
2. Turn the pressure control knob counter-clockwise to minimum pressure
3. Turn the relief valve and set to "PRIME" position
4. Wait until the cleaning agent discharges from the return hose
5. Turn the relief valve and set to "SPRAY" position
6. Pull the trigger of the spray gun
7. Spray the cleaning agent from the unit into a container

4.5 INSTALLATION OF SPRAY TIP

1. Insert spray tip into nozzle holder (arrow points forward)



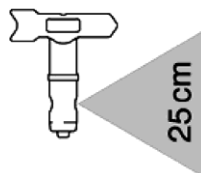
2. Insert nozzle seal (curved side in) into housing



3. Install assembled spray tip and nozzle holder in spray gun



4. Install appropriate spray tip for your material



4.6 CLEARING SPRAY TIP CLOGS



WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.

1. Release trigger, put safety ON. Rotate spray tip. Take safety OFF. Trigger gun to clear clog. Never point gun at your hand or into a rag!



2. Put safety ON. Rotate spray tip to original position. Take safety OFF and continue spraying.



4.7 BEFORE SPRAYING THE COATING MATERIAL

Follow these steps carefully.

1. Turn the pressure control knob counter-clockwise to minimum pressure
2. Turn the relief valve and set to "PRIME" position
3. Switch the unit ON
4. Wait until the coating material discharges from the return hose
5. Turn the relief valve and set to "SPRAY" position
6. Trigger the spray gun and spray into a container until the coating material exits the spray gun continuously
7. Increase the pressure by slowly turning the pressure control knob clockwise
8. Check the spray pattern and increase the pressure until the desired atomisation is attained
9. The unit is ready to spray

4.8 METHOD OF SPRAYING



WARNING

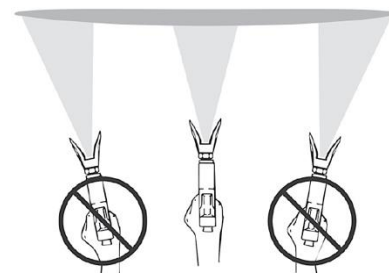
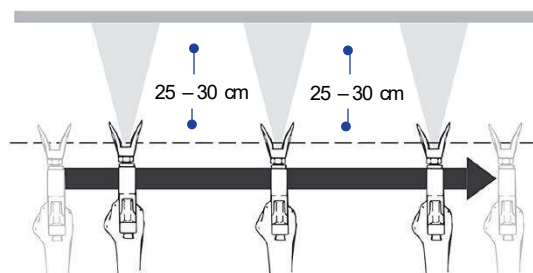
Never trigger the gun unless the spray tip is completely turned to either the spray or the unclog position. Always engage the gun trigger lock before removing, replacing or cleaning the spray tip.

Follow these steps carefully.

1. Ensure that the nozzle holder is in place
2. Trigger the gun AFTER starting the stroke

3. To ensure even application:

- keep your arm moving at a constant speed
- keep the spray gun perpendicular to the surface
- keep the spray gun at a constant distance of 25 to 30 cm from the surface
- overlap each stroke by about 30%



4. Release the gun BEFORE ending the stroke

NOTE: Gloves do not provide full protection against injection injury.



IMPORTANT

If very sharp edges or streaks appear on the coated surface, increase the operating pressure or dilute the coating material.

4.9 HANDLING THE HIGH-PRESSURE HOSE

Avoid sharp bending or kinking of the high-pressure hose. The smallest bending radius amounts to about 20 cm.

Do not drive over the high-pressure hose, and avoid contact with sharp objects and edges.



WARNING

Defective high-pressure hoses can leak and cause serious injection injury. Replace defective high-pressure hoses immediately. Never attempt to repair a defective high-pressure hose.

4.10 IN CASE OF INTERRUPTED OPERATION

Follow these steps carefully.

1. Turn the relief valve and set to "PRIME" position
2. Switch the unit OFF
3. Turn the pressure control knob counter-clockwise to minimum pressure
4. Pull the trigger of the spray gun in order to release the pressure from the high-pressure hose and spray gun
5. Secure the spray gun
6. Leave the suction tube (or the suction hose and return hose) immersed in the coating material, or in a cleaning agent



IMPORTANT

If a fast-drying or two-component coating material is used, ensure that the unit is rinsed with a suitable cleaning agent within the processing time.

5. CLEANING AND MAINTENANCE

Please read the following important information carefully.

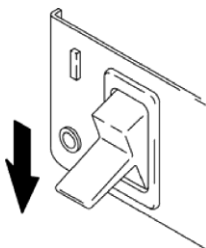
5.1 CLEANING AND SHUTTING DOWN



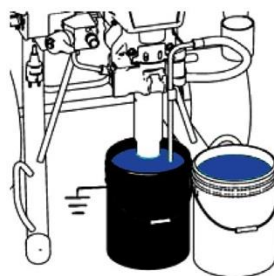
WARNING

Serious risk of explosions due to incompatible materials. Accidental explosions due to incompatible materials can cause serious injury and/or extensive damage to property.

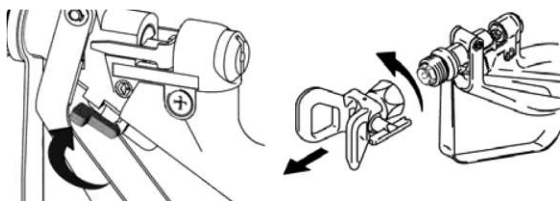
A. Turn power OFF. Wait 30 seconds for power to dissipate.



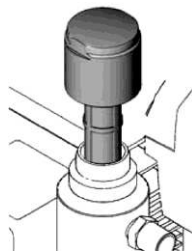
1. Do Steps A - D first. Remove suction tube from paint and place in flushing fluid.



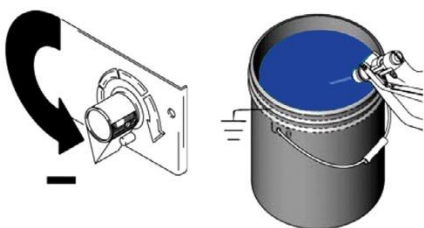
B. Lock gun trigger safety. Remove nozzle holder and spray tip.



2. Unscrew the filter cap, and clean the strainer filter

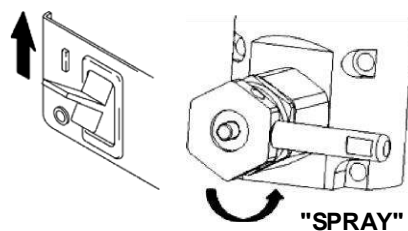


C. Turn the pressure control knob to "minimum", and trigger the gun to release pressure

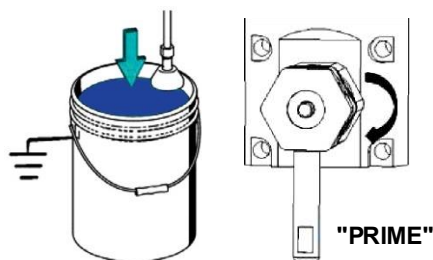


3. Switch power ON, and turn the relief valve to "SPRAY" position

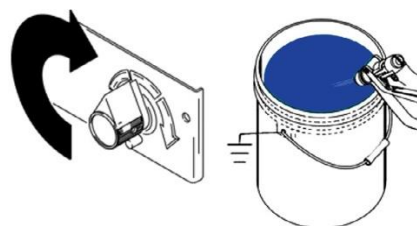
NOTE: Use water for water-based material and appropriate solvent for oil-based material.



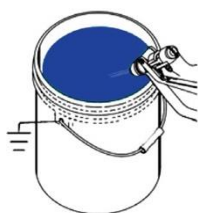
D. Put the return hose in a container and turn the relief valve to "PRIME" position



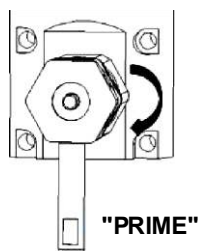
4. Increase pressure slowly. Hold gun against the paint container. Unlock the trigger, and flush the gun until the flushing fluid appears.



5. Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and put trigger safety ON.



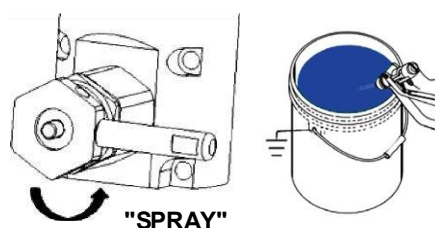
6. Turn the relief valve to "PRIME" position and allow the flushing fluid to circulate and clean the return hose



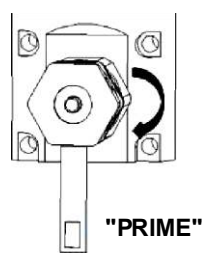
7. Remove the suction tube and allow the unit to run and drain the flushing fluid



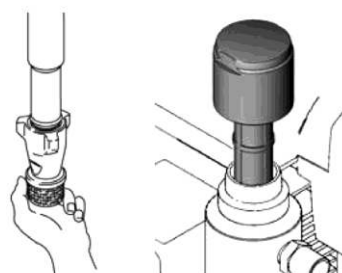
8. Turn the relief valve to "SPRAY" position. Trigger the gun into the flushing pail. Switch OFF power.



9. Turn the relief valve to "PRIME" position, and ensure the pressure control knob is set to "minimum".



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



11. If flushing with water, flush again with mineral spirits, or a suitable product, to leave a protective coating to prevent freezing or corrosion



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



IMPORTANT

The container must be earthed in case of coating materials that contain solvents.

5.2 CLEANING THE AIRLESS SPRAY GUN

Follow these steps carefully.

1. Rinse the airless spray gun with a sufficient amount of a suitable cleaning agent
2. Thoroughly clean the spray tip with a sufficient amount of a suitable cleaning agent until all unused coating material has been removed
3. Thoroughly clean the outside of the airless spray gun

5.3 DISASSEMBLY OF THE GUN FILTER

Follow these steps carefully.

1. Pull the protective guard (Figure 1.1) forward with moderate force
2. Unscrew the grip (1.2) from the gun housing and remove the gun filter (1.3)



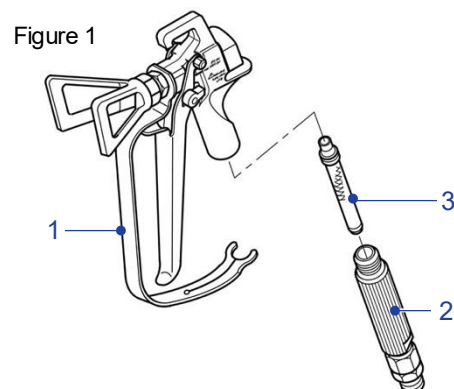
IMPORTANT

Replace the gun filter if it is clogged or faulty.

5.4 ASSEMBLY OF THE GUN FILTER

Follow these steps carefully.

1. Place the gun filter (Figure 1.3) with the long cone pointing up into the gun housing
2. Screw the grip (1.2) into the gun housing and tighten
3. Slot in the protective guard (1.1)



6. MALFUNCTIONS

Refer to the chart below for instructions on how to correct common malfunctions.

TYPE OF MALFUNCTION	POSSIBLE CAUSES	CORRECTIVE MEASURES
A. E⇒XX is displayed	1. Fault condition exists	1. Determine fault correction from table
B. Engine will not start	1. Engine switch is OFF 2. Engine is out of gasoline 3. Engine oil level is low 4. Spark plug is disconnected or damaged 5. Engine is cold 6. Fuel shutoff lever is OFF 7. Oil is seeping into combustion chamber	1. Turn engine switch ON 2. Refill gas tank 3. Replenish engine oil 4. Replace spark plug 5. Pull choke to manually start the engine 6. Move lever to ON position 7. Remove spark plug. Pull starter 3 to 4 times. Clean or replace spark plug. Start engine.
C. Tripping of DESC-Control system	1. Operating conditions out of the parameters	1. Turn pressure down. Contact Selleys Technical for assistance.

TYPE OF MALFUNCTION	POSSIBLE CAUSES	CORRECTIVE MEASURES
D. Displacement pump does not operate	1. Power switch is OFF 2. Pressure setting is low 3. Suction filter is dirty 4. Spray tip or gun filter is clogged 5. Displacement rod is stuck due to dried paint 6. Connecting rod is worn or damaged 7. Drive housing is worn or damaged	1. Turn Power switch ON 2. Turn pressure control knob clockwise to increase pressure 3. Clean or replace the suction filter 4. Clean or replace spray tip and gun filter 5. Clean the displacement rod. If problem continues, replace displacement rod. 6. Replace connecting rod 7. Replace drive housing
E. Pump output is low	1. Suction filter is clogged 2. Piston ball is not sitting properly 3. Piston packings are worn or damaged 4. O-ring in the pump is worn or damaged 5. Intake valve ball is not sitting properly 6. Intake valve ball is clogged with material 7. Engine speed is too low 8. Clutch is worn or damaged 9. Pressure setting is too low 10. Gun filter or spray tip is clogged or dirty 11. Decreased pressure in hose whilst spraying	1. Clean suction filter 2. Clean or replace the piston ball 3. Replace the packings 4. Replace O-ring 5. Clean the intake valve 6. Clean the intake valve 7. Increase throttle setting 8. Adjust or replace clutch 9. Increase pressure 10. Clean or replace the gun filter and spray tip 11. Use larger diameter hose and/or reduce overall length of hose NOTE: Using a hose longer than 100 ft or less than 1/4 inch in diameter will significantly reduce performance of sprayer. For optimal performance, use a 50 ft hose with a diameter of 3/8 inch.
F. Excessive paint leakage in packing nut	1. Packing nut is loose 2. Packings are worn or damaged 3. Displacement rod is worn or damaged	1. Remove and replace the packing nut spacer. Tighten packing nut securely. 2. Replace packings 3. Replace the displacement rod
G. Fluid is leaking from spray gun	1. Air in pump or hose 2. Spray tip is partially clogged 3. Fluid supply is low or empty	1. Check and tighten all fluid connections 2. Clean the spray tip 3. Refill fluid supply. Prime the pump and ensure fluid supply is running smoothly.
H. Pump is difficult to Prime	1. Air in pump or hose 2. Intake valve is leaking 3. Pump packings are worn 4. Viscosity of paint is thick 5. Engine speed is high	1. Check and tighten all fluid connections. Reduce engine speed and cycle pump as slowly as possible during priming. 2. Clean intake valve. Ensure ball seat is not nicked and that ball sits well. 3. Replace pump packings 4. Thin the paint according to the paint's technical data sheet 5. Decrease throttle setting before priming the pump
I. Clutch squeaks each time it is engaged	1. Clutch surfaces are not sitting properly	1. Apply lubricating oil, and allow clutch to run. Noise will dissipate after a day of run time.

POWER MOTION

MAKE PRECISION UNSTOPPABLE

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