

Mark V Premium, Mark V Max, Mark VII Max, Mark X Premium, and Mark X Max Electric Airless Sprayers

3A2243B

EN

For Portable Airless Spraying of Architectural Coatings and Paints.

For professional use only. Not approved for use in European explosive atmosphere locations.

3300 psi (227 bar, 22.7 MPa) Maximum Working Pressure



IMPORTANT SAFETY INSTRUCTIONS

Read all warnings and instructions in this manual and all related manuals. Save these instructions.

Related Manuals:



3A2244
3A2333



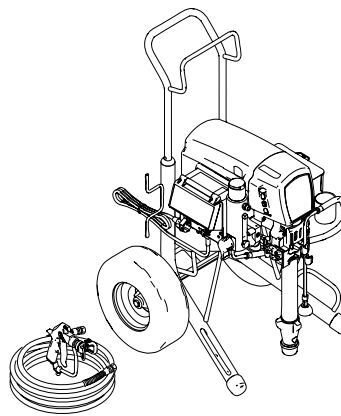
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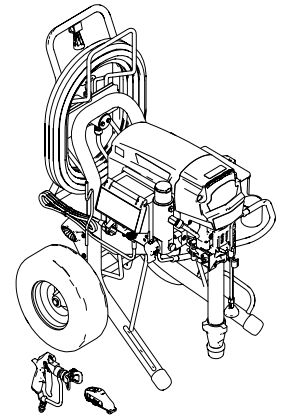
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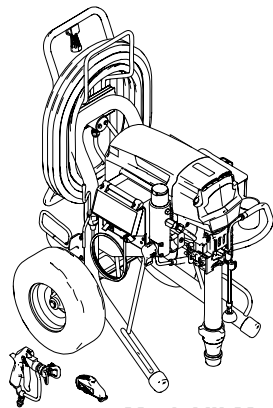
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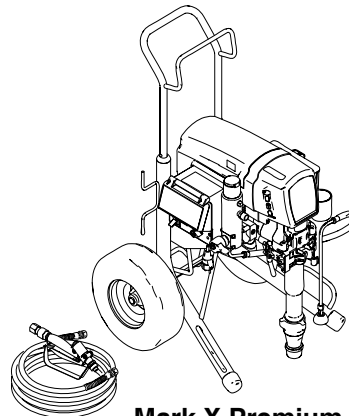
Mark V Premium



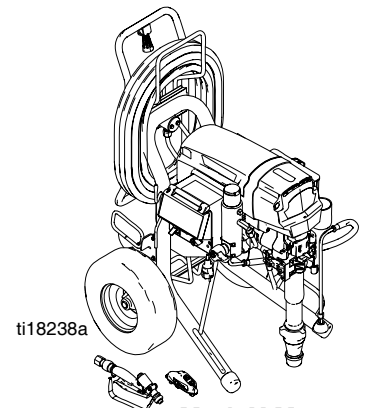
Mark V Max



Mark VII Max



Mark X Premium



Mark X Max

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Models:

Model	QuikReel	E-Control	Blue Tex- ture Gun	HD Inline Texture Gun	3/8in. x 50ft + 1/4in. x 3ft whip (9.5mm x 15m + 6.4mm x 0.9m whip)	3/8in. x 100ft + 1/4in. x 3ft whip (9.5mm x 30m + 6.4mm x 0.9m whip)	1/2in. x 50ft + 3/8in. x 12ft whip (12.7mm x 15m + 9.5mm x 3.7m whip)	1/2in. x 100ft + 3/8in. x 12ft whip (12.7mm x 30m + 9.5mm x 3.7m whip)
24L993 Mark V MAX - Europe	✓	✓	✓			✓		
24L994 Mark V MAX - MultiCord	✓	✓	✓			✓		
24L995 Mark V MAX - UK	✓	✓	✓			✓		
16Y996 Mark V Max - UK (20A)	✓		✓			✓		
24M001 Mark V Premium - Europe			✓		✓			
24M002 Mark V Premium - MultiCord			✓		✓			
24M003 Mark V Premium - UK			✓		✓			
24M004 Mark V Plus			✓		✓			
24L996 Mark VII MAX - Europe	✓	✓	✓					✓
24L997 Mark VII MAX - MultiCord	✓	✓	✓					✓
24M734 Mark VII Max - Special Edition	✓	✓	✓					✓
24L998 Mark X MAX - Europe	✓	✓		✓				✓
24L999 Mark X MAX - MultiCord	✓	✓		✓				✓
24M005 Mark X Premium - Europe				✓			✓	
24M006 Mark X Premium - MultiCord				✓			✓	

Warnings

The following warnings are for the setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risks. When these symbols appear in the body of this manual, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

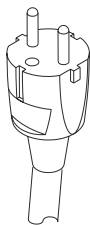
WARNING



GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

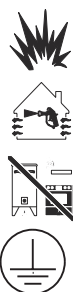
- Improper installation of the grounding plug is able to result in a risk of electric shock.
- When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal.
- The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.
- Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 230V circuit and has a grounding plug similar to the plug illustrated in the figure below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

Extension Cords:

- Use only a 3-wire extension cord that has a grounding plug and a receptacle that accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary, use 12 AWG (2.5 mm²) minimum to carry the current that the product draws.
- An undersized cord results in a drop in line voltage and loss of power and overheating.


WARNING
**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:

- Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use Graco conductive or grounded high-pressure airless paint sprayer hoses.
- Verify that all containers and collection systems are grounded to prevent static discharge.
- Connect to a grounded outlet and use grounded extensions cords. Do not use a 3-to-2 adapter.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area. Do not spray pump assembly.
- Do not smoke in the spray area.
- Do not operate light switches, engines, or similar spark producing products in the spray area.
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvents manufacturer's safety instructions.
- Fire extinguisher equipment shall be present and working.
- 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 vapors.

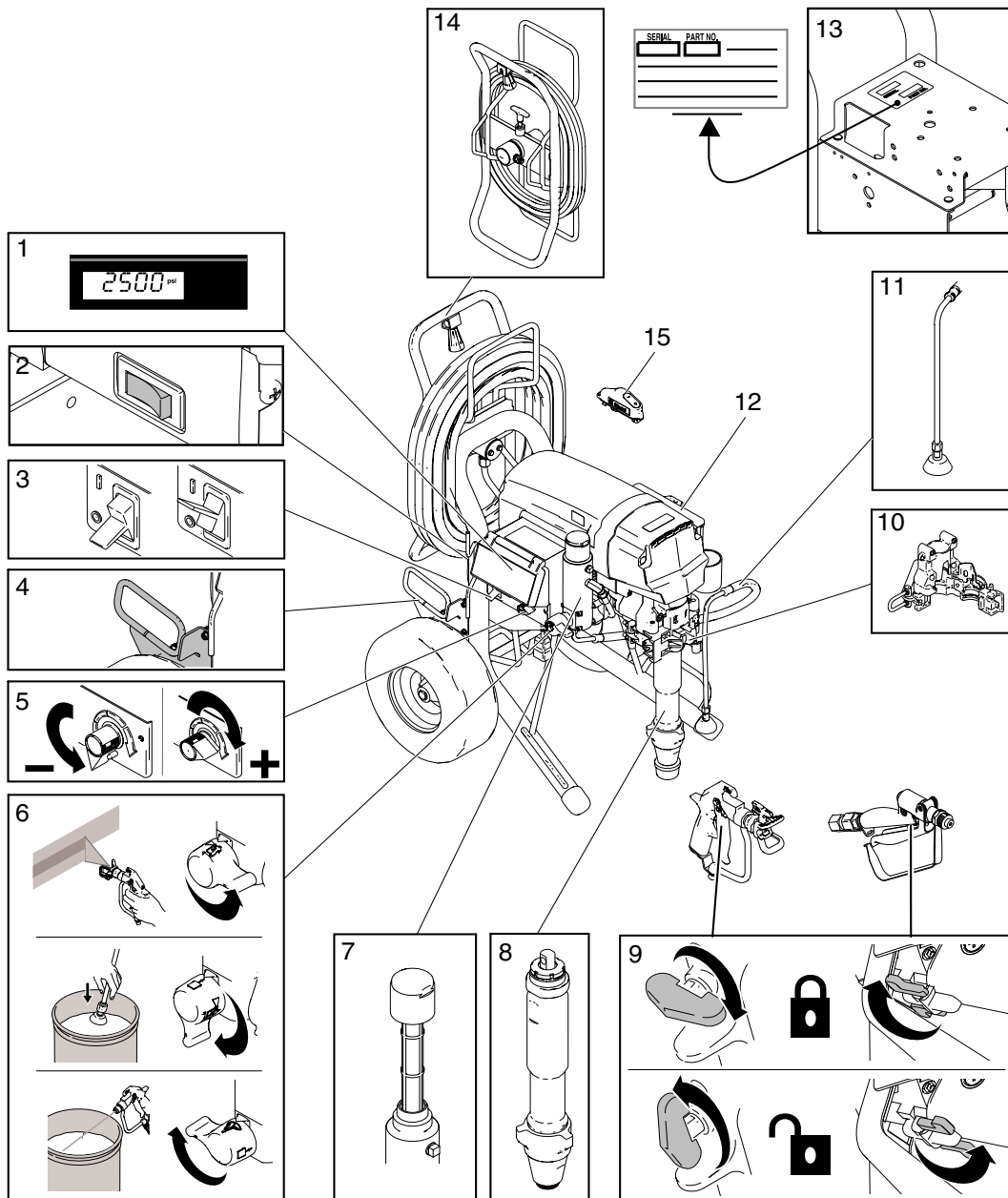
**SKIN INJECTION HAZARD**

High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, **get immediate surgical treatment.**

- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
- Use Graco nozzle tips.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the **Pressure Relief Procedure** for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
- Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and follow the **Pressure Relief Procedure** for turning off the unit.
- High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, **get immediate surgical treatment.**
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- This system is capable of producing 3300 psi (227 bar, 22.7 MPa). Use Graco replacement parts or accessories that are rated a minimum of 3300 psi (227 bar, 22.7 MPa).
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.

 WARNING	
 	<p>EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • Do not operate the unit when fatigued or under the influence of drugs or alcohol. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer. • Do not leave the work area while equipment is energized or under pressure. • Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use. • Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only. • Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. • Make sure all equipment is rated and approved for the environment in which you are using it. • Use equipment only for its intended purpose. Call your distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or over bend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	<p>ELECTRIC SHOCK HAZARD This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> • Turn off and disconnect power cord before servicing equipment. • Connect only to grounded electrical outlets. • Use only 3-wire extension cords. • Ensure ground prongs are intact on power and extension cords. • Do not expose to rain. Store indoors • Wait five minutes after disconnecting power cord before servicing large capacitor units.
	<p>PRESSURIZED ALUMINUM PARTS HAZARD Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.</p> <ul style="list-style-type: none"> • Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents. • Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.
 	<p>MOVING PARTS HAZARD Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> • Keep clear of moving parts. • Do not operate equipment with protective guards or covers removed. • Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.
	<p>PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear, and hearing protection. • Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.





Component Identification



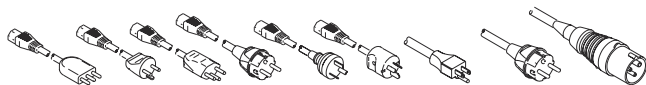
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1	Digital Display	9	Trigger Lock
2	10 / 16 Amp Switch (Mark VII and Mark V Only)	10	Bearing Housing / ProConnect™
3	ON/OFF Switch	11	Drain Tube
4	Hose Reel Guide	12	Tool Box
5	Pressure Control	13	Unit / Serial Tag
6	Spray / Prime / Fast Flush	14	Hose Reel
7	Filter	15	E-Control
8	Pump		

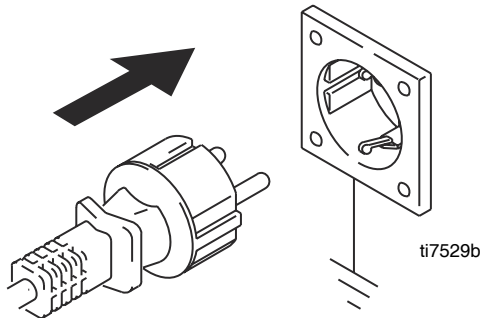
Grounding

				
<p>The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.</p>				

The sprayer cord includes a grounding wire with an appropriate grounding contact.



This sprayer requires circuit with a grounding receptacle. Never use an outlet that is not grounded.



Do not modify plug! Tampering with the plug will result in a voided warranty. Do not use sprayer if electrical cord has damaged ground prong.



If plug will not fit in outlet, have grounded outlet installed by a qualified electrician. Do not use an adapter.

NOTE: Smaller gauge or longer extension cords may reduce sprayer performance.

Power Requirements

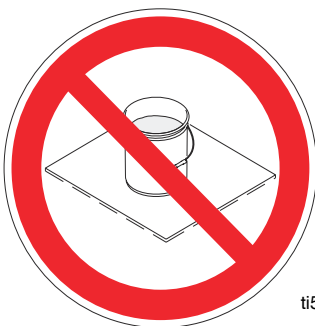
- 100-120V units require 100-120 VAC, 50/60 Hz, 15A, 1 phase
- 230V units require 220-240 VAC, 50/60 Hz, 10A-16A

Pails



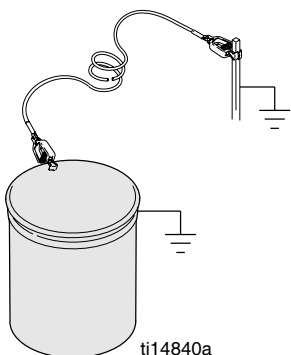
Solvent and oil/based fluids: follow local code. Use only conductive metal pails, placed on a grounded surface such as concrete.

Do not place pail on a nonconductive surface such as paper or cardboard which interrupts grounding continuity.



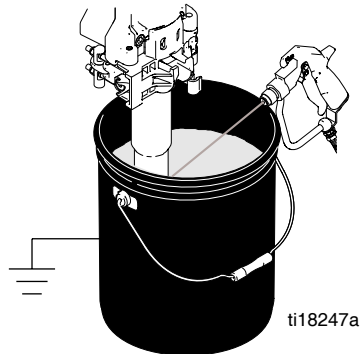
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Grounding a metal pail: connect a ground wire to the pail by clamping one end to pail and other end to a true earth ground.



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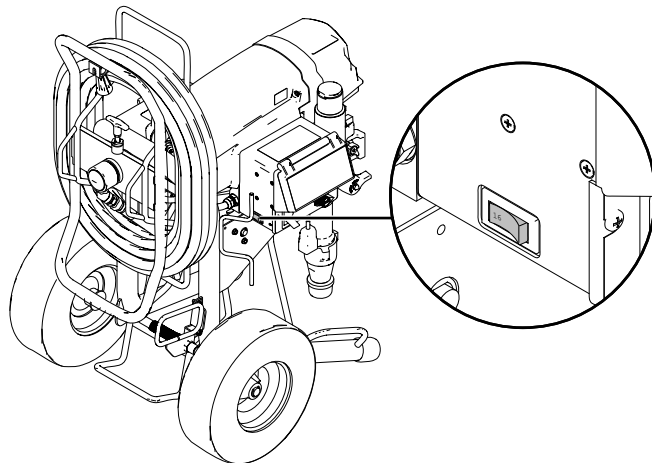
To maintain grounding continuity when flushing or relieving pressure: hold metal part of spray gun firmly to side of a grounded metal pail. Then trigger gun.



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10/16 Amp Switch

(Mark VII and Mark X)

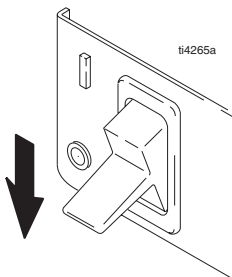


Select 10A or 16A setting based on your circuit rating.

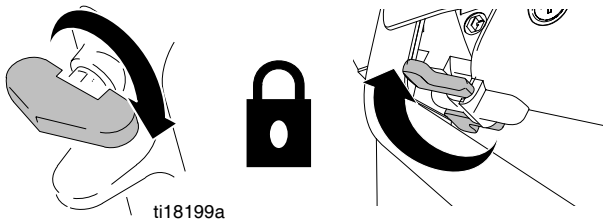
Pressure Relief Procedure

			
<p>This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.</p>			

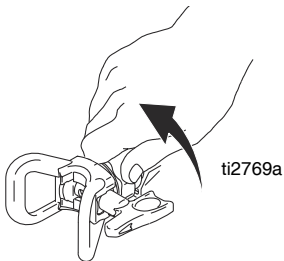
1. Turn power **OFF**. Wait 7 seconds for power to dissipate.



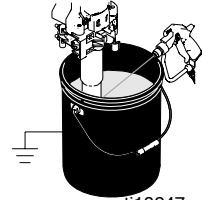
2. Lock gun trigger safety.



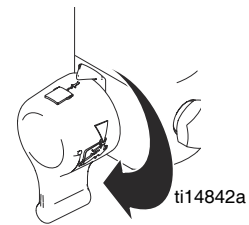
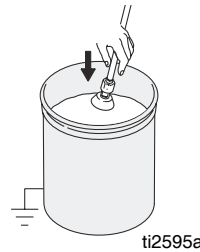
3. Remove guard and SwitchTip.



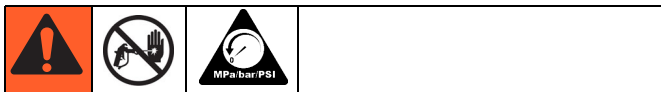
4. Turn pressure to lowest setting. Make sure you are not in **E-Control Mode**, page 14. Trigger gun to relieve pressure.



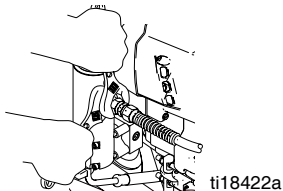
5. Put drain tube in pail. Turn prime valve down to DRAIN position.



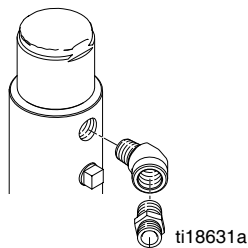
Setup



1. Connect Graco airless hose to sprayer. Tighten securely.

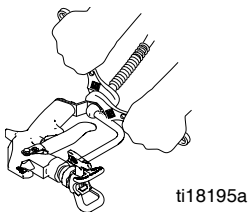


If using the optional hopper, remove the nipple fitting from the filter. Install 45° elbow (from parts box) into filter and install nipple fitting into elbow. Then connect the hose to the nipple.

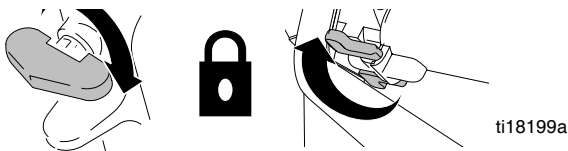


NOTE: Make sure nipple fitting is angled away from hopper so the hose can be easily installed.

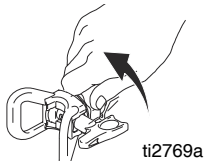
2. Connect other end of hose to gun and tighten securely.



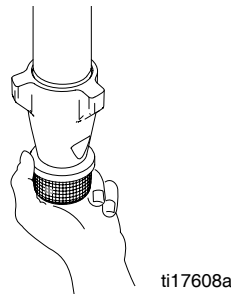
3. Engage gun trigger safety.



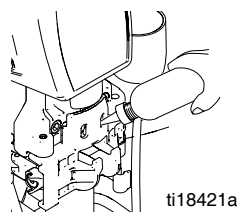
4. Remove tip guard.



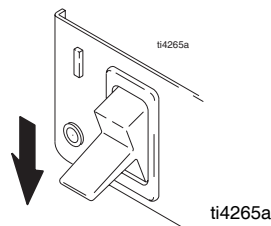
5. Check inlet strainer for clogs and debris.



6. Fill throat packing nut with Graco TSL to prevent premature packing wear. Do this each time you spray.



7. Turn power OFF.

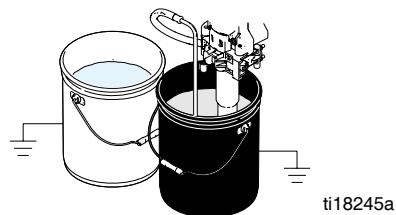


8. Plug power supply cord into a properly grounded electrical outlet.

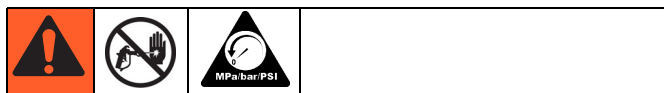
9. Turn prime valve down to DRAIN position.



10. Place pump in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to true earth ground. Perform steps 1 - 5 of **Startup** to flush out storage oil shipped in sprayer. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.



Startup



1. Turn pressure control to lowest pressure. Make sure you are not in E-Control mode.

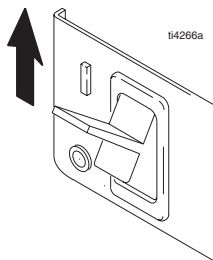


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2. Turn power ON.



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3. Increase pressure 1/2 turn to start motor and allow fluid to circulate through drain tube for 15 seconds; turn pressure down.



15sec.



1/2



4. Turn prime valve forward to SPRAY position. Disengage gun trigger safety.



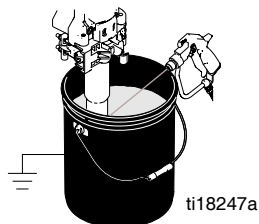
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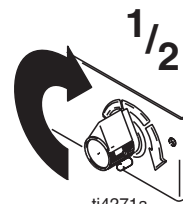
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5. Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure 1/2 turn. Flush 1 minute.



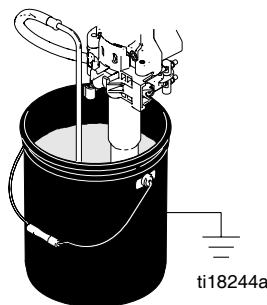
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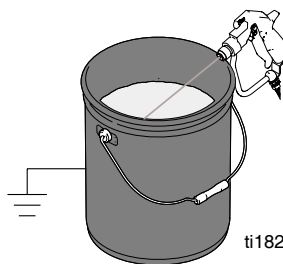
6. Inspect for leaks. Do not stop leaks with hand or a rag! If leaks occur, perform **Pressure Relief Procedure**, page 10. Tighten fittings. Perform **Startup**, steps 1 - 5. If no leaks, proceed to step 7.

7. Place pump in paint pail.



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8. Trigger gun again into flushing pail until paint appears. Move gun to paint pail and trigger for 20 seconds.

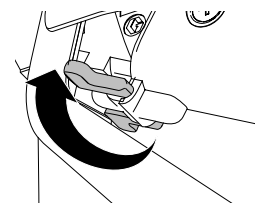


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9. Set gun safety ON. Assemble tip and guard, see instructions on next page.



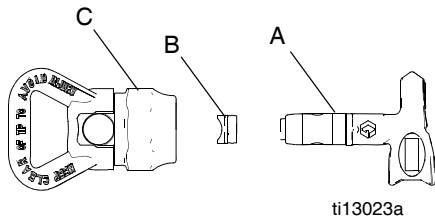
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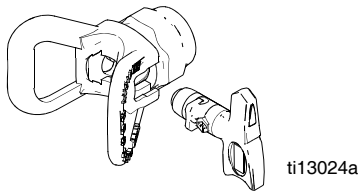
Switch Tip Installation



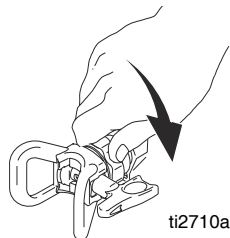
1. Use spray tip (A) to insert OneSeal™ (B) into guard (C).



2. Insert Switch Tip.

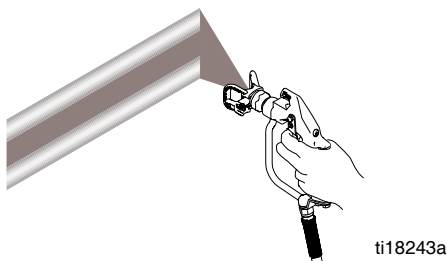


3. Screw assembly onto gun. Tighten.

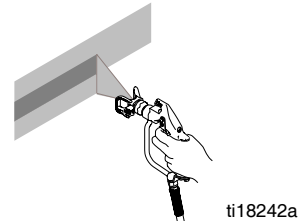


Spray

1. Spray test pattern. Increase pressure to eliminate heavy edges. Use smaller tip size if pressure adjustment can not eliminate heavy edges.

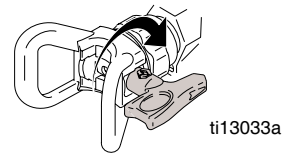


2. Hold gun perpendicular, 10-12 in. (25-30 cm) from surface. Spray back and forth. Overlap by 50%. Trigger gun after moving and release before stopping.

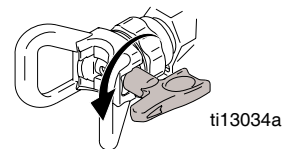


Clearing Tip Clog

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



2. Put safety ON. Return SwitchTip to original position. Take safety OFF and continue spraying.

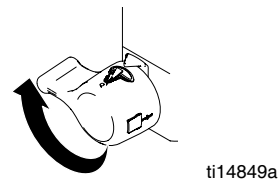


Fast Flush

(Mark V and Mark VII)

To flush the hose and gun at an accelerated speed, perform the following steps:

1. Perform steps 1 - 3 of **Cleanup**, page 20.
2. Squeeze gun trigger and turn prime valve down to DRAIN position and then over to FAST FLUSH.



3. Continue flushing system until fluid appears clear.

E-Control

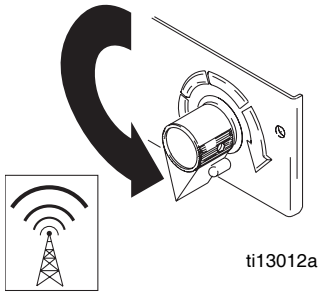
(Available on Max Units)

NOTICE

Do NOT submerge E-Control device in liquid or damage will occur. This transmitter device has a 4% Duty Cycle.

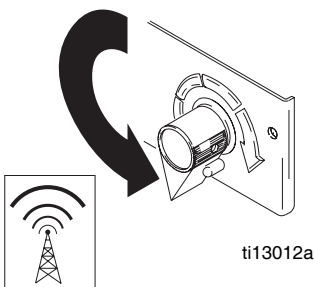
E-Control Mode

The E-Control acts in place of the pressure control knob when the sprayer is in E-Control mode. On E-Control equipped sprayers, turning the pressure control knob counter-clockwise to the detent shuts the sprayer off. Turning the knob fully counter-clockwise, past the detent (a click will be felt), puts the sprayer in E-Control mode.

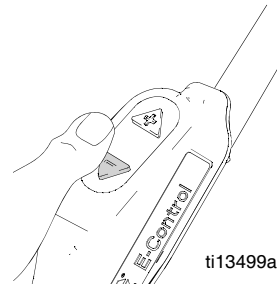


Using E-Control to Adjust Pressure

1. Put the sprayer in E-Control mode. When this is done, the stall pressure of the sprayer is set to the current system pressure.

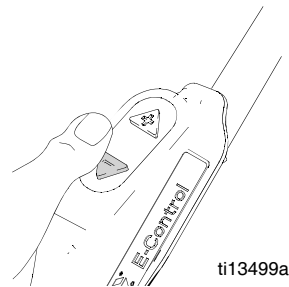


2. Press the E-Control UP or DOWN to increase or decrease the stall pressure setting by 3 bar.



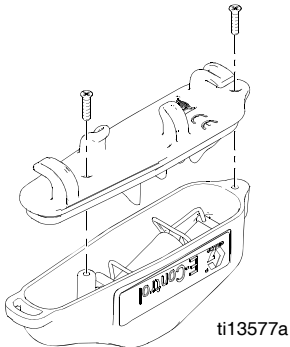
For example: Turn the pressure control knob to approximately the desired operating pressure. With the gun closed, the sprayer builds pressure and stops. If the sprayer stops at 170 bar and is then put into E-Control mode, the stall pressure will still be 170 bar. From here the E-Control can be used to modify the stall pressure.

3. If the stall pressure reaches the limit in either direction (i.e. 227 bar or 0 bar), the sprayer beeps 3 times to indicate that the stall pressure cannot change anymore.
4. If the E-Control UP or DOWN is pressed and held for 4 seconds, the stall pressure will change to maximum sprayer setting or 0 bar.

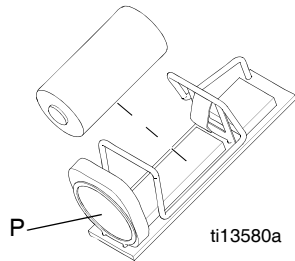


E-Control Battery Replacement

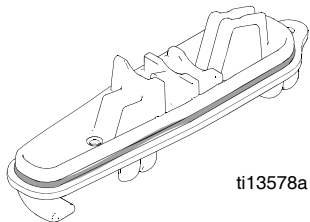
1. Remove two screws on back of E-Control and separate the two halves.



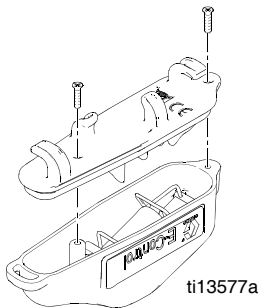
2. Replace old battery with Sanyo CR123A or equivalent as shown above. Make sure metal plate (P) is installed as shown.



3. Check o-ring for damage and replace if necessary.



4. Reattach two halves and tighten two screws.



Identification Code

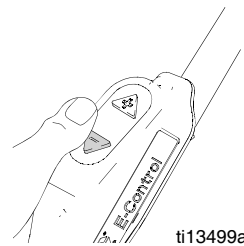
Each E-Control has a unique identification code. To use E-Control with a sprayer, the sprayer must learn the identification code of that E-Control. A sprayer can only learn one E-Control, but the same E-Control can be learned by multiple sprayers. This is not recommended if the sprayers are going to be used in the same area.

NOTE: The E-Control Device that comes with the sprayer has already been learned to that sprayer.

1. Press and release the display button until LEARN is displayed.



2. To send a signal to the sprayer, press either button on the E-Control.





3. The sprayer beeps twice and displays OK to indicate that the E-Control identification code has been successfully stored.

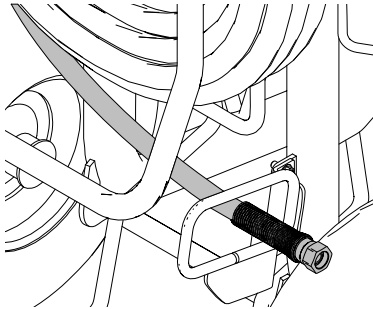


Hose Reel

(Available on Max Units)

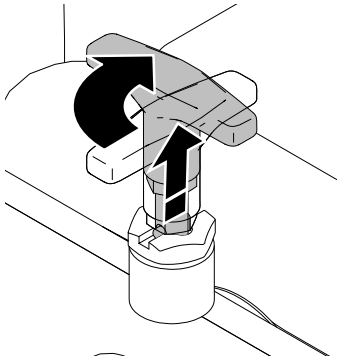
		
<p>Moving parts can pinch, cut or amputate fingers and other body parts. To avoid injury from moving parts, be sure to keep your head clear of hose reel while winding up hose.</p>		

1. Make sure hose is routed through hose guide.



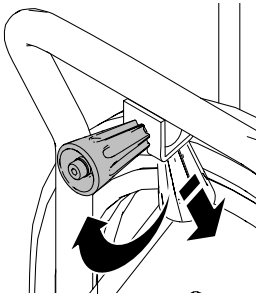
ti18241a

2. Lift and turn pivot lock 90° to unlock hose reel. Pull on hose to remove it from hose reel.

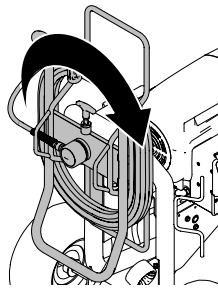


ti13501b

3. Pull reel handle up and turn clockwise to reel in hose.

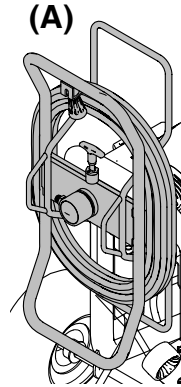


ti13503b

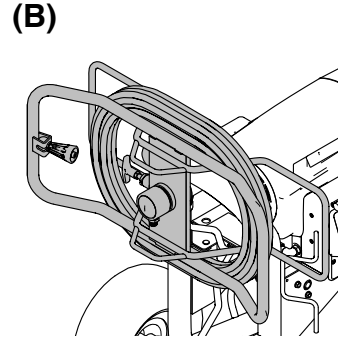


ti13502b

NOTE: The hose reel can be locked into two positions: Usage (A) and Storage (B).



(A)



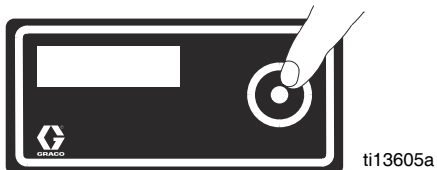
(B)

ti13563b

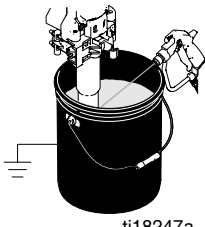
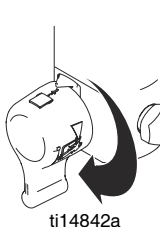
Digital Tracking System

Operation Main Menu

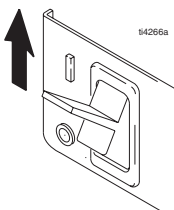
Short press to move to next display. Press and hold (5 seconds) to change units or reset data.



1. Turn pressure to lowest setting. Trigger gun to relieve pressure. Turn prime valve down to DRAIN position. Make sure you are not in E-Control mode.

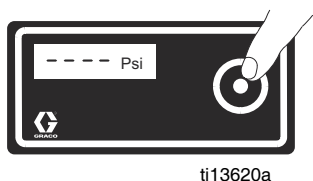


2. Turn power ON. Pressure display appears. Dashes will not appear unless pressure is less than 200 psi (14 bar, 1,4 MPa).



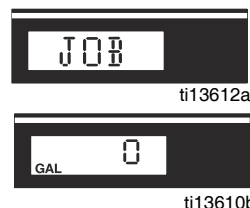
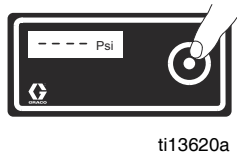
Change Display Units

Press and hold DTS button for 5 seconds to change pressure units (**psi**, **bar**, **MPa**) to desired units. Selection of bar or MPa changes **gallons** to **liters x 10**. To change display units DTS must be in pressure display mode and pressure must be at zero.



Job Gallons

1. Short press DTS button to move to Job Gallons (or liters x 10).



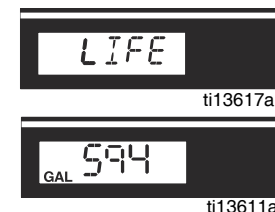
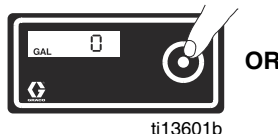
NOTE: JOB scrolls past, then the number of gallons sprayed above 1000 psi (70 bar, 7 MPa) for Mark V units; 400 psi (28 bar, 2.8 MPa) for Mark VII and Mark X displays.

2. Press and hold to reset to zero.

Lifetime Gallons

1. Short press DTS button to move to Lifetime Gallons (or liters x 10).

NOTE: LIFE scrolls briefly, then the number of gallons sprayed above 1000 psi (70 bar, 7 MPa) for Mark V units; 400 psi (28 bar, 2.8 MPa) for Mark VII and Mark X displays.



LEARN Mode

1. Short press DTS button to move to LEARN mode. Press either E-Control button to link E-Control to the sprayer. OK will display briefly, then display will return to Pressure Display mode.



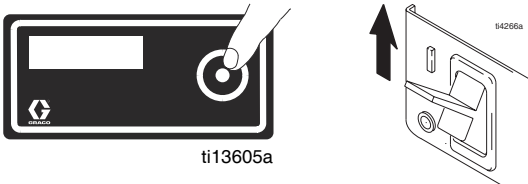
2. Short press DTS button to return to Pressure.



Secondary Menu - Stored Data (Mark V)

1. Perform **Pressure Relief**, steps 1 - 4 if they have not already been done.

2. Turn power switch on while holding DTS button down.



3. **SERIAL NUMBER** scrolls past and then serial number (e.g. 00001) displays.



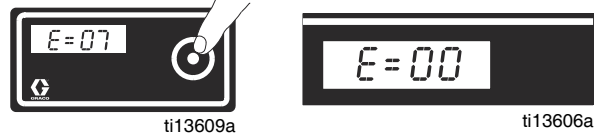
4. Short press DTS button and **MOTOR HOURS** scrolls past and then total motor run hours are displayed.



5. Short press DTS button. **LAST CODE** scrolls by and last code is displayed; e.g. **E=07** (see Repair manual).



6. Press and hold DTS button to clear code to zero.



7. Short press to move to **SOFTWARE REV.**

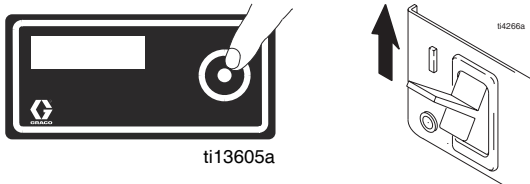


8. Short press DTS button. **MOTOR ID RESISTOR** scrolls by and model code number (see below).

Code Number	Models
4	230V MARK V
6	230V MARK VII
10	230V Mark X

Secondary Menu - Stored Data (Mark VII and Mark X)

1. Perform **Pressure Relief**, steps 1 - 4 if they have not already been done.
2. Turn power switch on while holding DTS button down.



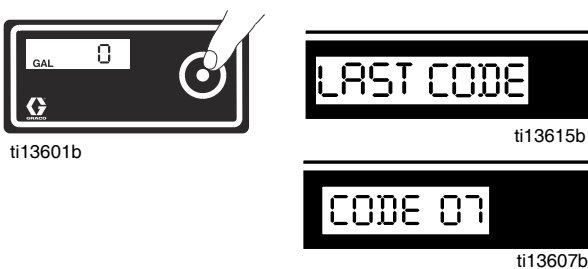
3. **SERIAL NUMBER** scrolls past and then serial number (e.g. 00001) displays.



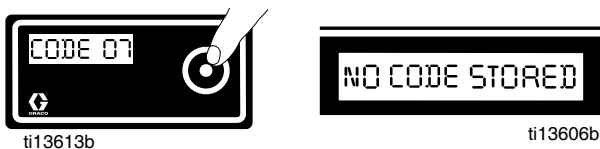
4. Short press DTS button and **MOTOR HOURS** scrolls past and then total motor run hours are displayed.



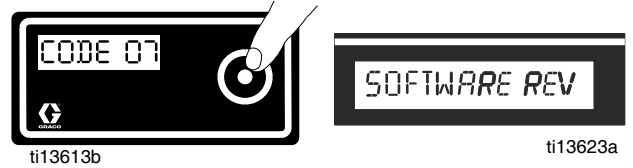
5. Short press DTS button. **LAST CODE** scrolls by and last code is displayed; e.g. **E=07** (see Repair manual).



6. Press and hold DTS button to clear code to zero.



7. Short press to move to **SOFTWARE REV.**



8. Short press DTS button. **MOTOR ID RESISTOR** scrolls by and model code number (see below).

Motor ID Number	Models
4	230V MARK V
6	230V MARK VII
10	230V Mark X

Code Definitions

(See Repair manual for additional code information)

Code 02:

Pressure in the sprayer has spiked. Typical causes of this are using a small diameter hose, using a short hose, or using a non-Graco hose (Graco hoses are designed to absorb pressure spikes).

Code 04:

The sprayer has detected incoming voltage surges. Unplug sprayer and locate another circuit.

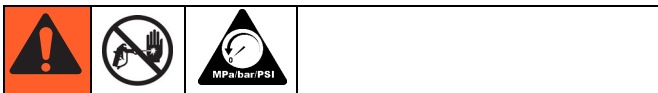
Code 05:

The pump is unable to move. You may need to thin the material if it is too thick. See Repair manual for additional troubleshooting assistance.

Code 06 and Code 10:

The motor or control board temperature sensors are detecting high temperatures. Spraying thick materials through a small tip can cause this condition. Thin your material or switch to a larger tip. **NOTE:** It can take up to an hour for the sprayer to cool down.

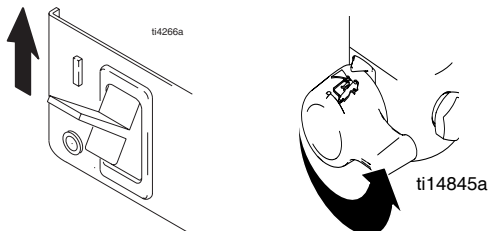
Cleanup



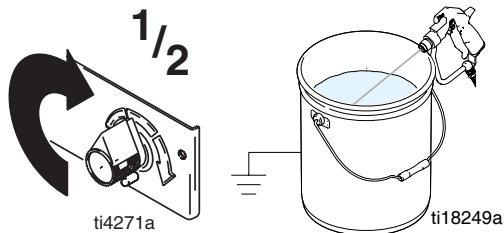
1. Perform **Pressure Relief Procedure** (page 10), steps 1 - 4. Remove tip guard from gun.

NOTE: Use water for water-base material, mineral spirits for oil-base material, or other solvents recommended by manufacturer.

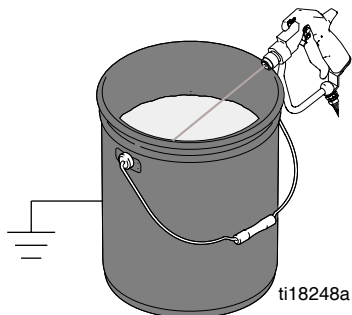
2. Turn power **ON**. Turn prime valve forward to **SPRAY** position.



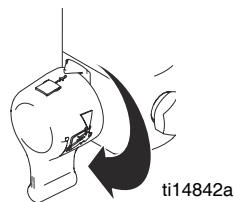
3. Increase pressure to 1/2. Hold gun against pail. Take trigger safety **OFF**. Trigger gun until flushing fluid appears.



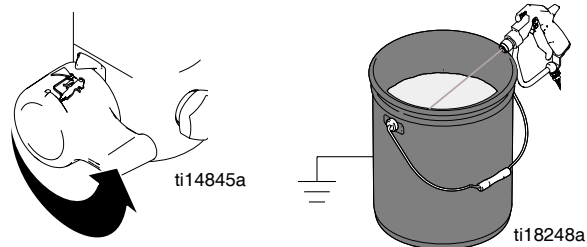
4. Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and put trigger safety **ON**.



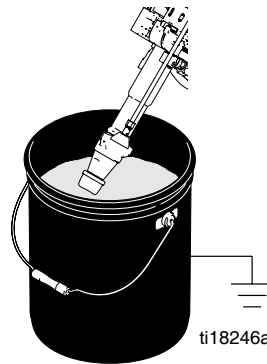
5. Turn prime valve down to **DRAIN** position and allow flushing fluid to circulate until flushing fluid appears clear.



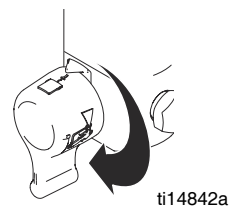
6. Turn prime valve forward to **SPRAY** position. Trigger gun into flushing pail to purge fluid from hose.



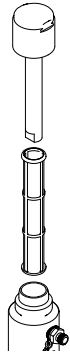
7. Raise pump above flushing fluid and run sprayer for 15 to 30 seconds to drain fluid. Turn power **OFF**



8. Turn prime valve down **DRAIN** position. Unplug sprayer.

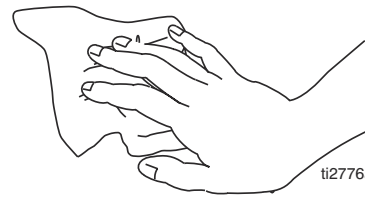


9. Remove filters from gun and sprayer, if installed. Clean and inspect. Install filters.



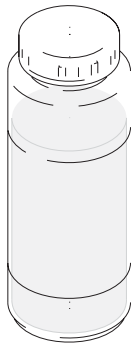
ti13454a

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



ti2776a

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



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Pump Armor

Technical Data

Mark V		
	U.S.	Metric
230V, A, Hz	10A, 50/60	10A, 50/60
Generator Minimum W	5000	5000
Motor	2.2 HP	1.6 kW
Cycles	115 per gallon	30 per liter
Maximum Delivery	1.2 gpm	4.3 lpm
Maximum Tip Size	0.035 in.	0.035 in.
Dimensions		
Weight		
Premium	130 lb	59 kg
Max	151 lb	68 kg
Height		
Premium	29.9 in. Handle down, 40.1 in. Handle up	76 cm Handle down, 102 cm Handle up
Max	39.1 in.	99 cm
Length		
Premium	25.1 in.	64 cm
Max	28.1 in.	71 cm
Width	24.3 in.	62 cm
Noise Level		
Sound power*	91dBa	
Sound pressure*	82 dBa	
Wetted Parts	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum tungsten carbide, brass	
*per ISO 3744; measured at 3.1 feet (1 m)		

Mark V				
	U.S.	Metric	U.S.	Metric
100-120V, A, Hz	20A, 50/60	20A, 50/60	15A, 50/60	15A, 50/60
Generator Minimum W	5000	5000	5000	5000
Motor	2.8 HP	2.1 kW	2.2 HP	1.6 kW
Cycles	110 per gallon	29 per liter	115 per gallon	30 per liter
Maximum Delivery	1.35 gpm	5.1 lpm	1.2 gpm	4.3 lpm
Maximum Tip Size	0.039 in.	0.039 in.	0.035 in.	0.035 in.
Dimensions				
Weight				
Premium	130 lb	59 kg	130 lb	59 kg
Max	151 lb	68 kg	151 lb	68 kg
Height				
Premium	29.9 in. Handle down, 40.1 in. Handle up	76 cm Handle down, 102 cm Handle up	29.9 in. Handle down, 40.1 in. Handle up	76 cm Handle down, 102 cm Handle up
Max	39.1 in.	99 cm	39.1 in.	99 cm
Length				
Premium	25.1 in.	64 cm	25.1 in.	64 cm
Max	28.1 in.	71 cm	28.1 in.	71 cm
Width	24.3 in.	62 cm	24.3 in.	62 cm
Noise Level				
Sound power*	91dBa			
Sound pressure*	82 dBa			
Wetted Parts	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum tungsten carbide, brass			
*per ISO 3744; measured at 3.1 feet (1 m)				

Mark VII		
	U.S.	Metric
230V, A, Hz	16A, 50/60	16A, 50/60
Generator Minimum W	5000	5000
Motor	2.5 HP	1.9 kW
Cycles	97 per gallon	26 per liter
Maximum Delivery	1.58 gpm	6.0 lpm
Maximum Tip Size	0.041 in.	0.041 in.
Dimensions		
Weight	160 lb	73 kg
Height	39.1 in.	99 cm
Length	28.1 in.	71 cm
Width	24.3 in.	62 cm
Noise Level		
Sound power*	91dBa	
Sound pressure*	82 dBa	
Wetted Parts	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum tungsten carbide, brass	
*per ISO 3744; measured at 3.1 feet (1 m)		

Mark X		
	U.S.	Metric
230V, A, Hz	16A, 50/60	16A, 50/60
Generator Minimum W	5000	5000
Motor	4.0 HP	3.0 kW
Cycles	70 per gallon	19 per liter
Maximum Delivery	2.2 gpm	8.3 lpm
Maximum Tip Size	0.045 in.	0.045 in.
Dimensions		
Weight		
Premium	154 lb	70 kg
Max	178 lb	81 kg
Height		
Premium	29.9 in. Handle down, 40.1 in. Handle up	76 cm Handle down, 102 cm Handle up
Max	39.1 in.	99 cm
Length		
Premium	26.5 in.	67 cm
Max	29.7 in.	75 cm
Width	24.3 in.	62 cm
Noise Level		
Sound power*	91dBa	
Sound pressure*	82 dBa	
Wetted Parts	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum tungsten carbide, brass	
*per ISO 3744; measured at 3.1 feet (1 m)		

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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FOR GRACO CANADA CUSTOMERS

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Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA

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