Operation, Parts

GX Electric Airless Sprayers



For professional use only.

Not approved for use in explosive atmospheres or hazardous locations. For portable airless spraying of architectural paints and coatings.

Models: GX

3000 psi (207 bar, 20.7 MPa) Maximum Working Pressure

See page 4 for additional model information.

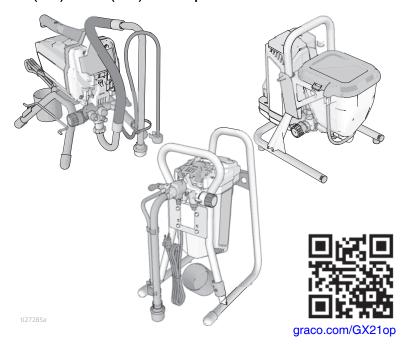


Important Safety Instructions

Read all warnings and instructions in this manual, related manuals, and on the unit including the power cord. Be familiar with the controls and the proper usage of the equipment. Save these instructions.

Related Manuals

Gun - 311861 (FTX) 312830 (SG3) Pump - 3A3172



Use only genuine Graco replacement parts. The use of non-Graco replacement parts may void warranty.

PROVEN QUALITY, LEADING TECHNOLOGY.

ΕN

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Graco Information

Thank You for Your Purchase!

Before using your sprayer read this Owners Manual for complete instructions on proper use and safety warnings.

Congratulations! You have purchased a high-quality paint sprayer made by Graco Inc. This sprayer is designed to provide superior spray performance with architectural paints and coatings.

Please read the information on the material container label to determine if it can be used with your sprayer. Ask for a Safety Data Sheet (SDS) from your supplier. The container label and SDS will explain the contents of the material and the specific precautions related to it.

Models

Models

	VAC	Model	Stand	DI Stand	Hopper
		GX 19	17H211		
c Us		GX 21		24Y680	
		FinishPro			17F924
Intertek		GX 19			171 924
110474 Certified to	120				
CAN/CSA	USA				
C22.2 No. 68 Conforms to					
UL 1450					
	000	GX 21		17H221	
SA & Brazil	230				
	Schuko [®]				
		GX 21		24Y680	
		GA 21		241000	
CA & Brazil	110				
	230 Europe	GX 21		17H218	
	Multi	GX FF			17H222
		GX 21		17G183	
CE	230	GX FF			17G184
	Schuko				
		GX 21		17H219	
	230	GX 19	17H214		
	Schuko	GX 19			17H223
ري	Asia/ANZ				

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 symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, 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.

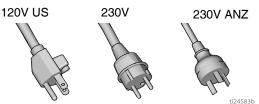
WARNING



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 120V or 230V circuit and has a grounding plug similar to the plugs illustrated 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 grounding 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 (2.5mm²) 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.

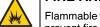
Conductor Size	Length	
AWG (American Wire Gauge)	Metric	Maximum
16	1.5 mm ²	25 ft. (8 m)
12	2.5 mm ²	50 ft. (15 m)

Narninas

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:

Paint or solvent flowing through the equipment is able to result in static electricity. Static



- Do not spray combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- 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. Do not use pail liners unless they are anti-static or conductive.
- 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.
- Do not spray combustible liquids in a confined area.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.
- Sprayer generates sparks. Keep pump assembly in a well ventilated area a least 20 feet (6.1 m) from the spray area when spraying, flushing, cleaning, or servicing. Do not spray pump assembly.
- Do not smoke in the spray area or spray where sparks or flame is present.
- 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 Safety Data Sheet (SDS) 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.

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MARNING

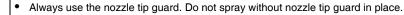


SKIN INJECTION HAZARD

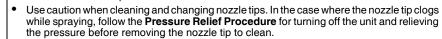
High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, **get immediate surgical treatment.**



- 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.



Use Graco nozzle tips.





- Equipment maintains pressure after power is shut off. Do not leave the equipment energized or under pressure while unattended. Follow the **Pressure Relief Procedure** when the equipment is unattended or not in use, and before servicing, cleaning, or removing parts.
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- This system is capable of producing 3000 psi. Use Graco replacement parts or accessories that are rated a minimum of 3000 psi.
- 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.

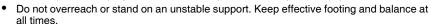


EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.







- Stav alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not kink or over-bend the hose.
- Do not expose the hose to temperatures or to pressures in excess of those specified by Graco.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not spray with a hose shorter than 25 feet.
- 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.



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.



- 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.

Warnings

MARNING



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.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Do not use chlorine bleach.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.



MOVING PARTS HAZARD

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



- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



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 MSDSs to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



PERSONAL PROTECTIVE EQUIPMENT

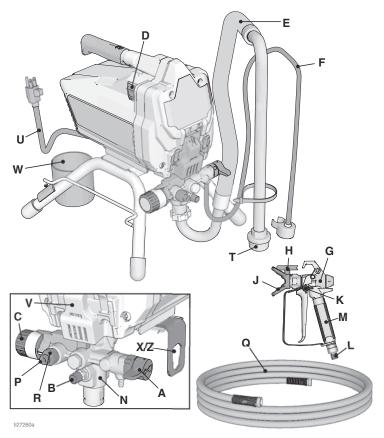
Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective evewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Know Your Sprayer Stand Models

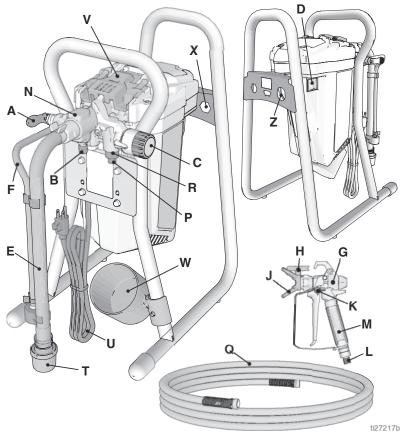


Α	Prime / Spray Valve
В	PushPrime™ Button
С	Pressure Control Knob
D	ON/OFF Switch
Е	Suction Tube
F	Drain Tube (with diffuser)
G	Airless Spray Gun
Н	Reversible Spray Tip
J	Tip Guard
K	Gun Trigger Lock
L	Gun Fluid Inlet Fitting
М	Gun Fluid Filter (inside handle)
N	ProXChange™ Pump (behind Easy Access Door)

Р	Pump Fluid Outlet Fitting (airless hose connection)				
Q	Airless Hose				
R	InstaClean™ Fluid Filter (inside fluid outlet)				
Т	Inlet Strainer				
U	Power Cord				
V	Easy Access Door				
W	Suction / Drain Tube Cup				
X/Z	Pump & Inlet Valve Removal Tool				
Model/Serial Tag (Not shown, locate on bottom of unit.)					
See Quick Reference , page 32 for more information.					

Know Your Sprayer

DI Stand Models

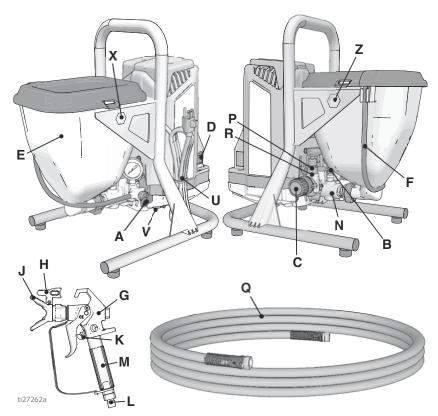


Α	Prime / Spray Valve
В	PushPrime Button
С	Pressure Control Knob
D	ON/OFF Switch
Е	Suction Tube
F	Drain Tube (with diffuser)
G	Airless Spray Gun
Н	Reversible Spray Tip
J	Tip Guard
K	Gun Trigger Lock
L	Gun Fluid Inlet Fitting
М	Gun Fluid Filter (inside handle)
N	ProXChange™ Pump (behind Easy Access Door)

Р	Pump Fluid Outlet Fitting (airless hose connection)			
Q	Airless Hose			
R	InstaClean™ Fluid Filter (inside fluid outlet)			
Т	Inlet Strainer			
U	Power Cord			
V	Easy Access Door with Cover			
W	Suction / Drain Tube Cup			
Χ	Pump Removal Tool			
Z	Inlet Valve Removal Tool			
	Model/Serial Tag (Not shown, located on bottom of unit.)			
See Quick Reference , page 32 for more information.				

Know Your Sprayer

Hopper Models



Α	Prime / Spray Valve
В	PushPrime Button
С	Pressure Control Knob
D	ON/OFF Switch
Е	Hopper
F	Drain Tube (with diffuser)
G	Airless Spray Gun FTX
Н	Reversible Spray Tip, Fine Finish
J	Tip Guard
K	Gun Trigger Lock
L	Gun Fluid Inlet Fitting
М	Gun Fluid Filter (inside handle)
N	ProXChange™ Pump (behind Easy Access Door)
Р	Pump Fluid Outlet Fitting (airless hose connection)

Q	Airless Hose					
R	InstaClean™ Fluid Filter (inside fluid outlet)					
Т	Inlet Strainer, inside hopper not shown					
U	Power Cord					
V	Easy Access Door					
Χ	Pump Removal Tool					
Z	Inlet Valve Removal Tool					
	Model/Serial Tag (Not shown, located on bottom of unit.)					
0	Con Ovilak Deference many 00 for more					

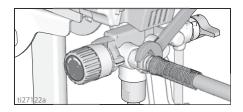
See **Quick Reference**, page 32 for more information.

Setup

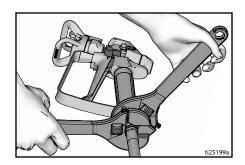
Setup

When unpacking sprayer for the first time or after long term storage perform setup procedure.

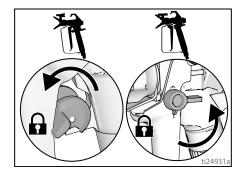
 Connect Graco airless hose to fluid outlet. Use wrench to tighten securely.



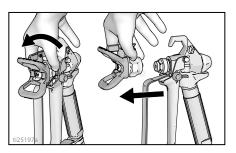
2. Connect other end of hose to gun.



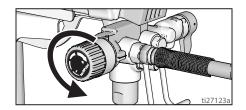
- Use wrenches to tighten securely. If hose is already connected, make sure connections are tight.
- 4. Engage trigger lock.



5. Remove tip guard. Do not lose the seal.



Turn Pressure Control Knob all the way left (counter-clockwise) to minimum pressure.



 When unpacking sprayer for the first time remove packaging materials from inlet strainer. After long term storage check inlet strainer for clogs and debris.

Strain the Paint

Previously opened paint may contain dried paint or other debris. To avoid priming problems and spray tip clogs it is recommended to strain the paint before using. Paint strainers are available where paint is sold. Stretch a paint strainer over a clean pail and pour the paint through the strainer to capture any dried paint and debris before spraying.



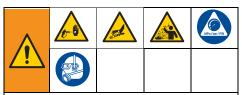
Start Up



Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.

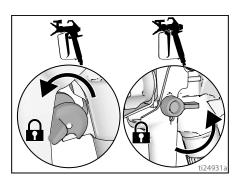


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection or splashed fluid, follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced.

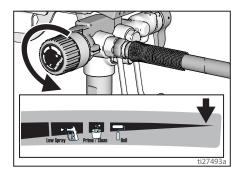
Turn ON/OFF switch to the OFF position.



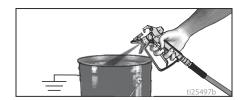
 Engage the trigger lock. Always engage the trigger lock when sprayer is stopped to prevent the gun from being triggered accidentally.



Turn pressure control to lowest setting.



- 4. Put drain tube into a pail and place Prime/Spray valve in PRIME position (drain) to relieve pressure.
- 5. Hold the gun firmly to a pail, point gun into pail. Disengage the trigger lock and trigger the gun to relieve pressure.



- 6. Engage the trigger lock.
- If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved:
 - VERY SLOWLY loosen the spray tip guard retaining nut or the hose end coupling to relieve pressure gradually.

Start Up

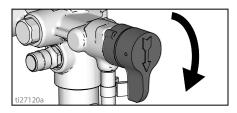
- b. Loosen the nut or coupling completely.
- c. Clear airless hose or spray tip obstruction.

Prime/Spray Valve

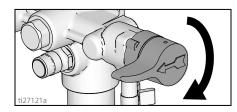
There are two types of Prime/Spray valves used on this group of Graco sprayers.

The first type of Prime/Spray valve uses a knob that can be turned between the PRIME and SPRAY position.

PRIME GX 19

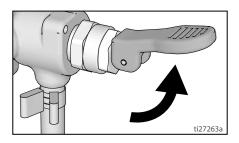


SPRAY GX 19

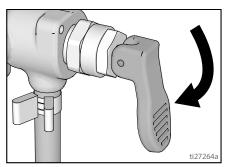


The other type of Prime/Spray valve uses a lever that can be flipped between the PRIME and SPRAY position.

PRIME FinishPro GX 19, GX 21



SPRAY FinishPro GX 19, GX 21



Flush Storage Fluid

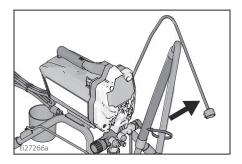
This sprayer arrives from the factory with a small amount of test material in the system. It is important that you flush this material from the sprayer before using it for the first time. See Cleaning Fluid Compatibility, page 30 and Static Grounding Instructions, page 31 for additional information.

- Perform Pressure Relief Procedure, page 13.
- Make certain ON/OFF switch is OFF.



Stand Models

a. Separate drain tube (smaller) from suction tube (larger).



b. Place drain tube in waste pail.

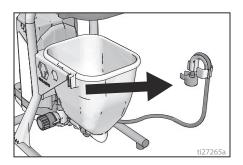


 Submerge suction tube in a pail partially filled with water or flushing fluid.

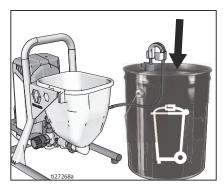


Hopper Models

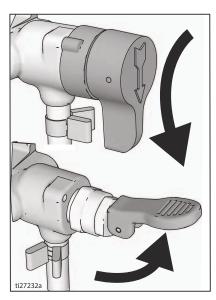
a. Lift drain tube with retainer off the hopper.



 While holding the drain tube retainer with drain tube parallel to the top of a waste pail twist retainer over the lip of the pail. Drain tube should now be inside the waste pail.



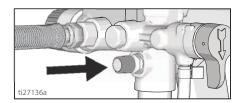
- Pour approximately two quarts (two liters) of water or flushing fluid into the hopper.
- 3. Place Prime/Spray valve in PRIME position.



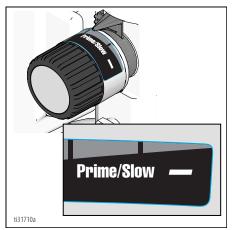
4. Plug power supply cord into a properly grounded electrical outlet.

Start Up

Press PushPrime button twice to loosen inlet ball.



Align setting indicator with Prime/Clean setting on Pressure Control Knob.



7. Turn ON/OFF switch to **ON** position.



- When sprayer starts pumping, flushing solvent and air bubbles will be purged from system. Allow fluid to flow out of drain tube into waste pail for 30 to 60 seconds. On hopper models, allow fluid to flow out of drain tube until hopper is nearly empty.
- 9. Turn ON/OFF switch to **OFF** position.









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

Inspect for leaks. If leaks occur, perform Pressure Relief Procedure, page 13, then tighten all fittings and repeat Start Up. If there are no leaks continue with the next step.

Fill Pump

- Move suction tube to paint pail and submerge suction tube in paint. On hopper models and add paint to the hopper.
- 2. Turn ON/OFF switch to **ON** position.
- Wait to see paint coming out of the drain tube.
- 4. Turn ON/OFF switch to **OFF** position.

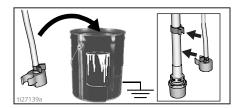
NOTE: Some fluids may prime faster if the ON/OFF switch is momentarily turned off so the pump can slow and stop. Turn ON/OFF switch on and off several times if necessary.

Fill Gun

- Hold gun against waste pail. Point gun into waste pail.
 - a. Disengage trigger lock.
 - b. Pull and hold gun trigger.
 - Turn Prime/Spray valve to SPRAY position.
 - d. Turn ON/OFF switch to ON position.



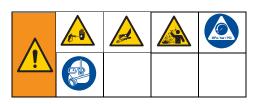
- 2. Trigger gun into waste pail until only paint comes out of the gun.
- 3. Release trigger. Engage trigger lock.
- 4. Transfer drain tube to paint pail and clip to suction tube. On hopper models, clip drain tube to hopper.



NOTE: When motor stops sprayer is ready to paint. If motor continues to run sprayer is not properly primed, repeat **Fill Pump** and **Fill Gun**.

How to Spray

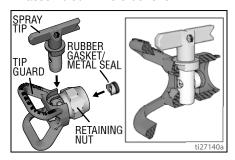
How to Spray



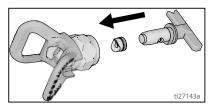
Spray Tip Installation

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

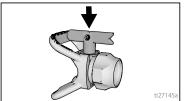
- 1. Perform Pressure Relief Procedure, page 13.
- Engage trigger lock.
- Verify spray tip and tip guard parts are assembled in the order shown.



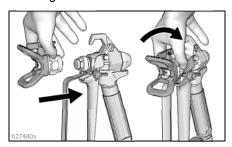
a. Use spray tip to align gasket and seal in the tip guard.



b. Spray tip must be pushed all the way into the tip guard. Turn spray tip to push down.

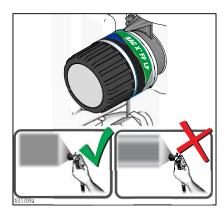


- c. Turn the arrow shaped handle on the spray tip forward to the spray position.
- 4. Screw spray tip assembly onto the gun and tighten.



Spray

When a RAC XTM FF LP Fine Finish Low Pressure reversible spray tip is used, spraying pressure can be lowered. Spraying at a lower pressure results in less overspray and reduces spray tip wear. Adjust the sprayer pressure to minimize overspray.



Atomized, evenly distributed fan pattern

Tails

Adjust Pressure Control

The pressure control knob allows for infinite pressure adjustment. To reduce overspray, always start at the lowest pressure setting and increase pressure to the minimum setting that results in an acceptable spray pattern.



To select function, align symbol on pressure control knob with setting indicator on sprayer.

Tip and Pressure Selection

See table for recommended spray pressure for your material. Refer to paint (material) can for manufacturer's recommendations.

Maximum tip hole sizes supported by the sprayer:

- GXFF, GX19, FinishPro GX19: 0.019 in. (0.48 mm)
- GX21: 0.021 in. (0.53 mm)

	Coatings					
	Stains	Enamels	Primers	Interior Paints	Exterior Paints	
Spray Pressure Setting	Low Spray	Low Spray	High Spray	High Spray	High Spray	
Tip Hole Size						
0.011 in. (0.28 mm)	~					
0.013 in. (0.33 mm)	~	~	~	~		
0.015 in. (0.38 mm)		~	~	~	~	
0.017 in. (0.43 mm)			~	V	~	
0.019 in. (0.48 mm)					~	
0.021 in. (0.53 mm)					~	

Fine Finish Tips

Fine Finish tips have an additional orifice that provides a finer atomization of the material.

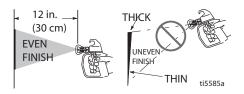
	Coatings						
Size	Polyurethane	Lacquer	Sanding Sealer	Enamels	Latex		
Spray Pressure Setting	Low Spray	Low Spray	Low Spray	High Spray	High Spray		
0.008 in. (0.20 mm)	~	~	~				
0.010 in. (0.25 mm)	~	~	~				
0.012 in. (0.31 mm)				~			
0.014 in. (0.36 mm)					~		
0.016 in. (0.41 mm)					~		

How to Spray

Spray Techniques

Use a piece of scrap cardboard to practice these basic spraying techniques before you begin spraying the surface.

 Hold gun 12 in. (30 cm) from surface and aim straight at surface. Tilting gun to direct spray angle causes an uneven finish.

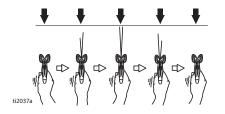


Flex wrist to keep gun pointed straight.
 Fanning gun to direct spray at angle causes uneven finish.



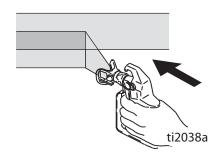
Triggering Gun

Pull trigger after starting stroke. Release trigger before end of stroke. Gun must be moving when trigger is pulled and released.



Aiming Gun

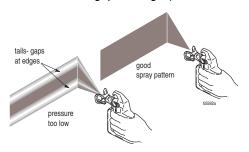
Aim center of spray of gun at bottom edge of previous stroke, overlapping each stroke by half.



Spray Pattern Quality

A good spray pattern is evenly distributed as it hits the surface.

 Spray should be atomized (evenly distributed, no gaps at edges).



If tails persist when spraying at the highest spray pressure:

- Spray tip may be worn. See **Spray Tip Selection**, page 30.
- A smaller spray tip may be needed.
- Material may need to be thinned. If material needs to be thinned follow manufacturer's recommendations.

How to Spray

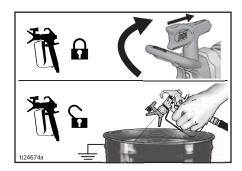
Clear Tip Clog

In the event that particles or debris clog the spray tip, this sprayer is designed with a reversible spray tip that quickly and easily clears the particles without disassembling the sprayer.

See **Strain the Paint**, page 12 for additional information.

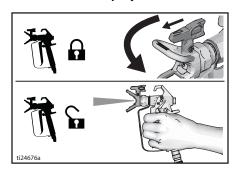
 Release trigger. Engage trigger lock. Rotate spray tip to unclog position. Disengage trigger lock. Trigger gun at waste area to clear clog.

Unclog



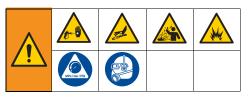
 Engage trigger lock. Rotate spray tip back to spray position. Disengage trigger lock and continue spraying.

Spray



Cleanup

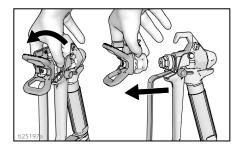
Cleaning the sprayer after each use results in a trouble free start up the next time the sprayer is used.



Cleaning from a Pail (Stand Models Only)

Pail flushing only works with models that have a suction tube.

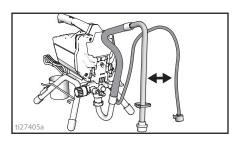
- For long term storage refer to Storage, page 29.
- See Cleaning Fluid Compatibility, page 30 and Static Grounding Instructions, page 31.
- 1. Perform **Pressure Relief Procedure**, page 13.
- 2. Remove tip guard and spray tip.



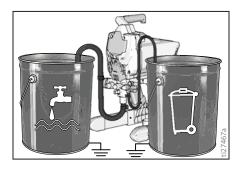
 Remove suction tube and drain tube from paint, wipe excess paint off outside.



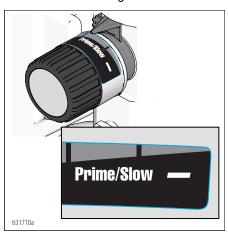
4. Separate drain tube (smaller) from suction tube (larger).



- 5. Place empty waste and flushing fluid pails side by side.
- Place suction tube in flushing fluid. Use water for water based paint and mineral spirits or compatible oil-based flushing solvent for oil-based paint. Place drain tube in waste pail.



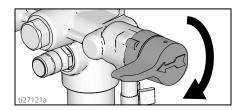
7. Turn pressure control knob to the Prime/Clean setting.

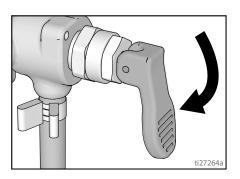


- 8. Place Prime/Spray valve in PRIME position.
- 9. Turn ON/OFF switch to **ON** position.
- Flush until approximately 1/3 of the flushing fluid is emptied from the pail.
- 11. Turn ON/OFF switch to OFF position.

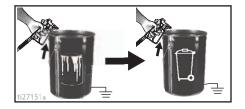
NOTE: Step 12 is for returning paint in airless paint hose to paint pail. One 50 ft (15 m) hose holds approximately 1 quart (1 liter) of paint.

- 12. To recover paint in hose:
 - a. Hold gun firmly to the paint pail.
 - b. Point gun into paint pail.
 - c. Disengage trigger lock.
 - d. Pull and hold gun trigger.
 - e. Place Prime/Spray valve in SPRAY position.

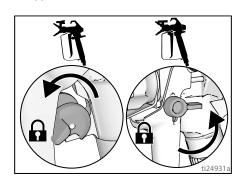




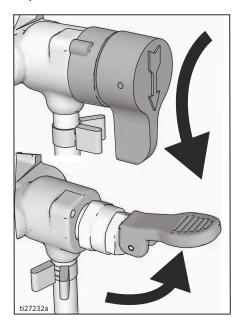
- f. Turn ON/OFF switch to **ON** position.
- g. Continue to hold gun trigger until you see paint diluted with flushing fluid starting to come out of gun.
- 13. While continuing to trigger gun, quickly move gun to redirect spray into waste pail. Continue triggering gun into waste pail until flushing fluid dispensed from gun is relatively clear.



 Stop triggering gun. Engage the trigger lock.



15. Place Prime/Spray valve in PRIME position.



- 16. Turn ON/OFF switch to OFF position.
- Clean filter. See Cleaning Insta-Clean[™] Fluid Filter, page 28.
- Fill unit with Pump Armor[™] fluid. See Storage, page 29.

Power Flush

(GX 21, Water-based materials Only)

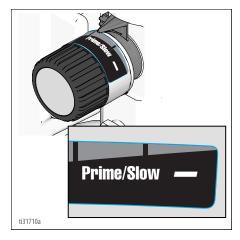
Power flushing is a faster method of flushing. It can only be used after spraying water-based coatings.

- Perform Pressure Relief Procedure, page 13.
- Remove spray tip and tip guard assembly from gun and place in waste pail.

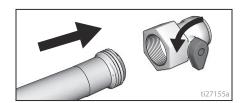
3. Place empty waste and paint pails side by side.



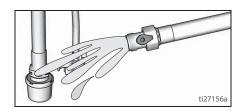
- 4. Lift suction tube and drain tube from paint pail. Let paint drain into the pail.
- 5. Place suction and drain tube in waste pail.
- 6. Turn Pressure Control knob to the Prime/Clean setting.



7. Screw power flush attachment valve to garden hose. Close valve.



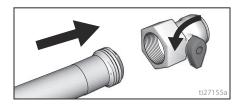
 Turn on water. Open valve. Rinse paint off suction tube, drain tube and inlet strainer then close valve.



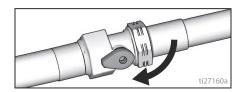
 Unscrew inlet strainer from suction tube. Place inlet strainer rinse in waste pail.



 Connect garden hose to suction tube with Power Flush attachment valve. Leave drain tube in waste pail.



- 11. Turn ON/OFF switch to **ON** position.
- 12. Open Power flush attachment valve.

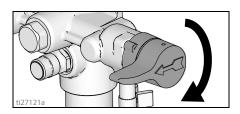


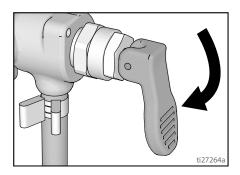
13. Circulate water through sprayer, into waste pail, for 20 seconds.

14. Turn ON/OFF switch to **OFF** position.

NOTE: Step 15 is for returning paint in hose to paint pail. One 50 ft (15 m) hose holds approximately 1 quart (1 liter) of paint.

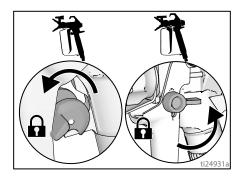
- 15. To recover paint in hose:
 - a. Hold gun firmly to the paint pail.
 - b. Point gun into paint pail.
 - c. Disengage trigger lock.
 - d. Pull and hold gun trigger.
 - e. Place Prime/Spray valve in SPRAY position.



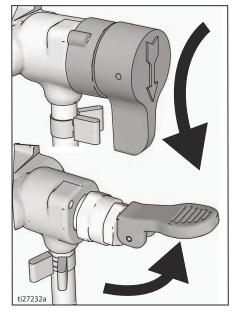


- f. Turn ON/OFF switch to **ON** position.
- g. Continue to hold gun trigger until you see paint diluted with flushing fluid starting to come out of gun.
- 16. While continuing to trigger gun, quickly move gun to redirect spray into waste pail. Continue triggering gun into waste pail until flushing fluid dispensed from gun is relatively clear.
- 17. Turn pressure control knob to the Prime/Clean setting.

Stop triggering gun. Engage the trigger lock.



19. Place Prime/Spray valve in PRIME position.



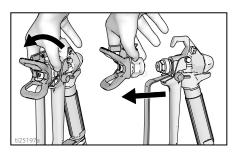
20. Turn ON/OFF switch to OFF position.

Hopper Flushing (Hopper Models Only)

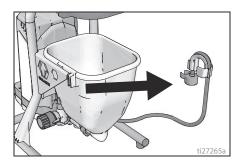
See Cleaning Fluid Compatibility, page 30.

- 1. Perform Pressure Relief Procedure, page 13.
- 2. Pour any remaining material out of the hopper.

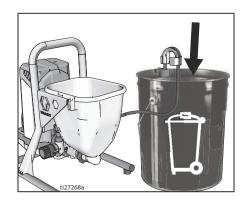
 Remove tip guard and Spray Tip. For additional information, see Clean the Gun, page 28.



4. Remove drain tube from paint hopper, wipe excess paint off outside.

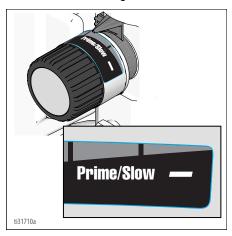


5. Place drain tube in waste pail.



 Pour flushing fluid into the hopper. Use water for water-based paint and mineral spirits for oil-based paint.

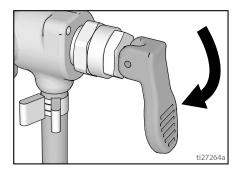
7. Turn pressure control knob to the Prime/Clean setting.



- 8. Turn ON/OFF switch to **ON** position.
- Flush until approximately 1/3 of the flushing fluid is emptied from the hopper.
- Turn ON/OFF switch to OFF position.

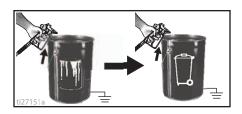
NOTE: Step 11 is for returning paint in hose to paint pail. One 50 ft (15 m) hose holds approximately 1 quart (1 liter) of paint.

- 11. To recover paint in hose:
 - a. Point gun into paint pail.
 - b. Disengage trigger lock.
 - c. Pull and hold gun trigger.
 - d. Place Prime/Spray valve in SPRAY position.

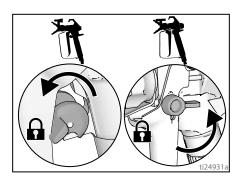


e. Turn ON/OFF switch to **ON** position.

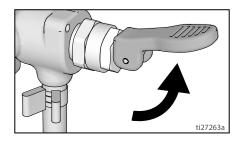
- f. Continue to hold gun trigger until you see paint diluted with flushing fluid starting to come out of gun.
- 12. While continuing to trigger gun, quickly move gun to redirect spray into waste pail. Continue triggering gun into waste pail until flushing fluid dispensed from gun is relatively clear.



Stop triggering gun. Engage the trigger lock.



14. Place Prime/Spray valve in PRIME position.



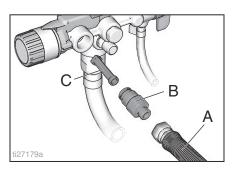
- 15. Turn ON/OFF switch to OFF position.
- On sprayers with a filter, see Cleaning InstaClean[™] Fluid Filter, page 28.
- 17. Fill unit with Pump Armor[™] storage fluid. See **Storage**, page 29.

Cleaning InstaClean[™] Fluid Filter

(Optional)

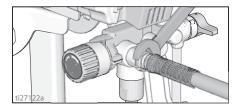
The InstaClean Fluid Filter prevents particles from entering paint hose. After each use, remove and clean it to ensure peak performance.

- Perform Pressure Relief Procedure, page 13.
- Disconnect airless spray hose (A) from sprayer.
- 3. Unscrew outlet fitting (B).
- 4. Remove InstaClean Fluid Filter (C).



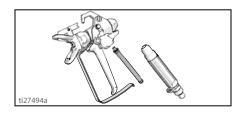
- Check InstaClean Fluid Filter (C) for debris. If needed, clean filter with water or flushing solvent and a soft brush.
 - a. Install closed (square) end of InstaClean Fluid Filter (C) in sprayer.
 - b. Screw outlet fitting (B) into sprayer.
- Tighten outlet fitting and reconnect hose

 (A) to sprayer. Use wrench to tighten securely.

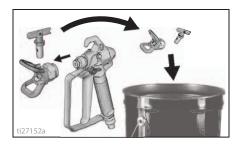


Clean the Gun

 Clean gun fluid filter with water or flushing fluid and a brush every time you flush the system. Replace gun filter if damaged.



Remove spray tip and tip guard assembly and clean with water or flushing fluid and a brush.



 Wipe paint off outside of gun using a soft cloth moistened with water or flushing fluid.

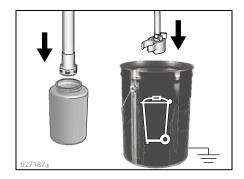
Storage

With proper storage, the sprayer will be ready to use the next time it is needed.

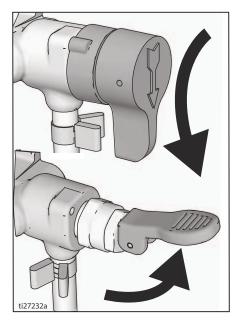


Always circulate Pump Armor storage fluid through system after cleaning. Water left in sprayer will corrode and damage pump. Follow Cleanup, page 22, or Power Flush, page 24.

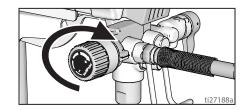
- Before storing sprayer make sure all water is drained out of sprayer and hoses.
- Do not allow water to freeze in sprayer or hose.
- Do not store sprayer under pressure.
- Store sprayer indoors.
- 1. Perform **Pressure Relief Procedure**, page 13.
- 2. On stand models place suction tube in Pump Armor fluid bottle and drain tube in waste pail.



 On hopper models pour Pump Armor into the hopper and place drain tube in waste pail. 4. Place Prime/Spray valve in PRIME position.



- 5. Turn ON/OFF switch to **ON** position.
- 6. Turn pressure control knob clockwise until the pump turns on.



- When storage fluid comes out of drain tube (5-10 seconds) turn ON/OFF switch to OFF position.
- Place Prime/Spray valve in SPRAY position to keep storage fluid in sprayer during storage.
- 9. Secure a plastic bag around suction and drain tube to catch any drips.

Reference

Reference

Spray Tip Selection Selecting Tip Size

Spray tips come in a variety of hole sizes for spraying a range of fluids. Your sprayer includes a tip for use in most paint spraying applications. Use coatings tables on page 19 to determine the range of recommended tip hole sizes for each fluid type.

Hints:

- As you spray, the tip wears and enlarges. Starting with a tip hole size smaller than the maximum will allow you to spray within the rated flow capacity of the sprayer.
- Use larger tip hole sizes with thicker coatings and smaller tip hole sizes with thinner coatings.
- Tips wear with use and need periodic replacement.
- Tip hole size controls flow rate the amount of paint that comes out of the gun.

Fan Width

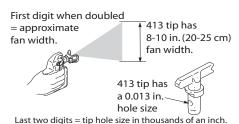
Fan width is the size of the spray pattern, which determines the area covered with each stroke.

Hints:

- Select a fan width best suited to the surface being sprayed.
- Wider fans allow provide better coverage on broad, open surfaces.
- Narrower fans provide better control on small, confined surfaces.

Understanding Tip Number

The last three digits of tip number (i.e.: 221413) contain information about hole size and fan width on surface when gun is held 12 in. (30.5 cm) from surface being sprayed.



Cleaning Fluid Compatibility



Oil- or Water-based Materials

- When spraying water-based materials, flush the system thoroughly with water.
- When spraying oil-based materials, flush the system thoroughly with mineral spirits or compatible, oil-based flushing fluid.
- To spray water-based materials after spraying oil-based materials, flush the system thoroughly with water first. The water flowing out of drain tube should be clear and solvent-free before you begin spraying the water-based material.

Reference

- To spray oil-based materials after spraying water-based materials, flush the system thoroughly with mineral spirits or a compatible oil-based flushing solvent first. The solvent flowing out of the drain tube should not contain any water. When flushing with solvents with compatible oil-based flushing fluids always follow Static Grounding Instructions, page 31.
- To avoid fluid splashing back on your skin or into your eyes, always aim gun at inside wall of pail.

Static Grounding Instructions









The equipment must be grounded to reduce the risk of static sparking and electric shock. An electric or static spark can cause fumes to ignite or explode. An improper ground can cause electric shock. A good ground provides an escape wire for the electric current.

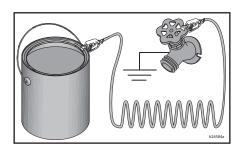
Always use a metal pail for oil-based materials requiring flushing with compatible oil-based flushing fluids when sprayer is flushed or pressure is relieved.

Follow local code. Use only conductive metal pails, placed on a grounded surface such as concrete.

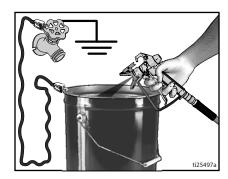
Do not place pail on a non-conductive surface such as paper or cardboard which interrupts grounding continuity.



Always ground a metal pail: connect a ground wire to the pail. Clamp one end to the pail and the other end to a true earth ground such as a water pipe.



To maintain ground continuity when sprayer is flushed or pressure is relieved hold metal part of spray gun firmly to the side of a grounded metal pail, then trigger the gun.



Reference

Quick Reference

Page 9		Description
A	Prime/Spray valve	 In PRIME position directs fluid to drain tube. In SPRAY position directs pressurized fluid to paint hose. Automatically relieves system pressure in overpressure situations.
В	PushPrime button	Taps the inlet ball when pushed to loosen it.
С	Pressure control knob	Increases (clockwise) and decreases (counter-clockwise) fluid pressure in pump, hose, and spray gun. To select function, align symbol on pressure control knob with setting indicator, page 13.
D	ON/OFF switch	Turns sprayer ON and OFF.
Е	Suction tube/Hopper	Draws fluid from paint pail into pump.
F	Drain tube	Drains fluid in system during priming and pressure relief.
G	Airless spray gun	Dispenses fluid.
Н	Reversible spray tip	 Atomizes fluid being sprayed, forms spray pattern and controls fluid flow according to hole size. Reverse position unclogs plugged tips without disassembly.
J	Tip guard	Reduces risk of fluid injection injury.
K	Gun trigger lock (page 12)	Prevents accidental triggering of spray gun.
L	Gun fluid inlet fitting	Threaded connection for airless hose.
M	Gun fluid filter	Filters fluid entering spray gun to reduce tip clogs.
N	ProXChange Pump	Pumps and pressurizes fluid and delivers it to paint hose.
Р	Pump fluid outlet fitting	Threaded connection for airless hose.
Q	Airless hose	Transports high-pressure fluid from pump to spray gun.
R	InstaClean [™] fluid filter	 Filters fluid coming out of pump to reduce tip plugging and improve finish. Self cleans only during pressure relief.
S	Pail hanger	For transporting pail by its handle.
T	Inlet strainer	Prevents debris from entering pump.
Ū	Power Cord	Plugs into power source.
V	Easy Access Door	Easy Access Door permits quick access to the pump. Open pump door by pulling out on the tabs while sliding door away from the pump inlet.
W	Suction/Drain Tube Cup	Holds suction and drain hoses.
X	Pump Removal Tool	Use cut out in the frame to remove/install pump packing.
Z	Inlet Valve Removal Tool	Cut out in the frame provide the tools to quickly remove/install the inlet valve without additional tools.
	Power Flush attachment	Connects garden hose to suction tube for power flushing water-based fluids.

Maintenance

Routine maintenance is important to ensure proper operation of your sprayer.













Activity	Interval
Inspect/clean InstaClean filter, fluid inlet strainer, and gun filter.	Daily or each time you spray
Inspect motor shroud openings for blockage.	Daily or each time you spray

NOTICE

Protect the internal drive parts of this sprayer from water. Openings in shroud allow cooling of mechanical parts and electronics inside. If water gets into these openings, the sprayer could malfunction or be permanently damaged.

Airless Hoses

Check hose for damage every time you spray. Do not attempt to repair hose if hose jacket or fittings are damaged. Do not use hoses shorter than 25 ft (7.6 m). Wrench tighten, using two wrenches.

Spray Tips

- Always clean tips with compatible cleaning fluid and brush after spraying.
- Tips may require replacement after 15 gallons (57 liters) or they may last through 60 gallons (227 liters) depending on abrasiveness of paint.

Pump Repair

When pump packings wear, paint will begin to leak down outside of pump.

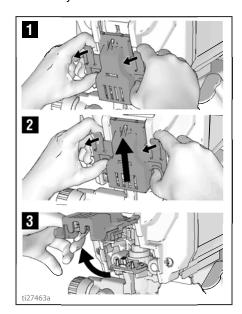
- Purchase a pump repair kit and install according to instructions provided with kit, before your next job.
- See Pump Assembly, page 46 or consult a Graco/MAGNUM authorized retailer, distributor, or service center.

Pump Removal

On FinishPro sprayers with a hopper the hopper must be removed before pump can be removed.

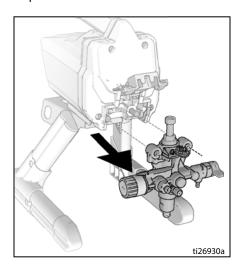
Always perform **Pressure Relief Procedure**, page 13 before starting any pump repairs.

- Pull tabs on sides of the easy access door pump towards you while pushing the entire door away from the inlet end of the pump.
- Now lift the door so that it swivels out of the way.



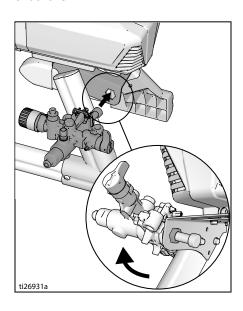
Maintenance

Slide pump assembly off the mounting pins.



ProXChange Removal Tool

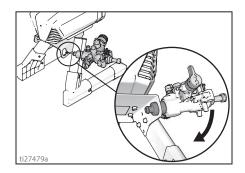
An integrated tool is included in the frame to remove the ProXChange packing assembly. See Pump repair manual for complete repair instructions.



Inlet Valve Removal

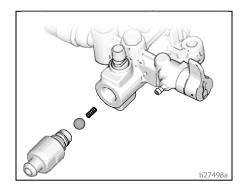
An integrated tool is included in the frame to remove the inlet valve assembly from the pump. If you suspect that the inlet valve is clogged or stuck, remove the valve assembly and clean or replace.

- Remove suction tube or hopper from sprayer.
- Insert pump inlet into frame and loosen the inlet valve. Remove inlet valve.



NOTICE

Do not lose the ball and spring inside the inlet valve assembly. It may fall out when the inlet valve is removed. Pump will not prime without the ball and spring.

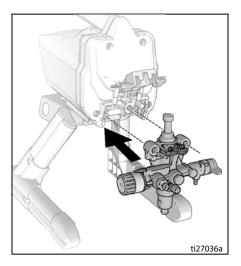


 Clean any debris and dried paint from the cavity and replace the ball and spring. Tighten inlet valve to pump using integrated tool on the frame.

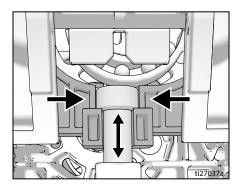
Maintenance

Pump Installation

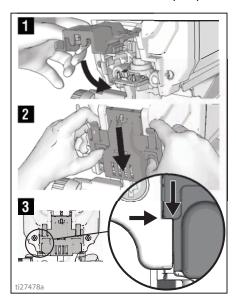
Slide pump assembly onto the mounting pins.



 Move pump displacement rod up or down until cap is level with the opening in the yoke.



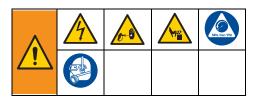
Swing easy access door pump door closed while pushing the entire door towards the inlet end of the pump.



NOTE: Door must be fully closed and latched before sprayer will operate.

Troubleshooting

Troubleshooting



- Follow Pressure Relief Procedure, page 13, before checking or repairing.
- 2. Solutions at the beginning of each problem listed are the most common, Start at the beginning and continue down the list to find a solution.
- 3. Check everything in this Troubleshooting Table before you bring the sprayer to an authorized service center.

Problem	Cause	Solution
Motor does not run: (verify sprayer is plugged in, and power switch is on)	Easy access door not fully closed.	Verify that easy access door is closed and latched. See page 35.
power switch is on)	Pressure control knob is set at zero pressure.	Turn pressure control knob clockwise to increase pressure setting.
	Electric outlet is not providing power.	Test outlet with known working device.
		Reset circuit breaker or replace fuse.
		Find working outlet.
		Reset building circuit breaker or replace fuse.
	Extension cord is damaged.	Replace extension cord. See page 5.
	Sprayer electric cord is damaged.	Check for broken insulation or wires. Replace electric cord if damaged.
	Pump is seized (Paint has hardened in pump	Turn ON/OFF switch off and unplug sprayer from outlet.
	or Water is frozen in pump.)	If frozen do NOT try to start sprayer until it is completely thawed or it may damage the motor, control board and/or drive train.
		Place sprayer in warm area for several hours. Check for free moving pump by removing shroud and spinning fan.
		If not frozen, check for hardened paint in pump. If paint has hardened in pump. See page 33.
		If motor does not turn with pump removed, consult a Graco/ Magnum authorized retailer, distributor, or service center.
	Motor or control is damaged.	Consult a Graco/ Magnum authorized retailer, distributor, or service center.

Troubleshooting

Problem	Cause	Solution
Sprayer runs, but pump does not prime or looses prime while in use. (Pump cycles but does not pump	Inlet valve check ball is stuck.	Press PushPrime button to dislodge the ball allowing pump to prime properly, OR Power Flush sprayer,
paint or build pressure.)		see page 24.
	Prime/Spray Valve is in SPRAY position.	Turn Prime/Spray Valve down to PRIME position until paint exits drain tube. The pump is now primed.
	Pump was not primed with flushing fluid.	Remove suction tube from paint. Prime pump with oil or water-based
	(Thick fluids may not prime if not initially primed with flushing fluid.)	flushing fluid. See page 14.
	Debris in paint.	Strain the paint. See page 12.
	Thick or "sticky" paint.	Some fluids may prime faster if the ON/OFF switch is momentarily turned off so the pump can slow and stop. Turn ON/OFF switch on and off several times if necessary.
	Inlet strainer is clogged or suction tube is not immersed in paint.	Clean debris off inlet strainer and make sure suction tube is immersed in paint.
	Inlet valve check ball or seat is dirty.	Remove inlet fitting. Clean or replace ball and seat. See page 34.
	Suction tube is leaking.	Inspect suction tube connection for cracks or vacuum leaks.
	Outlet valve check ball is stuck.	Unscrew outlet valve, remove, and clean assembly.
	Prime/Spray Valve is worn or obstructed with debris.	Take sprayer to Graco/MAGNUM authorized service center.

Troubleshooting

Problem	Cause	Solution
Pump is primed, but can not achieve	Spray tip may be partially clogged.	Clear spray tip clog. See page 21.
good spray pattern.	Reversible spray tip is in UNCLOG position.	Rotate arrow-shaped handle on spray tip so it points forward to SPRAY position. See page 21.
	Debris in paint.	Strain the paint. See page 12.
	Pressure is set too low.	Align pressure control knob setting indicator to desired spray setting. See page 19.
	InstaClean fluid filter is clogged.	Clean or replace InstaClean fluid filter. See page 28.
	Spray gun fluid filter is clogged.	Clean or replace gun fluid filter. See page 28.
	Spray tip selected is too large for capability of sprayer.	Replace tip. See page 19.
	Spray tip is worn beyond the capability of sprayer.	Replace tip. See page 19.
	Spray tip gasket and seal worn or missing.	Replace gasket and seal. See page 18.
	Inlet strainer is clogged or suction tube is not immersed in paint.	Clean debris off inlet strainer and make sure suction tube is immersed in paint.
	Extension cord is too long or not heavy enough gauge.	Replace extension cord. See page 5.
	Inlet pump valve or outlet pump valve is worn or clogged with debris.	Check for worn or contaminated inlet valve or outlet valve.
		- Prime sprayer with paint
		- Trigger gun momentarily
		- When trigger is released, pump should cycle momentarily and stop
		If pump continues to cycle, pump valves may be worn or contaminated with debris
		- Clean or replace valves with appropriate kits. See page 46.
	Material is too thick.	Thin material. Follow manufacturers recommendations.
	Airless hose is too long (if extra section was added).	Remove section of airless hose.
Spray gun stopped spraying while	Spray tip is clogged.	Clear spray tip clog. See page 21.
trigger is pulled.	Sprayer lost prime.	See troubleshooting section "Sprayer runs, but pump does not prime or looses prime while in use." on page 37.

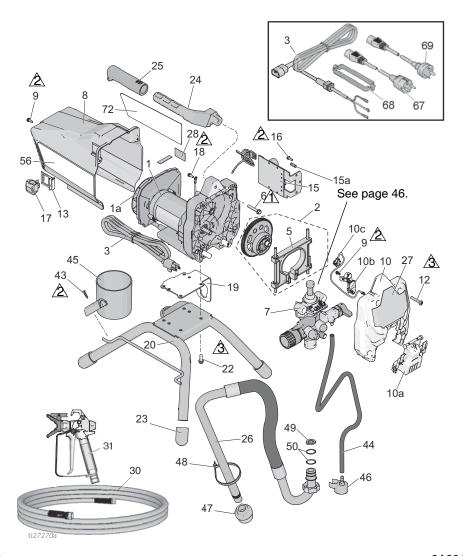
Troubleshooting

Problem	Cause	Solution
When paint is sprayed, it runs down	Material is going on too thick.	Move gun faster.
the wall or sags.		Choose a spray tip with smaller hole size.
		Choose spray tip with wider fan.
		Make sure gun is far enough from surface.
When paint is sprayed, coverage is inadequate.	Material is going on too thin.	Move gun slower.
inauequate.		Choose spray tip with larger hole size.
		Choose spray tip with narrower fan.
		Make sure gun is close enough to surface.
Fan pattern varies dramatically while spraying.	Pressure control switch is worn and causing excessive pressure variation.	Take sprayer to Graco/MAGNUM authorized service center.
Cannot trigger spray gun.	Spray gun trigger lock is engaged.	Rotate trigger lock to disengage trigger lock. See page 12.
Paint is coming out of pressure control.	Pressure control is worn.	Take sprayer to Graco/MAGNUM authorized service center.
Paint is leaking through drain tube.	Sprayer is over pressurizing.	Take sprayer to Graco/Magnum authorized service center.
Paint leaks down outside of pump.	Pump packings are worn.	Replace pump packings with new ProXChange module. See page 33.
Motor is hot and runs intermittently. Motor automatically shuts off due to excessive heat. Damage can occur if	Vent holes in enclosure are plugged or sprayer is covered.	Keep vent holes clear of obstructions and overspray and keep sprayer open to air.
cause is not corrected.	Extension cord is too long or not a heavy enough gauge.	Replace extension cord. See page 5.
	Unregulated electrical generator being used has excessive voltage.	Use electrical generator with a proper voltage regulator.
	Motor needs to be replaced.	Take sprayer to Graco/Magnum authorized retailer, distributor, or service center.

17H211, 17H214 Stand Sprayers

17H211, 17H214 Stand Sprayers

Ref.	Torque			
\triangle	140-160 in-lb (16 - 18 N•m)			
2	30-35 in-lb (3.5 - 4.0 N•m)			
3	110-120 in-lb (12 - 14 N•m)			



17H211, 17H214 Stand Sprayers

17H211, 17H214 Stand Sprayers Parts List

I / F	1211, 1	17 0214 Stand 3	spray	ers	Parts	LISI	
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1*		KIT, motor includes 1a,		25	116139	GRIP, handle	1
		22		26	17J883	TUBE, suction,	1
	17F756	120V, Model 17H211	1			assembly includes 44,	
	17F758	230V, Model 17H214	1	27	17J025	<i>46, 47, 48, 49, 50,</i> LABEL, front	1
1a		KIT, fan		30	170020	HOSE, cpld, 1/4 in. x	'
	287770	120V, Model 17H211	1			50 ft	
	16X980	230V, Model 17H214	1		240794	Model 17H211	1
2	17J863	KIT, gear and yoke	1		247340	Model 17H214	1
_		includes 5		31		GUN, spray, SG3	
3		CORD, power			288430	Model 17H211	1
	17J173	120V, Model 17H211	1		17J910	Model 17H214	1
	17L301	230V, Model 17H214	1	43	122667	SCREW, drill, HWH	1
5	17J864	KIT, yoke	1	44	17J884	TUBE, drain <i>includes</i>	1
6	117493	SCREW, mach, hwhd	1	<i>1</i> E	150000	46, 48 CUP, suction/drain	1
7	17J875	PUMP, displacement	1	45 46	15G838 244035	DEFELCTOR, barbed	1
8	17J865	SHIELD, motor	1	47	276897	STRAINER, 7/8-14	1
0	110444	includes 9, 56	0	48	404989	STRAP, tie	i
9	118444	SCREW, mach, hwhd 10-24 x 0.5 in.	3	49	115099	WASHER, hose	1
10	17J866	KIT, cover, front	1	50	117559	O-ring	2
10	170000	includes 9, 10a, 10b,		56▲		LABEL, warning	
		10c,12			17J027	Model 17H211	1
10a	17F233	COVER, pump,	1		17K017	Model 17H214	1
		locking		57▲		CARD, medical alert	
10b	17F262	COVER, wire	1		222385	(not shown) EN, ES, FR	1
10c	128551	CABLE, PC, jumper	1		17A134	EN, ZH, KO	i
12	115478	SCREW, mach, Torx,	4	67	242001	CORDSET, EU Model	
		pan hd				17H214	
13	15X737	SWITCH, bracket	1	68	195551	RETAINER, plug	1
15		KIT, control includes			0.4000=	Model 17H214	
	47 1007	15a, 16		69	242005	CORDSET, AU Model 17H214	1
	17J867	120V, Model 17H211	1	72	17J026	LABEL, side, GX 19	1
4-5	17J885	230V, Model 17H214	1	12	170020	LADLL, Side, GA 19	'
15a	119276	FUSE, 12.5A slow	1	*For	Motor Bru	sh Kit order 17U193.	
	129882	blow, 110V/120V FUSE, 6.3A slow blow,	1			t Danger and Warning la	bels.
	123002	230V	I	tag	js, and car	rds are available at no co	ost.
16	117501	SCREW, plastite	1				
17	118899	SWITCH, rocker	1				
18	115498	SCREW, mach, slot,	1				
	110100	hex whd	•				
19	17G329	PLATE, motor, mount	1				
20	15E823	FRAME, standmount	1				
22	260212	SCREW, hwh, thread	4				
		forming					

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4

CAP, leg

HANDLE, sprayer

23

24

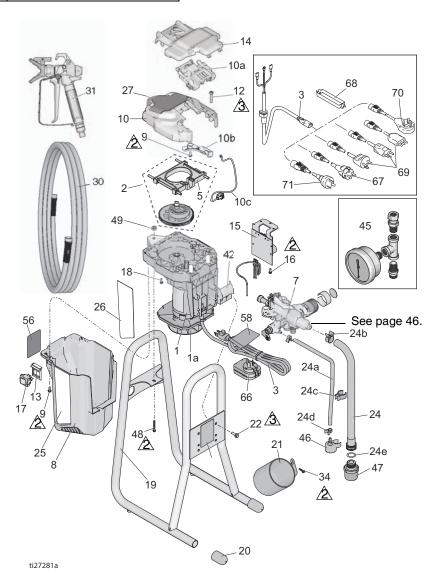
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24Y680, 17G183, 17H218, 17H219, 17H221

24Y680, 17G183, 17H218, 17H219, 17H221 DI Stand Sprayers

Ref.	Torque			
2	30-35 in-lb (3.5 - 4.0 N•m)			
<u>/3</u>	110-120 in-lb (12 - 14 N•m)			



24Y680, 17G183, 17H218, 17H219, 17H221

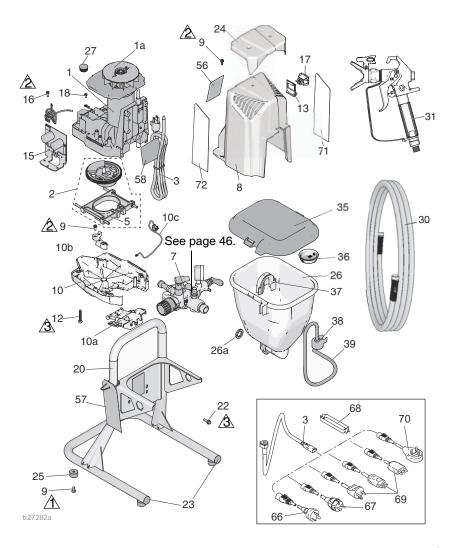
24Y680, 17G183, 17H218, 17H219, 17H221 DI Stand Sprayers Parts List

•	Dest	Description	~	Rof	Part	Description	Qty.
	Part	Description	Qty.			•	
1*		KIT, motor includes 1a, 22		20	15G857	CAP, leg	2
	17K684	120V, Model 24Y680	1	21	15G838	CUP, suction/drain	1
		(Series A)		22	128795	SCREW, hwh, thread	4
	17F757	1210V, Model 24Y680	1	0.4	170101	forming	
		(Series B)		24	17D161	TUBE, suction, assembly includes 24a-24e, 46, 47	1
	17L083	230V, Models 17G183,	1	24a	195108	TUBE, drain	1
		17H218, 17H219, 17H221 (Series A)		24b	116295	CLAMP, tube	1
	17F758	230V, Models 17G183,	1	24c	195400	CLIP, tube	1
	171 750	17H218, 17H219, 17H221	'	24d	115489	CLAMP, drain tube	2
		(Series B)		24e	115099	WASHER, hose	1
1a	16X980	KIT. fan	1	25	17J029	LABEL, right	1
2	17J869	KIT, gear and yoke includes	1	26	17J029	LABEL, left	1
_		5	•	27	17J030 17J028	LABEL, front	1
3		CORD, power		30	247340	HOSE, cpld, 1/4 in. x 50 ft	1
	17J173	120V, Model 24Y680	1	31	247340	GUN, spray	'
	17J175	230V, Model 17G183	1	31	17J910	Models 24Y680, 17G183,	1
	17J405	230V, Model 17H219,	1		173910	17H218, 17H221	'
		17H221			16X214	Model 17H219	1
	17L301	230V, Model 17H218	1	34	122667	SCREW, drill, HWH	i
5	17J864	KIT, yoke	1	41	17J444	STRAP, carry	i
7	17J908	PUMP, displacement	1	42	17J277	TRAY, drip	i
8		SHIELD, motor includes 9,		45	245856	KIT, gauge, pressure	1
		56		45	243030	Models 17G183, 17H218	
	17K688	Model 24Y680, 17H219,	1	46	244035	DEFLECTOR, barbed	1
		17H221 (Series A)		47	288716	STRAINER	i
	17J865	Model 24Y680, 17H219,	1	48	120736	SCREW, hex, flange	1
		17H221 (Series B)		49	102040	NUT, lock, hex	i
	17L101	Models 17G183, 17H218	1	56▲		LABEL, warning	•
	47.1007	(Series A)		00_	17K018	Models 24Y680, 17H221	1
	17J887	Models 17G183, 17H218	1		16G596	Models 17G183, 17H218	i
0	110444	(Series B)	3		17K016	Model 17H219	1
9	118444	SCREW, mach, hwhd 10-24 x 0.5 in.	3	57▲		CARD, medical alert (not	•
10	17J866	KIT, cover, frt <i>includes 9</i> ,	1	o, _		shown)	
10	173000	10a, 10b, 10c, 12			222385	EN, ES, FR	1
10a	17F233	COVER, pump, locking	1		17A134	EN, ZH, KO	1
10b	17F262	COVER, wire	i	58▲		LABEL, warning cord	
10c	128551	CABLE, PC, jumper	1		17K020	Models 24Y680, 17H221	1
12	115478	SCREW, mach, Torx, pan hd			15H087	Model 17H219	1
13	15X737	SWITCH, bracket	1	67	242001	CORDSET, EU Model	1
14	17J618	SHIELD, paint	i	٠.		17H218, 17H221, 17H219	•
15	173010	KIT, control <i>includes 15a</i> , 16		68	195551	RETAINER, plug Model	1
13	17J867	120V, Model 24Y680	1			17H218, 17H221, 17H219	
	17J885	230V, Models 17G183,	i	69	287121	CORDSET, Italy/	1
	170005	17H218, 17H219, 17H221	'			Denmark/Sweden Model	
15a	119276	FUSE, 12.5A slow blow,	1			17H218	
ıou	110270	110V/120V	•	70	17J242	CORDSET, UK Model	1
	129882	FUSE, 6.3A, slow blow,	1			17H218	
	120002	230V	•	71	242005	CORDSET, AU, Model	1
16	117501	SCREW, plastite	1			17H221, 17H219	
17	118899	SWITCH, rocker	1	± -		1 120 1 4-1110	
18	115498	SCREW, mach, slot, hex	1			sh Kit order 17U193.	
-		whd		▲Re	epiacemen	t Danger and Warning labels,	tags,
19	17F940	FRAME, direct immersion	1	an	u carus ar	e available at no cost.	

17F924, 17G184, 17H222, 17H223 Hopper

17F924, 17G184, 17H222, 17H223 Hopper Sprayers

Ref.	Torque				
1	15-20 in-lb (1.5 - 2 N•m)				
2	30-35 in-lb (3.5 - 4.0 N•m)				
3	110-120 in-lb (12 - 14 N•m)				



17F924, 17G184, 17H222, 17H223 Hopper

17F924, 17G184, 17H222, 17H223 Hopper Sprayers Parts List

		· -					
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1*		KIT, motor includes 1a,	,-	35	17H417	LID, hopper	1
•		22		36	112133	SCREEN, hopper	1
	17F757	120V, Model 17F924	1	37	17H419	CLIP, drain hose	1
	17F758	230V, Models 17G184,	i	38	244035	DEFLECTOR, barbed	1
	171 730	17H222, 17H223	'	39	17K336	TUBE, drain <i>includes</i>	- 1
1a	16X980	KIT, fan	1			<i>37, 38</i>	-
2	17J863	KIT, gear and yoke	i	56▲		LABEL, warning	
_	170000	includes 5	'		17J912	Model 17F924	1
3		CORD, power			16G596		1
3	17J173	Model 17F924	1			17H222	-
	17J175	Model 171 324 Model 17G184	i		17K016	Model 17H223	1
	17L301	Model 17H222, 17H223		57▲		CARD, medical alert	-
5	17L361	KIT, yoke	' i	· · -	•	(not shown)	
7	17J909	PUMP, displacement	i		222385	EN, ES, FR	1
8	17J887	SHIELD, motor	i		17A134	EN, ZH, KO	1
O	173007	includes 9, 56	'	58▲		LABEL, warning, cord	-
9	118444	SCREW, mach, hwhd	7	~~ _	15H085	Model 17F924	1
9	110444	10-24 x 0.5 in.	,		15H087	Model 17H223	- 1
10	17J866	KIT, cover, front	1	66	242005	CORDSET, AU Model	1
10	170000	includes 9, 10a, 10b,				17H223	-
		10c. 12		67	242001	CORDSET, EU Model	1
10a	17F233	COVER, pump, locking	1			17H222 ,17H223	-
	17F262	COVER, wire	i	68	195551	RETAINER, plug Model	1
	128551	CABLE, PC, jumper	i			17H222, 17H223	-
12	115478	SCREW, mach, Torx,	4	69	287121	CORDSET, Italy/	1
12	113470	pan hd	7			Denmark/Sweden	-
13	15X737	SWITCH, bracket	1			Model 17H222	
15	13/13/	KIT, control <i>includes</i>	'	70	17J242	CORDSET, UK Model	1
13		15a, 16		. •		17H222	-
	17J867	120V, Model 17F924	1	71		LABEL, left side	
	17J885	230V, Models 17G184,	i		17F947	Models 17F924,	1
	170000	17H222, 17H223				17H223	
152	119276	FUSE, 12.5A slow blow,	1		17J041	Models 17G184,	1
ıσα	113270	110V/120V				17H222	
	129882	FUSE, 6.3A, slow blow,	1	72		LABEL, right side	
	123002	230V			17F946	Models 17F924,	1
16	117501	SCREW, plastite	1			17H223	
17	118899	SWITCH, rocker	i		17J039	Models 17G184,	1
18	115498	SCREW, mach, slot,	i			17H222	
10	110430	hex whd	'				
20	17H426	FRAME, hopper	1	*For	Motor Br	ush Kit order 17U193.	
22	128795	SCREW, hwh, thread	4			nt Danger and Warning la	bels.
	120733	forming	7			rds are available at no c	
23	120151	RETAINER, caplug	2		,		
24	17H593	COVER, shroud	1				
25	17K640	DAMPENER, feet	4				
26	17J244	ASSEMBLY, hopper	i				
_5	110277	includes 26a, 35	'				
26a	115099	WASHER, hose	1				
27 27	17J819	PLUG	i				
30	214698	HOSE, cpld, 3/16 in. x	i				
00	000	0E#	•				

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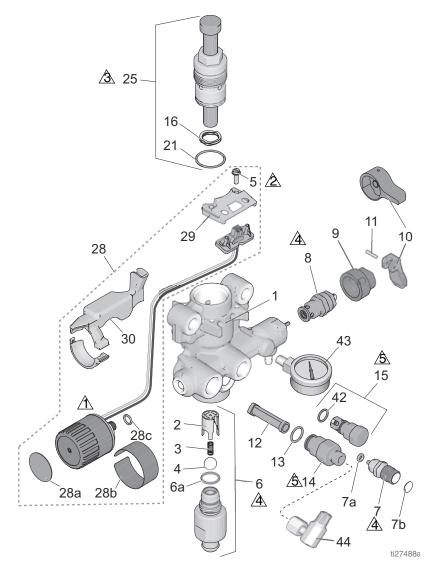
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17J261 GUN, spray, FTX

Pump Assembly

Pump Assembly

Ref.	Torque	Ref.	Torque
1	140-160 in-lb (16 - 18 N•m)	<u> </u>	220-250 in-lb (25 - 28 N•m)
2	270-330 in-lb (30 - 37 N•m)	<u>\$</u>	320-380 in-lb (36 - 43 N•m)
3	30-35 ft-lb (40 - 48 N•m)		



Pump Assembly

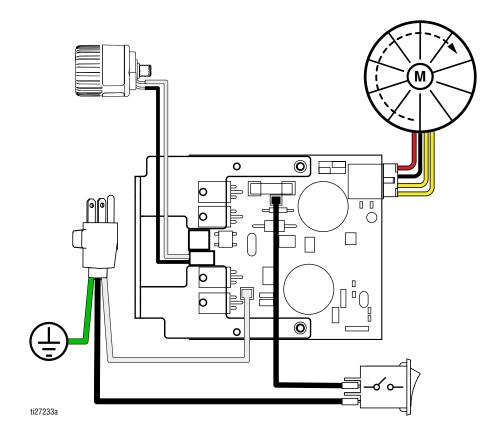
Pump Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	17G447	HOUSING, pump	,-	14	24Y327	KIT, repair outlet	1
-	17H605	Models 17F924,	1			includes 12, 13	
		17G184, 17H222,		15	17J880	KIT, outlet valve repair	1
		17H223		40	400000	includes 42	_
2	17D364	GUIDE, ball	1	16	128323	SPRING, valve	1
3	128336	SPRING, compression	1	21	16D531	PACKING, O-ring	1
4	105445	BALL, 0.5 in.	1	25	24Y472	KIT, repair, piston pump	1
5	117501	SCREW, mach, slot	2	28		includes 16, 21 KIT, pressure control	
_		HWH		20		includes 5, 28a, 28b,	
6		KIT, inlet housing				28c, 29, 30	
	17J876	includes 2, 3, 4, 6a	4		17J881	Models 17H211,	1
	173070	Models 24Y680, 17G183, 17H218,	1			17H214	
		17G163, 17H216, 17H219, 17H221			17J927	Models 24Y680,	1
	17J877	Models 17H211,	1			17F924, 17G183,	
	170077	17H214				17G184, 17H218,	
	17J924	Models 17F924,	1			17H219, 17H221,	
		17G184, 17H222,	•			17H222, 17H223	
		17H223			15A464	LABEL, control	1
6a	124582	PACKING, O-ring	1		17P739	LABEL, control	1
7	17J878	KIT, PushPrime	1	28c	106555	O-ring	1
_	100000	includes 7a, 7b		29	17F227	BRAČKET, electrical connector	1
7a	16P303	PACKING, O-ring	1	30		KIT, shield, wire	
7b	17K420	LABEL, PushPrime	1	50	17F229	Models 17H211,	1
8		KIT, valve, drain,				17H214	•
	235014	<i>includes 9, 10, 11</i> Models 17H211,	1		17J882	Models 24Y680,	1
	200014	17H214	ı			17F924, 17G183,	
	17J925	Models 24Y680,	1			17G184, 17H218,	
	.,0020	17F924, 17G183,	•			17H219, 17H221,	
		17G184, 17H218,				17H222, 17H223	
		17H219, 17H221,		42	122486	PACKING, O-ring	1
		17H222, 17H223		43	16X147	GAUGE, pressure	1
9		BASE, valve				Models 17F924,	
	224807	Models 17H211,	1			17G184, 17H222, 17H223	
		17H214		44	155541	FITTING, swivel	1
10		HANDLE, valve, drain		77	1000+1	Models 17F924,	'
	187625	Models 17H211,	1			17G184, 17H222,	
		17H214				17H223	
	15Y185	Models 24Y680,	1				
		17F924, 17G183,					
		17G184, 17H218,					
		17H219, 17H221,					
		17H222, 17H223					
4.4	111600	includes 11	4				
11	111600	PIN, grooved Models	1				
12	288747	17H211, 17H214 KIT, filter (Not installed	1				
12	200141	on all models.)	ı				
13	120776	PACKING, O-ring	1				
			•				

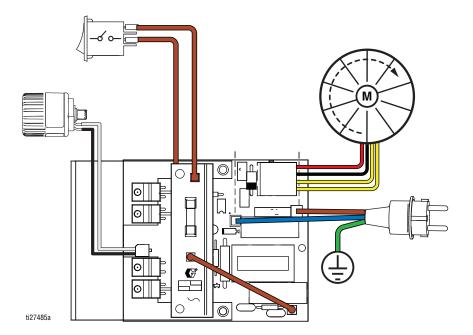
Wiring Diagrams

Wiring Diagrams

110/120V



230V



Technical Specifications

Technical Specifications

GX 19, GX 21, FinishPro GX 19

GX 19, GX 21, FinishPro GX 19						
	US	Metric				
Sprayer						
Maximum fluid working pressure	3000 psi	207 bar, 20.7 MPa				
Maximum Delivery						
GX 19/FinishPro GX 19	0.38 gpm	1.4 lpm				
GX 21	0.47 gpm	1.8 lpm				
Maximum Tip Size						
GX 19/FinishPro GX 19	0.019 in.	0.048 mm				
GX 21	0.021 in.	0.053 mm				
Fluid Outlet npsm	1/4 in.	1/4 in.				
Generator Minimum	350	00 W				
Power Requirements						
GX 19	110–120V, 8 A	/ 220–240V, 5 A				
GX 21	110–120V, 12 A	/ 220–240V, 10 A				
Dimensions						
Height						
Stand	18.4 in.	46.7 cm				
DI Stand	22 in.	55.9 cm				
Hopper	19.6 in.	49.8 cm				
Length						
Stand	16.7 in.	47.5 cm				
DI Stand	18.4 in.	46.7 cm				
Hopper	20.2 in.	51.3 cm				
Width						
Stand	13.5 in.	34.3 cm				
DI Stand	12 in.	30.5 cm				
Hopper	13.5 in.	34.3 cm				
Weight						
Stand	25 lb.	11.3 kg				
DI Stand	29 lb.	13.2 kg				
Hopper	28 lb. 12.1 kg					
Storage temperature range ◆◆	–30° to 160°F	–35° to 71°C				
Operating temperature range 🗸	40° to 115°F	4° to 46°C				
Noise**						
Sound pressure 83 dBa*						

Technical Specifications

GX 19, GX 21, FinishPro GX 19			
	US	Metric	
Sound power	93 dBa*		
Materials of Construction			
Wetted materials on all models	stainless steel, brass, leather, ultra-high molecular weight polyethylene (UHMWPE), carbide, nylon, aluminum, PVC, polypropylene, fluoroelastomer		

Notes

- * Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.
- ** Sound pressure measured 3 feet (1 meter) from equipment. Sound power measured per ISO-9614.
- ♦ When pump is stored with non-freezing fluid. Pump damage will occur if water or latex paint freezes in pump.
- Damage to plastic parts may result if impact occurs in low temperature conditions.
- Changes in paint viscosity at very low or very high temperatures can affect sprayer performance.

Technical Specifications

GX FF

GX FF				
	US	Metric		
Sprayer				
Maximum fluid working pressure	3000 psi	207 bar, 20.7 MPa		
Maximum Delivery	0.38 gpm	1.4 lpm		
Maximum Tip Size	0.019 in.	0.048 mm		
Fluid Outlet npsm	1/4 in.	1/4 in.		
Generator Minimum	1500 W			
Power Requirements	110–120V, 8 A / 220–240V, 5 A, 1Ø			
Dimensions				
Height	19.6 in.	49.8 cm		
Length	20.2 in.	51.3 cm		
Width	13.5 in.	34.3 cm		
Weight	31 lb.	14.1 kg		
Storage temperature range ◆◆	–30° to 160°F	−35° to 71°C		
Operating temperature range 🗸	40° to 115°F	4° to 46°C		
Noise**				
Sound pressure	83 dBa*			
Sound power	93 dBa*			
Materials of Construction				
Wetted materials on all models	stainless steel, brass, leather, ultra-high molecular weight polyethylene (UHMWPE), carbide, nylon, aluminum, PVC, polypropylene, fluoroelastomer			

Notes

- * Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.
- ** Sound pressure measured 3 feet (1 meter) from equipment. Sound power measured per ISO-9614.
- When pump is stored with non-freezing fluid. Pump damage will occur if water or latex paint freezes in pump.
- ❖ Damage to plastic parts may result if impact occurs in low temperature conditions.
- Changes in paint viscosity at very low or very high temperatures can affect sprayer performance.

Graco Standard Warranty

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.

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TO PLACE AN ORDER, contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.

All written and visual data contained in this document reflects the latest product information available at the time of publication.

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Original instructions. This manual contains English. MM 3A3212

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

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Revision E, May 2018