Operation

390[™] Electric Airless Sprayers

310820H

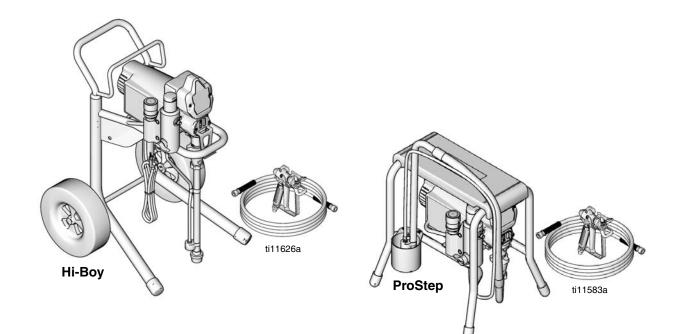
ΕN

- For portable spray applications of architectural paints and coatings -

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



Important Safety Instructions Read all warnings and instructions in this manual. Save these instructions.



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Warning

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. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

Grounding Instructions

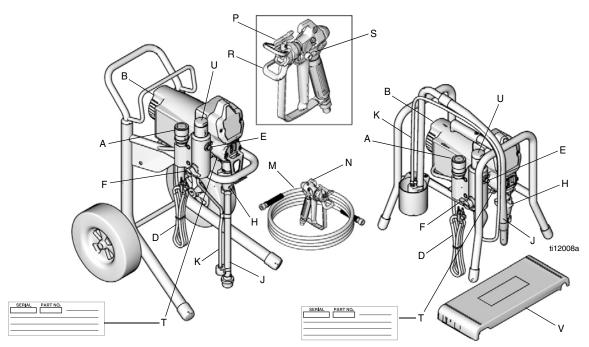
This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into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

 GROUNDING 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 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 3-blade grounding plug and a 3-slot 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.

 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 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. Use Graco replacement parts or accessories that are rated a minimum of 3300 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. Always wear appropriate gloves, eye protection, and a respirator or mask when painting. Do not operate or spray near children. Keep children away from equipment at all times. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times. Stay 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.
	 Misuse of the sprayer platform can cause death or serious injury. Do not exceed platform rating. Make sure sprayer is on firm, level, non-slippery, secure foundation before accessing sprayer platform. Make sure platform has been properly secured to frame before standing on platform. If you are unable to step up to sprayer platform, use a stable intermediate stepping device for stepping up to sprayer platform or stepping down from sprayer platform. Keep both feet squarely and firmly on platform. Do not allow sprayer frame to come in contact with live electrical wires. Do not over reach while on sprayer platform. Do not position sprayer behind any doors when on sprayer platform.
<u>/</u> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 ELECTRIC SHOCK HAZARD Improper grounding, setup, or usage of the system can cause electric shock. Turn off and disconnect power cord before servicing equipment. Use only grounded electrical outlets. Use only 3-wire extension cords. Ensure ground prongs are intact on sprayer and extension cords. Do not expose to rain. Store indoors.
	PRESSURIZED ALUMINUM PARTS HAZARD Do not use 1, 1, 1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.
E.	BURN HAZARD Equipment surfaces can become very hot during operation. To avoid severe burns, do not touch hot equipment. Wait until equipment has cooled completely.
17	 MOVING PARTS HAZARD Moving parts can pinch 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 in this manual. Disconnect power or air supply.
*	 TOXIC FLUID OR FUMES HAZARD Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed. Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
	 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, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: Protective eye wear Clothing and respirator as recommended by the fluid and solvent manufacturer Gloves Hearing protection

Component Identification

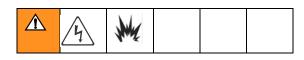


	English
A	Pressure Control
В	ON/OFF switch
D	Power Cord
E	Fluid Outlet
F	Prime Valve
Н	Pump
J	Suction Hose
К	Drain Hose
М	Fluid Hose
Ν	Gun
Р	Тір
R	Guard
S	Trigger Safety Lock
Т	Model/Serial Tag
U	Filter
V	Platform

Pressure Relief Procedure

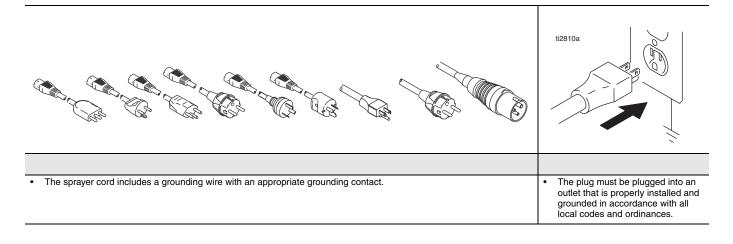
English Follow this Pressure Relief Procedure and before cleaning, checking, servicin	whenever you stop spraying		
		15304a	
1 Turn pressure control to lowest pressure.	2 Hold gun against side of grounded metal flushing pail. Trigger gun to relieve pressure.	3 Turn prime valve down. If you suspect spray tip or hose is clogged or pressure is not fully relieved, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure. Then loosen completely.	4 Turn power switch OFF, if unit is being shut down or will be left unattended.

Grounding

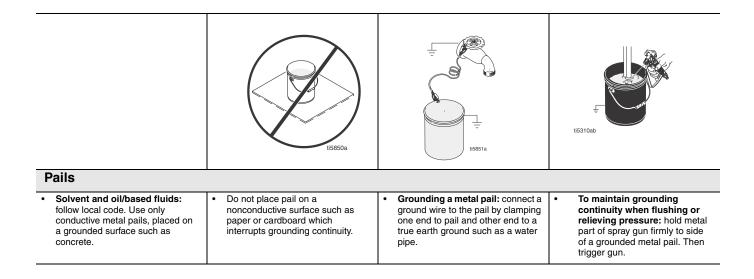


English

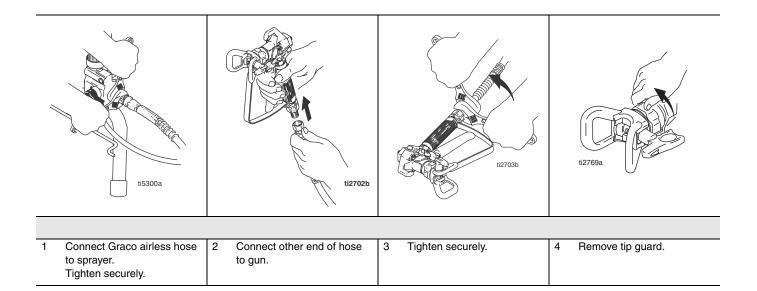
The sprayer must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.



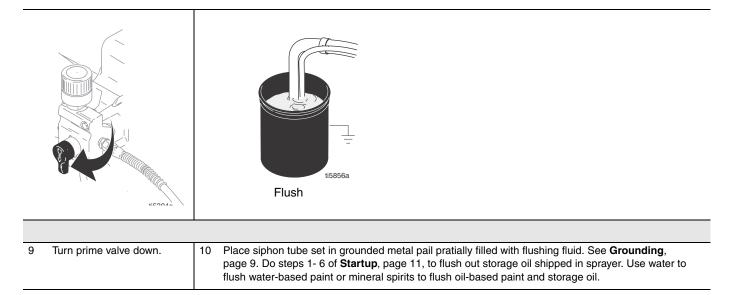
H427a		Ground	
	Power Requirements	Extension Cords	
• Do not modify plug! If it will not fit in outlet, have grounded outlet installed by a qualified electrician. Do not use an adapter.	 100-120V units require 100-120 VAC, 50/60 Hz, 11A, 1 phase. 230V units require 230 VAC, 50/60 HZ, 7.5A, 1 phase. 	 Use an extension cord with an undamaged ground contact. 	 If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm²) minimum.



Setup



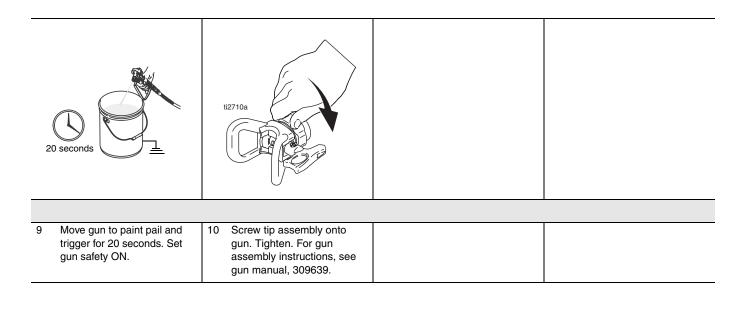
	ti5301a	15735b	ON OFF	ti2810a
5	Check inlet strainer for clogs and debris.	 Fill throat packing nut with TSL to prevent premature packing wear. Do this each time you spray. 	7 Turn power OFF.	8 Plug power supply cord into a properly grounded electrical outlet.

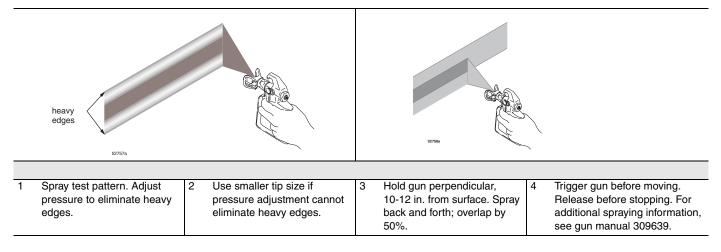


Startup

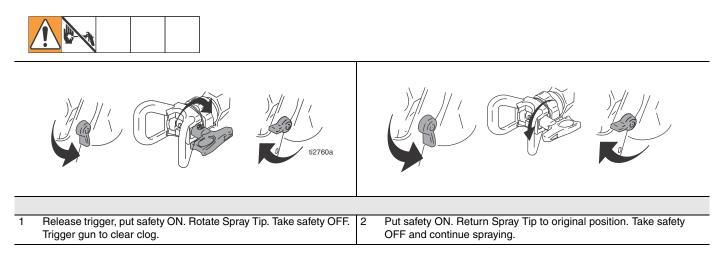
		ON OFF	1/4 turn + ^{15 sec.}	ti5308a
1	Turn pressure control to lowest pressure.	2 Turn power ON .	3 Increase pressure 1/4 turn to start motor. Allow fluid to circulate through drain tube for 15 seconds.	4 Turn prime valve horizontal.Take spray gun trigger safety OFF.

	ti5310ab					
5	Hold gun against grounded metal flushing pail. Trigger gun and flush 1 minute.	 Inspect for leaks. Do not stop leaks with hand or a rag! If leaks occur, perform Pressure Relief, page 7. Tighten fittings. 	7	Place siphon tube in paint pail.	8	Trigger gun again into flushing pail until paint appears.





Clearing Clogs



Cleanup

	MPa/bar/PSI	ti2769a	ti5847a		Flush 22568 Waste
1	Relieve Pressure, page 7.	2 Remove guard and Spray Tip. For additional information, see gun manual 309639.	3 Remove siphon tube set from paint. Wipe excess paint off outside of tubes.	4	Place siphon tube in flushing fluid. Use water for water base paint and mineral spirits for oil base paint. Place drain tube in waste pail.

	ISSOB		Paint		Waste		15304
5	Turn prime valve horizontal.	6	Hold gun against paint pail. Take trigger safety OFF. Trigger gun and increase pressure until the pump runs steady and flushing fluid appears	7	Stop triggering gun. Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system.	8	While continuing to trigger gun, turn prime valve down. Then, release gun trigger. Allow flushing fluid to circulate until fluid coming out of drain tube is clear.
	Flushing Fluid		Flush	-	ON OFF U5309a		
9	Raise siphon tube above flushing fluid.)	10 Close drain valve. Trigger gu into flushing pail to purge flui from hose.		11 Turn pressure control kno all the way down and pow switch OFF. Unplug spray	er	12 If you have a filter installed on your sprayer, remove filter. Clean and inspect. Install filter.

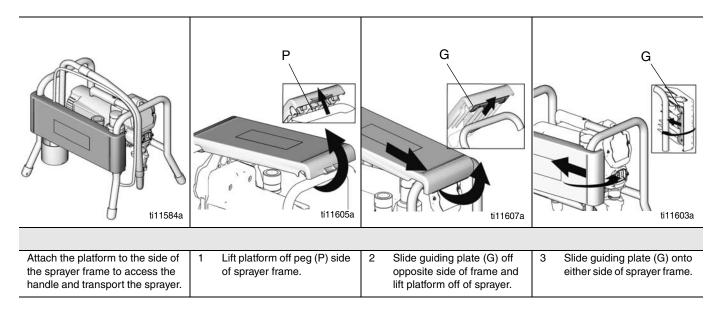
		riterese	СС ⁴ С С 1/2776а	
13	Remove filter from gun if installed. Clean and inspect. Install filter. See gun manual 309639.	14 If flushing with water, flush again with mineral spirits or Pump Armor to leave a protective coating to prevent freezing or corrosion.	15 Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.	

Platform Access Position (826098)

To avoid falling, make sure sprayer is on a firm, level, non-slippery, secure foundation before standing on sprayer platform.	To avoid electrocution, do not allow sprayer frame to come in contact with live electrical wires.	To avoid falling, do not over reach while standing on sprayer platform.	If you are unable to step up to sprayer platform, use a stable intermediate stepping device.

til1587a	G ti11586a	H till612a	P P P P P P P P P P P P P P P P P P P
The sprayer platform is reversible, and can be installed facing either direction. To install the platform, perform the following steps:	1 Slide platform guiding plate (G) into sprayer frame.	2 Align groove underneath platform with sprayer handle (H).	 Press other end of platform down onto opposite end of sprayer frame. Make sure frame peg (P) is aligned with slot underneath platform. CAUTION: If the frame peg (P) is not aligned with the slot underneath platform, the platform will not be fully resting on the sprayer frame and will be unsafe to stand on.

Platform Transport Position (826098)



	ti11604a	ti11584a ti11606a	
4	Align clips on opposite side of platform with sprayer frame and push until it snaps onto frame.	NOTE: Platform is reversible and can be attached to either side of the sprayer frame.	

Technical Data

Power requirements	230V AC, 50/60 hz, 7.5A, 1 phase 3000 w minimum 3300 psi (22.7 MPa, 227 bar) 680 (180) 0.47 (1.8) 0.021 1/4 in. 22.0 in. (55.9 cm) 20.5 in. (52.1 cm) 38.8 in. (98.6 cm) 58 lbs (25.9 kg) 20.0 in. (50.8 cm) 15.5 in. (39.4 cm)
Height	19.25 in. (48.9 cm)
Weight	
Wetted parts	zinc and nickel-plated carbon steel, nylon, stainless steel, PTFE, Acetal, leather, UHMWPE, aluminum, tungsten carbide
Noise level*	
Sound power (IS0 3744)	100dBa*
Sound pressure (ISO 3744)	90 dBa*

*Measured 3 feet (1 meter) from equipment.

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.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

Graco Information

For the latest information about Graco products, visit www.graco.com.

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. Graco reserves the right to make changes at any time without notice.

For patent information, see www.graco.com/patents.

Original instructions. This manual contains English, MM 310820

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