

### GH™130/200/230/300 Hydraulic Sprayers

EN

*For professional use only.*

*Not approved for use in explosive atmosphere or hazardous locations.*

*For portable airless spraying of architectural paints and coatings.*

3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure

See page 3 for model information, including maximum working pressure and approvals.



#### Important Safety Instructions

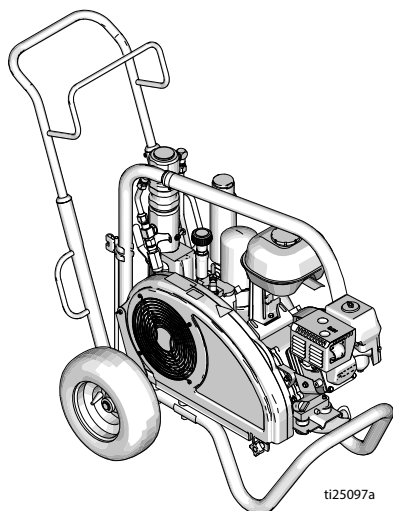
Read all warnings and instructions in this manual and in related manuals.

Be familiar with the controls and the proper usage of the equipment.

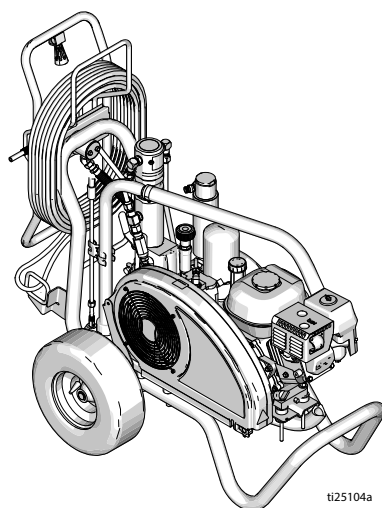
Save these instructions.

#### Related Manuals:

311861	GH130/200 Gun	334654	Pump
311254	GH230/300 Gun	310812	Electric Motor



**Standard Series**



**ProContractor Series**

*Use only genuine Graco replacement parts.*

*The use of non-Graco replacement parts may void warranty.*



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## Models

GH130				
Model:	Standard	120V Motor Kit (Non CSA)		
24W923	✓			
24W924	✓	✓		
GH200				
Model:	Standard	ProContractor	120V Motor Kit (Non CSA)	
24W925	✓			
24W926	✓		✓	
24W927		✓		
24W928		✓	✓	
GH230				
Model:	Standard	ProContractor	120V Motor Kit (Non CSA)	120V ETL/CSA/UL Motor Kit
24W929	✓			
24W930	✓		✓	
24W931	✓			✓
24W932		✓		
24W933		✓	✓	
24W934		✓		✓
GH300				
Model:	Standard	ProContractor		
24W935	✓			
24W936		✓		

## Electric Motor Kit Options

Kit Number	Sprayer Model	Description
288474	GH130	120VAC, 60Hz, 20A, ETL/CSA/UL Approved
288473	GH130	120VAC, 60Hz, 15A
248950	GH200/GH230/GH300*	120VAC, 60Hz, 20A, ETL/CSA/UL Approved
248949	GH200/GH230/GH300*	120 VAC, 60Hz, 15A
24M668	GH200/GH230/GH300*	240VAC, 50Hz, 15A

\*Performance is limited when using electric motor vs gas engine

## OEM Kits

Kit Number	OEM Model	Description
24W297	GH130 OEM	3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure (psi)
24W298	GH200 OEM	3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure (psi)
24W299	GH230/300 OEM	3330 psi (22.8 MPa, 228 bar) Maximum Working Pressure (psi)

## 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.

## Electric Motor Warnings

### 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 in the figure below.

120V US



230V



- 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 (2.5 mm<sup>2</sup>) minimum to carry the current that the product draws.
  - An undersized cord results in a drop in line voltage and loss of power and overheating.



## **WARNING**



### **FIRE AND EXPLOSION HAZARD**

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:

- Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use Graco conductive or grounded high-pressure airless paint sprayer hoses.
- Verify that all containers and collection systems are grounded to prevent static discharge. Do not use pail liners unless they are antistatic 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 flammable or 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 at 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 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.



### **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.
- Wait five minutes after disconnecting power cord before servicing large capacitor units.

# Warnings

## Gas Engine Warnings

### **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:

- Use equipment only in well ventilated area.
- Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See **Grounding** instructions.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are antistatic or conductive.
- **Stop operation immediately** if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.



#### **CARBON MONOXIDE HAZARD**

Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death.

- Do not operate in an enclosed area.



#### **BURN HAZARD**

Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:

- Do not touch hot fluid or equipment.

## Electric Motor/Gas Engine Warnings

**⚠ WARNING****SKIN INJECTION HAZARD**

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

- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
- Use Graco nozzle tips.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the **Pressure Relief Procedure** for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
- 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 3300 psi (22.8 MPa, 228 bar). Use Graco replacement parts or accessories that are rated a minimum of 3300 psi (22.8 MPa, 228 bar).
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.

## **WARNING**



### **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.
- 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.



MPa bar PSI



### **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.



MPa bar PSI

## ⚠ WARNING



### ENTANGLEMENT HAZARD

Rotating parts can cause serious injury.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Do not wear loose clothing, jewelry or long hair while operating equipment.
- 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.



### RECOIL HAZARD

Gun may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.



### 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. Protective equipment includes but is not limited to:

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

### CALIFORNIA PROPOSITION 65

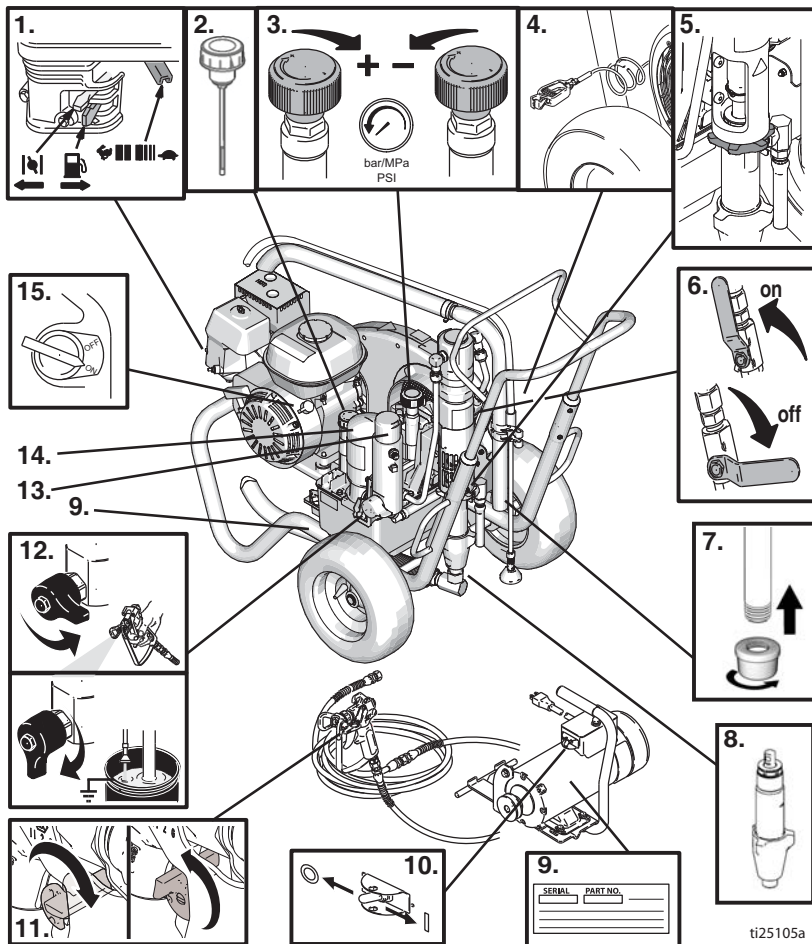
The engine exhaust from this product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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

# Component Identification

## Component Identification

### Standard Models (GH130, GH200, GH230, GH300)



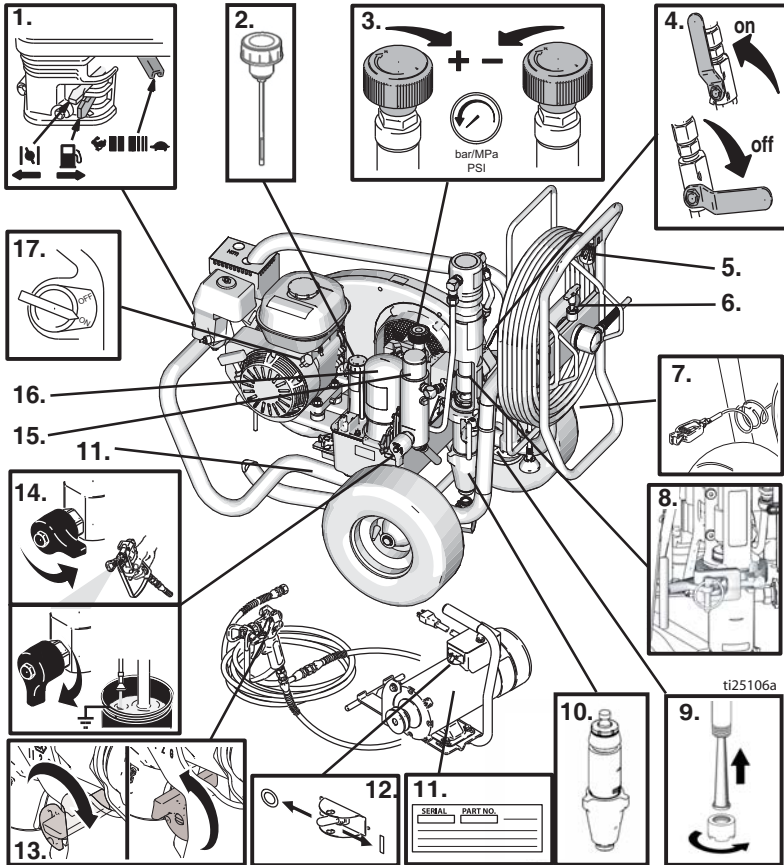
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1	Engine Controls
2	Hydraulic Oil Cap / Dipstick
3	Pressure Control
4	Grounding Clamp
5	Threaded Pump Connection
6	Hydraulic Pump Valve
7	Inlet Strainer

8	Displacement Pump
9	Serial Number Tag (2 places)
10	Electric Motor On/Off Switch
11	Gun Trigger Lock
12	Prime/Drain Valve
13	Easy Out™ Paint Filter
14	Hydraulic Oil Filter
15	Engine On/Off Switch

## Component Identification

### ProContractor Models (GH200, GH230, GH300)

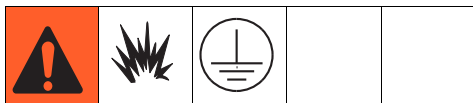


1	Engine Controls
2	Hydraulic Oil Cap / Dipstick
3	Pressure Control
4	Hydraulic Pump Valve
5	Hose Reel Handle
6	Hose Reel Lock
7	Grounding Clamp
8	ProConnect

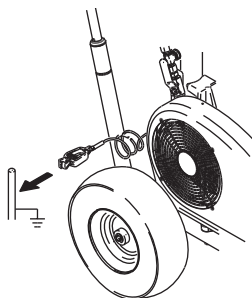
9	Inlet Strainer
10	Displacement Pump
11	Serial Number Tag (2 places)
12	Electric Motor On/Off Switch
13	Gun Trigger Lock
14	Prime/Drain Valve
15	Easy Out™ Paint Filter
16	Hydraulic Oil Filter
17	Engine On/Off Switch

# Component Identification

## Grounding Procedure for Gas Engine



The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.



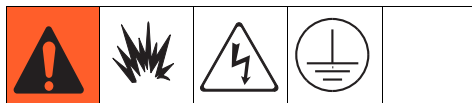
ti5244a

**To ground sprayer:** Attach sprayer grounding clamp to earth ground.

**Air and fluid hoses:** Use only electrically conductive hoses with a maximum of 500ft. (150 m) combined hose length to ensure grounding continuity. Check electrical resistance of hoses. If total resistance to ground exceeds 29 megaohms, replace hose immediately.

**Spray gun:** Ground through connection to a properly grounded fluid hose and pump.

## Grounding Procedure for Electric Motor



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.

If using the electric motor, plug must be plugged into an actual outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.

## Power Requirements

- 110-120V units require 100-120 VAC, 50/60 Hz, 15A, 1 phase.
- 230V units require 230 VAC, 50/60 Hz, 16A, 1 phase

## Extension Cords

Use an extension cord with an undamaged ground contact. If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm<sup>2</sup>) minimum.

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



# Pressure Relief Procedure

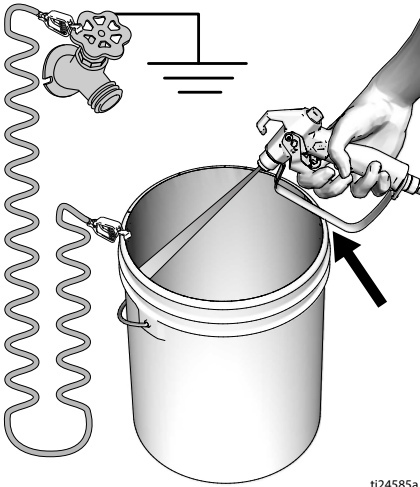
## Grounding of Pails

**Solvent pails used when flushing:** Follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the 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.



## Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.

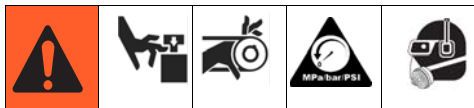


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

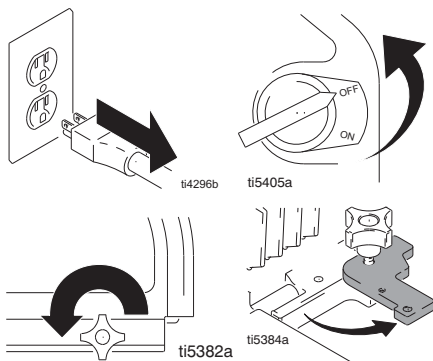
1. Engage trigger lock.
2. Turn gas engine or electric motor ON/OFF switch to OFF. Unplug power cord to electric motor.
3. Move pump valve to OFF and turn pressure control knob fully counterclockwise to lowest setting.
4. Disengage trigger lock. Hold metal part of gun firmly to side of grounded metal pail, and trigger gun to relieve pressure.
5. Engage gun trigger lock.
6. Turn prime valve down to DRAIN position. Leave prime valve down until ready to spray again.
7. If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved:
  - a. VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually.
  - b. Loosen nut or coupling completely.
  - c. Clear hose or tip obstruction.

## Setup

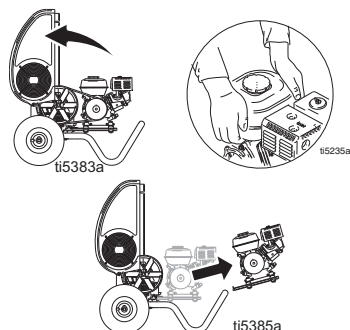
### Change Engine or Motor



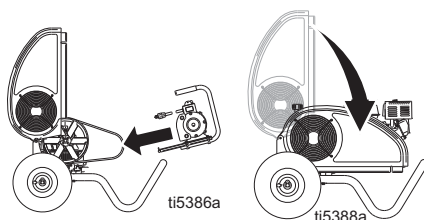
- 1 Turn motor OFF and unplug or turn engine switch OFF. Loosen belt guard knob and motor clamp. Perform **Pressure Relief Procedure**, page 13.



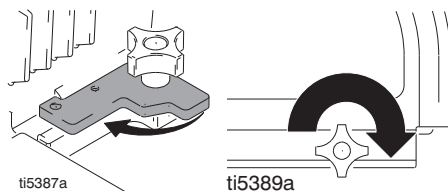
- 2 Lift belt guard. Remove belt. Tilt engine/motor and remove engine/motor.



- 3 Tilt engine/motor. Install engine/motor. Install belt. Lower belt guard.

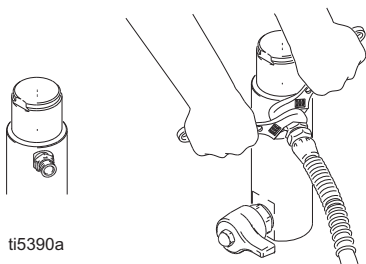


- 4 Swivel motor clamp. Tighten motor clamp and belt guard knob.

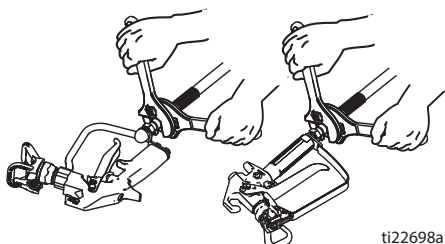


## Complete Setup

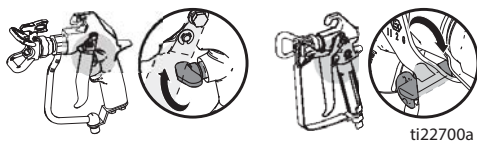
1. **All sprayers except ProContractor:** Connect appropriate Graco high-pressure hose to sprayer.



2. Install hose to spray gun and tighten securely.



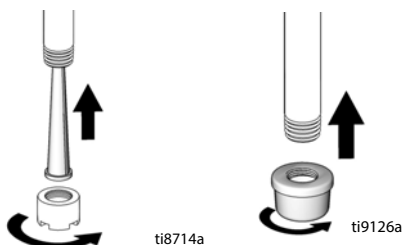
3. Engage gun trigger lock.



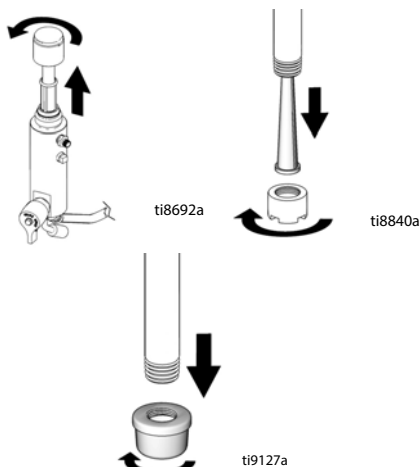
4. Remove Tip Guard.

5. **ProContractor Series:** Install inlet strainer into bottom of suction tube, place inlet nut over end and hand tighten securely.

**Standard Series:** Screw inlet strainer to bottom of suction hose and hand tighten securely.

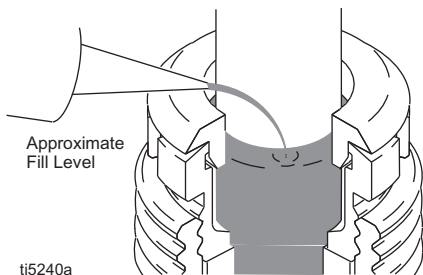


6. When spraying texture, remove inlet strainer and filter bowl screen.

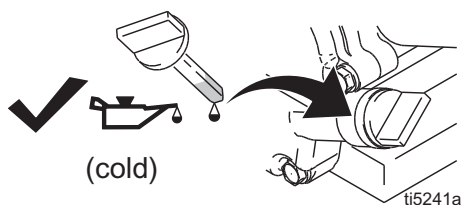


# Setup

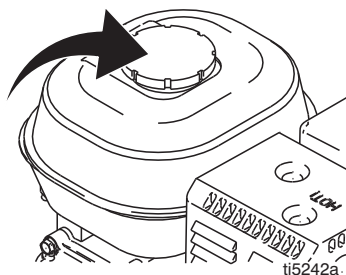
7. Fill throat packing nut with TSL to prevent premature packing wear. Do this each time you spray.



8. Check engine oil level.



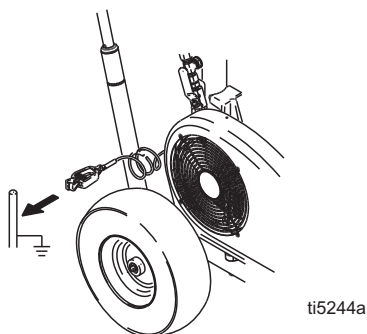
9. Fill fuel tank.



10. Check hydraulic oil level. Add Graco Hydraulic Oil, ISO Grade 46, 169236 (5 gallon/18.9 liter) or 207428 (1 gallon/3.8 liter). Hydraulic tank capacity is 1.25 gallon (4.75 liters).



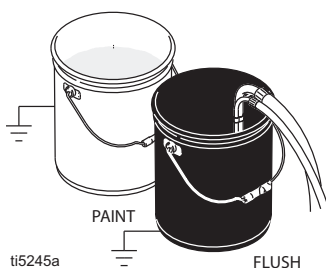
11. Attach sprayer grounding clamp to earth ground.



# Startup



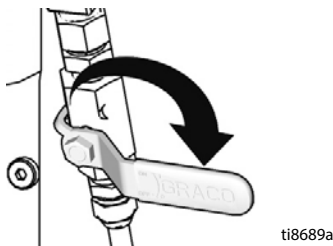
1. Place suction tube and drain tube in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to earth ground.



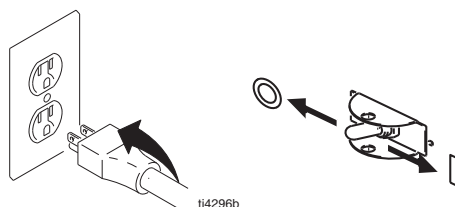
2. Turn prime valve down to DRAIN position. Turn pressure control counterclockwise to lowest pressure.



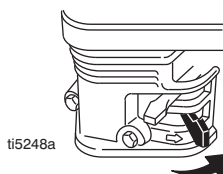
3. Set hydraulic pump valve OFF.



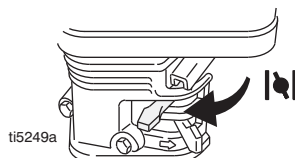
4. If using electric motor, plug cord into outlet and turn switch to ON.



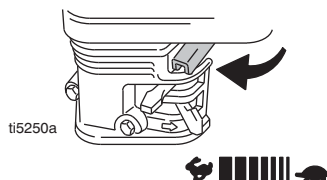
5. If using gas engine, start engine.
  - a. Move fuel valve to open.



- b. Move choke to closed.

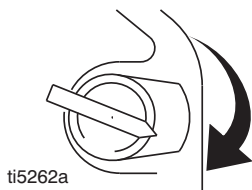


- c. Set throttle to fast.

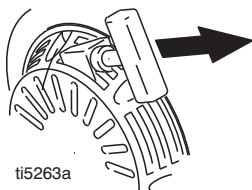


# Startup

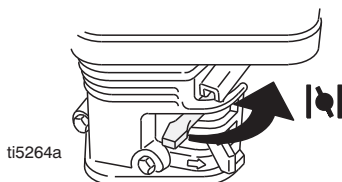
- d. Set engine switch to ON.



- e. Pull starter rope.



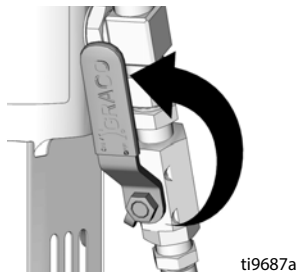
- f. After engine starts, move choke to open.



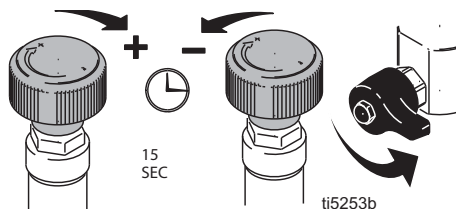
- g. Set throttle to desired setting.



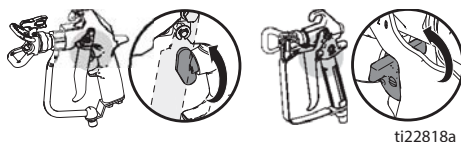
- h. Set hydraulic pump valve ON (hydraulic motor is now active).



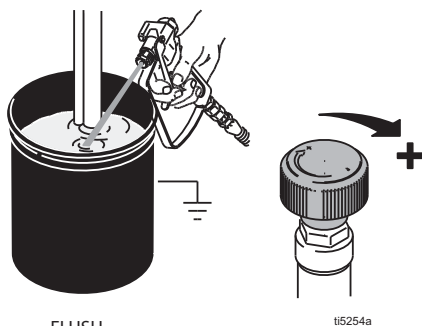
6. Increase pressure enough to start hydraulic motor stroking and allow fluid to circulate for 15 seconds; turn pressure down, turn prime valve horizontal.



7. Disengage spray gun trigger lock.

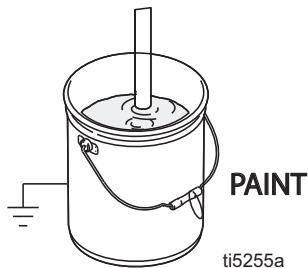


8. Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly. Release trigger and allow sprayer to build pressure. Engage trigger lock.

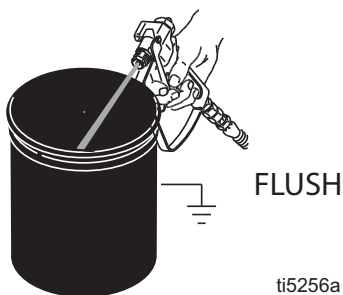


<p>High-pressure spray is able to inject toxins into the body and cause serious bodily injury. Do not stop leaks with hand or rag.</p>				

9. Inspect for leaks. If leaks occur, turn sprayer OFF immediately. Perform **Pressure Relief Procedure**, page 13. Tighten leaky fittings. Repeat **Startup** procedure steps 2-8. If no leaks, continue to trigger gun until system is thoroughly flushed.
10. Place siphon tube in paint pail.



11. Trigger gun again into flushing fluid pail until paint appears.

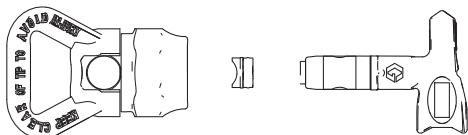


# Startup

## Switch Tip™ and Guard Assembly

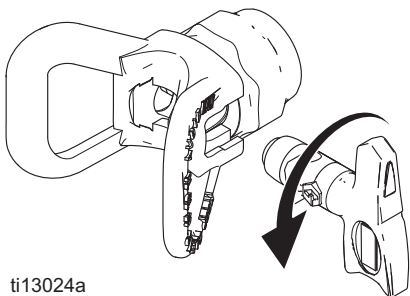


1. Perform **Pressure Relief Procedure**, page 13.
2. Engage gun trigger lock. Insert Switch Tip and OneSeal™.



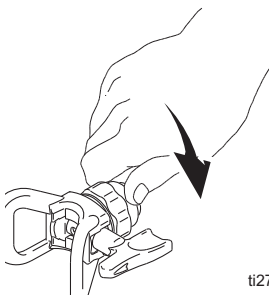
ti13023a

3. Insert Switch Tip and face forward.



ti13024a

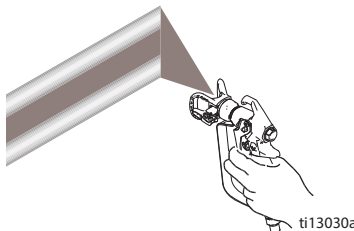
4. Screw assembly onto gun. Tighten.



ti2710a

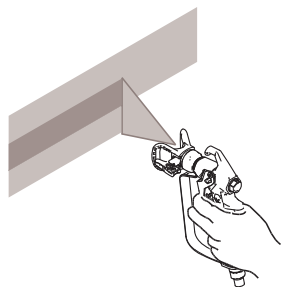
## Spray

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



ti13030a

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



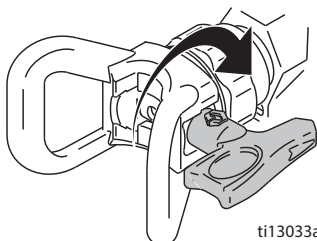
ti13025a



## Clear Tip Clog

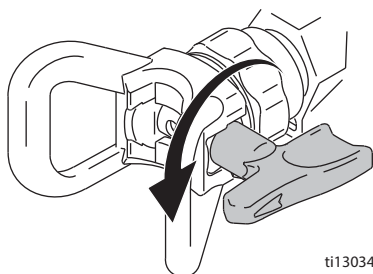


1. Release trigger, engage trigger lock. Rotate Switch Tip. Disengage trigger lock. Trigger gun to clear clog.



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2. Engage trigger lock. Return Switch Tip to original position. Disengage trigger lock and continue spraying.



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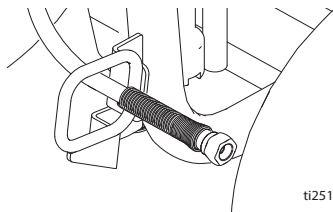
## Hose Reel

### (ProContractor Series only)



To avoid injury, keep your head clear of hose reel while winding up hose.

1. Make sure hose is routed through hose guide.



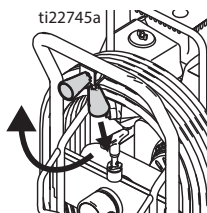
ti25149a

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

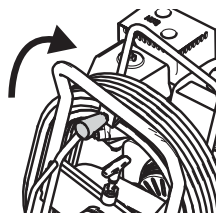


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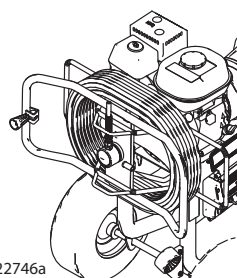
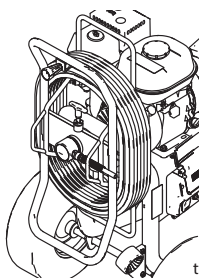
3. Pull reel handle down and turn clockwise to reel in hose.



ti22745a



**NOTE:** The hose reel can be locked into two positions: Usage and Storage.

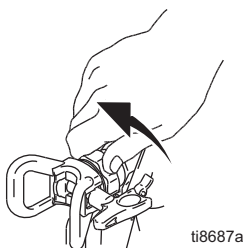


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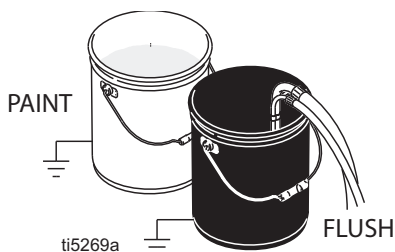
## Clean Up



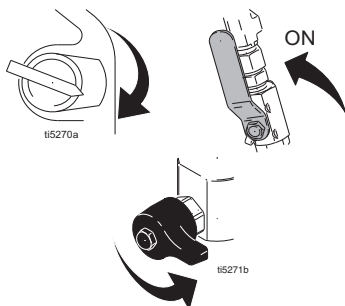
1. Perform **Pressure Relief Procedure**, page 13, steps 1-7.
2. Remove Guard and SwitchTip.



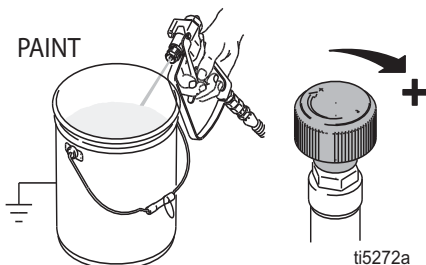
3. Remove siphon tube set from paint and place in flushing fluid. Use water for water-based paint and mineral spirits for oil based paint.



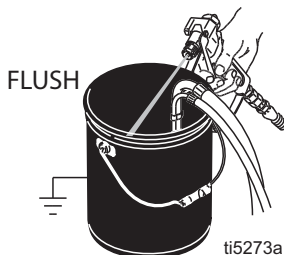
4. Turn engine ON and start engine or plug motor in and turn ON. Turn hydraulic pump valve ON. Turn prime valve to SPRAY position.



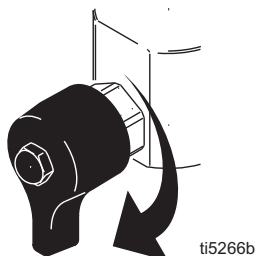
5. Hold gun against pail. Disengage trigger lock. Turn pressure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.



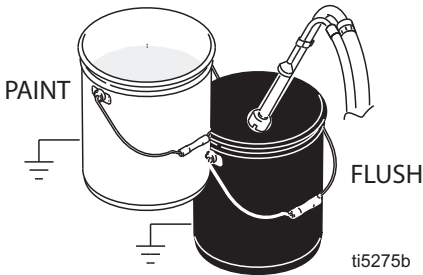
6. Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and engage trigger lock.



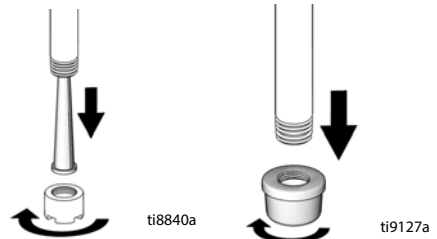
7. While continuing to trigger gun, turn prime valve down. Then release gun trigger. Allow flushing fluid to circulate until fluid comes out of drain tube clear.



8. Raise siphon tube above flushing fluid and run sprayer for 15 to 30 seconds to drain fluid. Turn hydraulic valve OFF. Turn engine OFF or turn electric motor OFF and unplug.

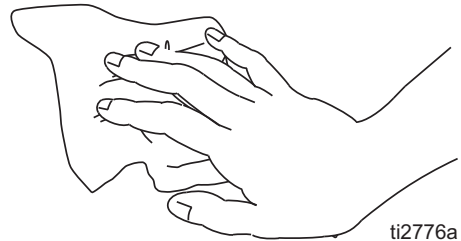
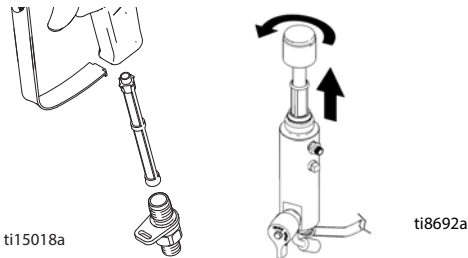


10. Depending on model, either remove nut and inlet strainer screen from bottom of suction tube, or unscrew and remove inlet strainer. Clean and replace strainer screen if necessary. Reassemble.



9. Engage trigger lock. Remove filters from gun and sprayer, if installed. Clean and inspect. Reinstall filters.

11. If flushing with water, flush again with mineral spirits, or Pump Armor, to leave a protective coating to prevent freezing or corrosion.
12. Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.



## Maintenance



**NOTE:** For detailed engine maintenance and specifications, refer to separate Honda Engines Owner's Manual, supplied.

**DAILY:** Check engine oil level and fill as necessary.

**DAILY:** Check hydraulic oil level and fill as necessary.

**DAILY:** Check hose for wear and damage.

**DAILY:** Check gun trigger lock for proper operation.

**DAILY:** Check prime/drain valve for proper operation.

**DAILY:** Check and fill the gas tank.

**DAILY:** Check that displacement pump is tight.

**DAILY:** Check level of Throat Seal Liquid (TSL) in displacement pump packing nut. Fill nut, if necessary. Keep TSL in nut to help prevent fluid buildup on piston rod and premature wear of packings and pump corrosion.

### AFTER THE FIRST 20 HOURS OF

**OPERATION:** Drain engine oil and refill with clean oil. Reference Honda Engines Owner's Manual for correct oil grade.

**WEEKLY:** Remove engine air filter cover and clean element. Replace element, if necessary. If operating in an unusually dusty environment: check filter daily and replace, if necessary.

Replacement elements can be purchased from your local HONDA dealer.

**WEEKLY/DAILY:** Remove any debris or media from hydraulic rod.

### AFTER EACH 100 HOURS OF

**OPERATION:** Change engine oil. Reference Honda Engines Owner's Manual for correct oil viscosity.

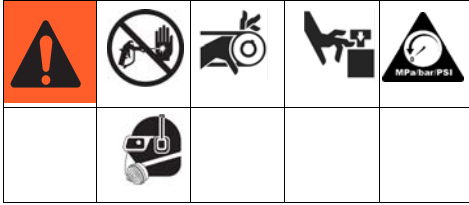
**SEMI-ANNUALLY:** Check belt wear. Replace if necessary.

**YEARLY OR 2000 HOURS:** Replace hydraulic oil and filter with Graco hydraulic oil 169236 (5 gallon/20 liter) or 207428 (1 gallon/3.8 liter) and filter 116909.

Replace belt.

**SPARK PLUG:** Use only BPR6ES (NGK) or W20EPR-U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in. (0.7 to 0.8 mm). use spark plug wrench when installing and removing plug.

## Troubleshooting



Problem	Cause	Solution
Gas engine pulls hard (won't start)	Hydraulic pressure is too high	Turn hydraulic pressure knob counterclockwise to lowest setting
Gas engine does not start	Switch OFF, low oil, no gasoline	Consult engine manual
	Fuel shut off valve closed	Open fuel shut off valve
Gas engine does not work properly	Faulty engine	Consult engine manual
	Elevation	Refer to Engine Repair Kit, 4.0 hp - 288678 / 5.5 hp - 248943 / 6/5 hp - 248944 / 9.0 hp - 248945
Gas engine operates, but displacement pump does not operate	Hydraulic pump valve is OFF	Set hydraulic pump valve ON
	Pressure setting too low	Increase pressure, page 18
	Displacement pump outlet filter (if used) is dirty or clogged	Clean the filter
	Tip or tip filter (if used) is clogged	Remove tip and/or filter and clean
	Hydraulic fluid too low	Shut off sprayer. Add fluid*. See page 16
	Belt worn or broken or off	Replace.
	Hydraulic pump worn or damaged	Bring sprayer to Graco distributor for repair
	Dried paint seized paint pump rod	Service pump. See manual 334654
	Hydraulic motor not shifting	Set pump valve OFF. Turn pressure down. Turn engine OFF. Pry rod up or down until hydraulic motor shifts.
Displacement pump operates, but output is low on upstroke	Piston ball check not seating properly	Service piston ball check. See manual 334654
	Piston packings worn or damaged	Replace packings. See manual 334654

# Troubleshooting

Problem	Cause	Solution
Displacement pump operates, but output is low on down stroke and/or on both strokes	Piston packings worn or damaged	Tighten packing nut or replace packings. See manual 334654
	Intake valve ball check not seating properly	Service intake valve ball check. See manual 334654
	Suction tube air leak	
	Hydraulic oil filter is dirty	Replace filter.
Paint leaks and runs over side of wet cup	Loose wet cup	Tighten wet cup enough to stop leakage
	Throat packings worn or damaged	Replace packings. See manual 334654
Excessive leakage around hydraulic motor piston rod wiper	Piston rod seal worn or damaged	Replace these parts. See manual 334654
Fluid delivery is low	Pressure setting too low	Increase pressure, page 18
	Displacement pump outlet filter (if used) is dirty or clogged	Clean or replace.
	Contractor gun filter (if used) is dirty or clogged	Clean or replace.
	Intake line to pump inlet is not tight	Tighten.
	Hydraulic motor is worn or damaged	Bring sprayer to Graco distributor for repair.
	Large pressure drop in fluid hose	Reduce length or increase diameter.
The sprayer overheats	Paint buildup on hydraulic components	Clean
	Oil level is low	Fill with oil. See page 16
Spitting from gun	Air in fluid pump or hose	Check for loose connections on siphon assembly, tighten, then reprime pump
	Loose intake suction	Tighten
	Fluid supply is low or empty	Refill supply container
Pump noise	Low hydraulic fluid level	Turn sprayer OFF. Add fluid*. See page 16
Electric motor does not operate	Power switch is not ON	Turn power switch ON
	Tripped circuit breaker	Check circuit breaker at power source. Reset motor switch
*Check hydraulic fluid level often. Do not allow it to become too low. Use only Graco hydraulic fluid, page 16.		

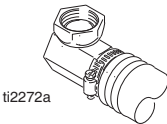
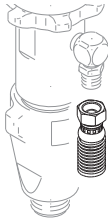
## Standard Series Pump

### Removal



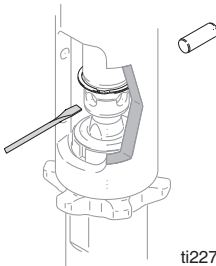
See pump manual 334654 for pump repair.

1. Flush pump.
2. Perform **Pressure Relief Procedure**, page 13.
3. Remove suction tube and paint hose (remove at swivel end).



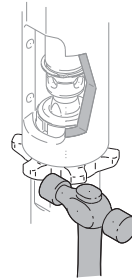
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4. Push retaining ring up; push out pin.



ti2272b

5. Loosen jam nut. Unscrew pump.



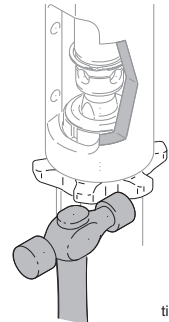
ti2272c

### Installation

#### NOTICE



If pump jam nut loosens during operation, the threads of the bearing housing and drive train will be damaged. Tighten jam nut as specified.

1. Screw jam nut to bottom of pump threads. Screw pump completely into manifold. Unscrew pump from manifold until pump outlet aligns with hose. Hand tighten jam nut, then tap 1/8 to 1/4 turn with hammer.

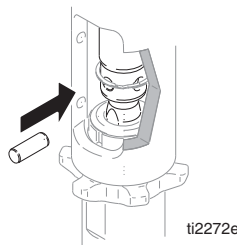


ti2272d

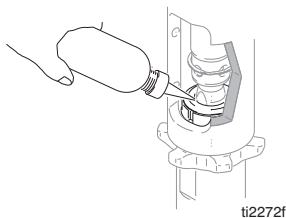
# ProContractor Series Pump

				
<p>If pin is loose, parts could break off and project through the air, resulting in serious injury or property damage. Make sure pin is properly installed.</p>				

2. Slowly pull engine starter rope until pump rod pin hole is aligned with hydraulic rod hole. Push pin into hole. Push retaining ring into groove.



3. Fill packing nut with Graco TSL.



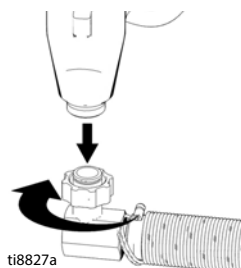
## ProContractor Series Pump

### Removal

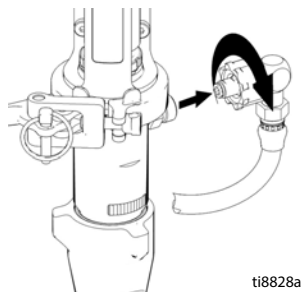
				
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See pump manual 334654 for pump repair.

1. Flush pump.
2. Perform **Pressure Relief Procedure**, page 13.
3. Remove suction hose.



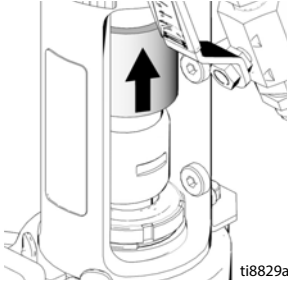
4. Remove paint hose fitting and paint hose from pump fitting.



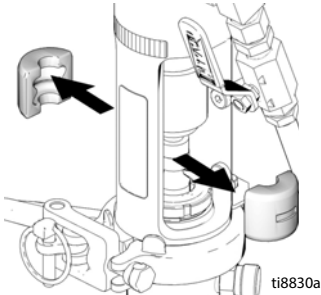


# ProContractor Series Pump

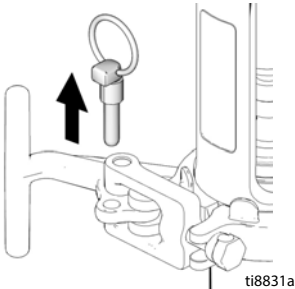
5. Slide coupler cover up to fully expose rod couplers.



6. Remove rod couplers.

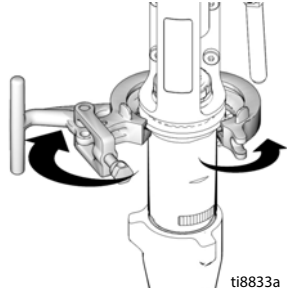


7. Remove pin.

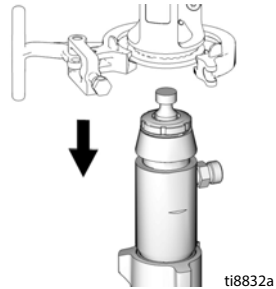


**NOTE:** Support pump with your hand before opening t-handle.

8. Open clamp.

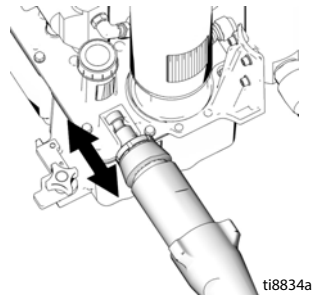


9. Remove pump from unit.



## Installation

1. If needed, place pump rod in adjustment casting and pull pump to extend rod.



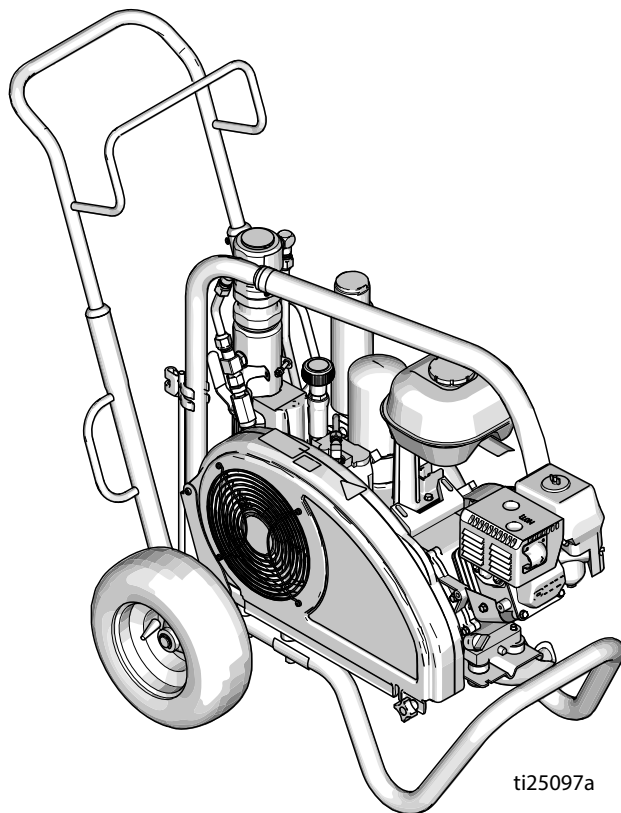
2. Reverse removal steps to reassemble pump.

# Notes



# Parts

## GH™130/200/230/300 Standard Series



# Parts

## GH™130/200/230/300 Standard Series

① Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

② Inflate tires to 25-35 psi  
(1.7-2.4 bar)

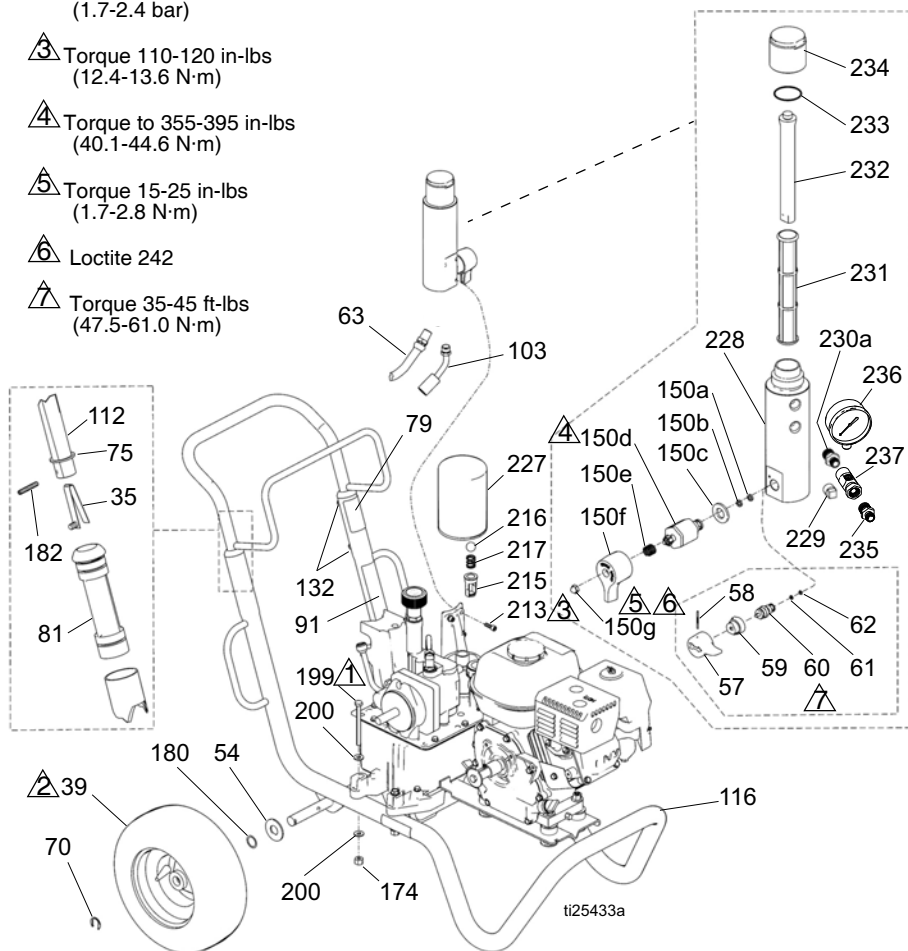
③ Torque 110-120 in-lbs  
(12.4-13.6 N·m)

④ Torque to 355-395 in-lbs  
(40.1-44.6 N·m)

⑤ Torque 15-25 in-lbs  
(1.7-2.8 N·m)

⑥ Loctite 242

⑦ Torque 35-45 ft-lbs  
(47.5-61.0 N·m)



## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
35	112827	BUTTON, snap	2	150d★		VALVE, assembly	1
39	119420	WHEEL, pneumatic, GH130 & 200	2	150e★	114708	SPRING, compression	1
	119509	WHEEL, pneumatic, GH230 & 300	2	150f★	15G563	HANDLE, valve	1
54	156306	WASHER, flat	2	150g★	116424	NUT, cap, hex hd	1
57	15C780	HANDLE, GH130	1	174	110838	NUT, hex	2
58	15C972	PIN, grooved, GH130	1	180	116038	WASHER, wave spring	2
59	224807	BASE, valve, GH130	1	182	101354	PIN, spring, straight, GH130 & 200	2
60	235014	VALVE, replacement, kit, GH130	1		108068	PIN, spring, straight, GH230 & 300	2
61◆	15E022	SEAT, valve, GH130	1	199	867539	SCREW, flat head	2
62◆	277364	GASKET, seat, valve, GH130	1	200	100527	WASHER	4
63	243814	HOSE	1	213	119426	SCREW	3
70	120211	CLIP, retaining	2	215	198841	RETAINER	1
75	15J645	WASHER, GH130 & 200	2	216	100084	BALL, metallic	1
	183350	WASHER, GH230, & 300	2	217	116967	SPRING, compression	1
79▲	189246	LABEL, warning	1	227	246173	FILTER, oil, spin on	1
	17D947	LABEL, warning, multi-languages	1	228‡	15E599	HOUSING	1
81	192027	SLEEVE, cart	2	229‡	15G331	PLUG, pipe	1
91▲	194317	LABEL, warning	1	230a	196178	ADAPTER 3/8 npsm (m) hose connection	1
	16N948	LABEL, warning, ISO	1	231‡	244067	FILTER, fluid	1
	17D947	LABEL, warning, multi-languages	1	232‡	15C766	TUBE, diffusion	1
103	288732	HOSE, drain	1	233‡	117285	PACKING, o-ring	1
112	24M397	HANDLE, cart	1	234‡	15C765	CAP, filter	1
116	288169	FRAME, cart, GH130 & 200	1	235	196177	ADAPTER, GH130/200	1
	248815	CART, frame, GH230 & 300	1		196178	ADAPTER, GH230/300	1
132	109032	SCREW, mach, pnh	4	236	102814	GAUGE, press, fluid	1
150‡	245103	VALVE, drain, GH200, 230, 300		237	243683	SWIVEL	1
150a★	193710	SEAL, valve	1	▲ Danger and Warning labels are available at no cost.			
150b★	193709	SEAT, valve	1	◆ Included in Drain Valve Replacement Kit 235014			
150c★	114797	GASKET	1	★ Included in Drain Valve Replacement Kit 245103			
				‡ Included in Filter Replacement Kit 24W753			

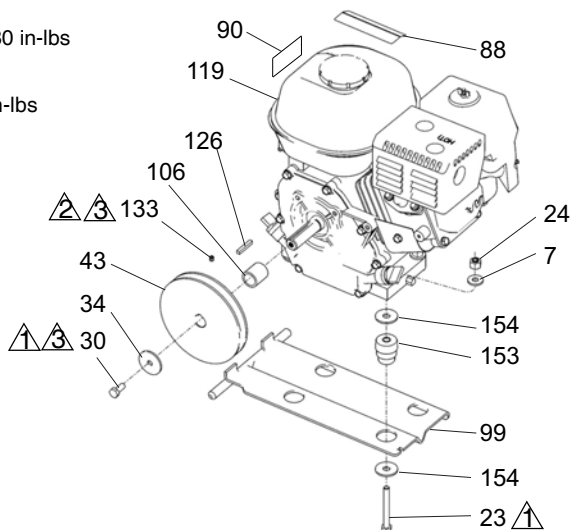
## Parts - Engines

### GH™130/200/230 Standard Series

① Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

② Torque to 58-62 in-lbs  
(6.6-7.0 N·m)

③ Loctite 242

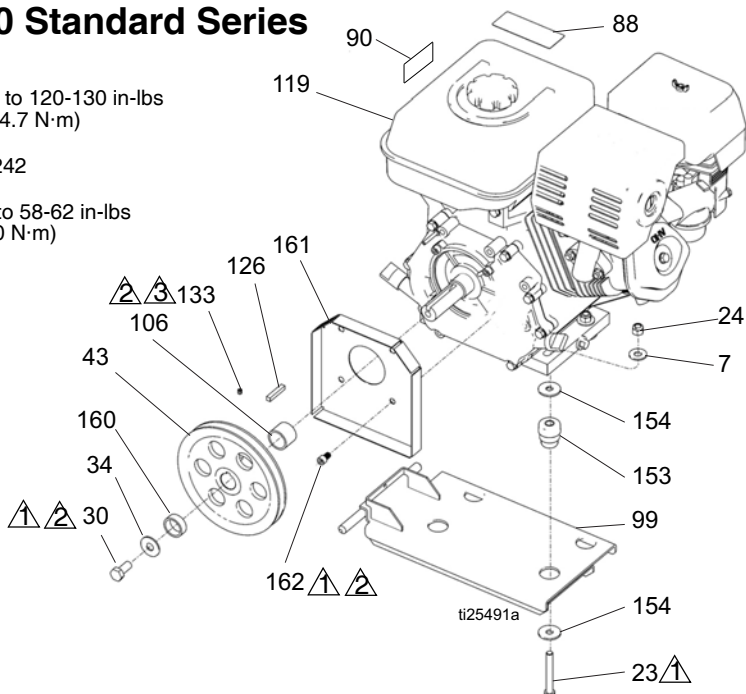


### GH™300 Standard Series

① Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

② Loctite 242

③ Torque to 58-62 in-lbs  
(6.6-7.0 N·m)




## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
7	100023	WASHER, flat, GH130, 200 & 230	4	119*	120590	ENGINE, gasoline, 120 cc, Honda, GH130	1
	100132	WASHER, flat, GH300	4		802264	ENGINE, gasoline, 160 cc, GH200	1
23	113664	SCREW, cap, hex hd, GH130, 200 & 230	4		116298	ENGINE, gasoline, 200 cc, Honda, GH230	1
	106212	SCHREW, cap, hex hd, GH300	4		803900	ENGINE, gasoline, 270 cc, Honda, GH300	1
24	110838	NUT, lock, GH130, 200 & 230	4	126	117632	KEY, square, 3/16 X 1.25, GH130, 200 & 230	1
	101566	NUT, lock, GH300	4		119484	KEY, parallel, square, GH300	1
30	108842	SCREW, cap, hex hd, GH130, 200 & 230	1	133	100002	SCREW, set, sch	1
	116645	SCREW, cap, hex hd, GH300	1	153	15E888	DAMPENER, motor mount, GH130, 200 & 230	4
34	112717	WASHER, GH130, 200 & 230	1		195515	DAMPENER, motor mount, GH300	4
	119438	WASHER, GH300	1	154	108851	WASHER, plain	8
43	116908	PULLEY, 5.50 in, GH130, 200 & 230	1	160	15E764	SPACER, GH300	1
	119401	PULLEY, GH300	1	161	15E973	SHIELD, GH300	1
88▲	194126	LABEL, warning	1	162	C20010	SCREW, GH300	4
	16Y631	LABEL, warning, Chinese	1	<i>*Engine Repair Kits:</i>			
90▲	16Y720	LABEL, warning, ISO engine	1	288678	120 cc (4.0 HP)		
99	15F157	BRACKET, mounting, engine, GH130, 200 & 230	1	248943	160 cc (5.5 HP)		
	15E583	BRACKET, mounting, engine, GH300	1	248944	200 cc (6.5 HP)		
106	15B314	SLEEVE, motor shaft, GH130, 200 & 230	1	248945	270 cc (9.0 HP)		
	15E586	SLEEVE, motor shaft, GH300	1	▲Danger and Warning labels are available at no cost.			

## Parts - Fan Belt


# **GH™130/200/230/300 Standard Series**

**1** Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

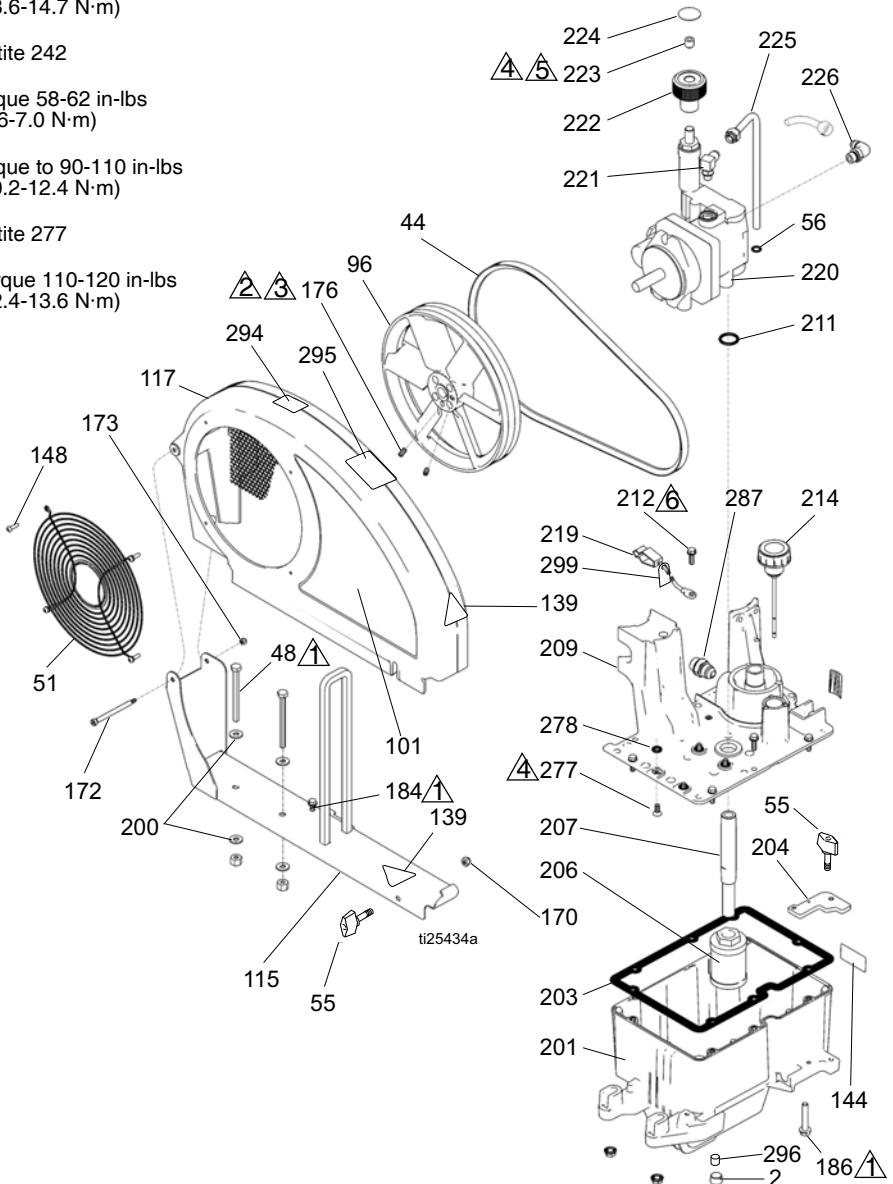
 Loctite 242

**3** Torque 58-62 in-lbs  
(6.6-7.0 N·m)

**4** Torque to 90-110 in-lbs  
(10.2-12.4 N·m)

 Loctite 277

**6** Torque 110-120 in-lbs  
(12.4-13.6 N·m)





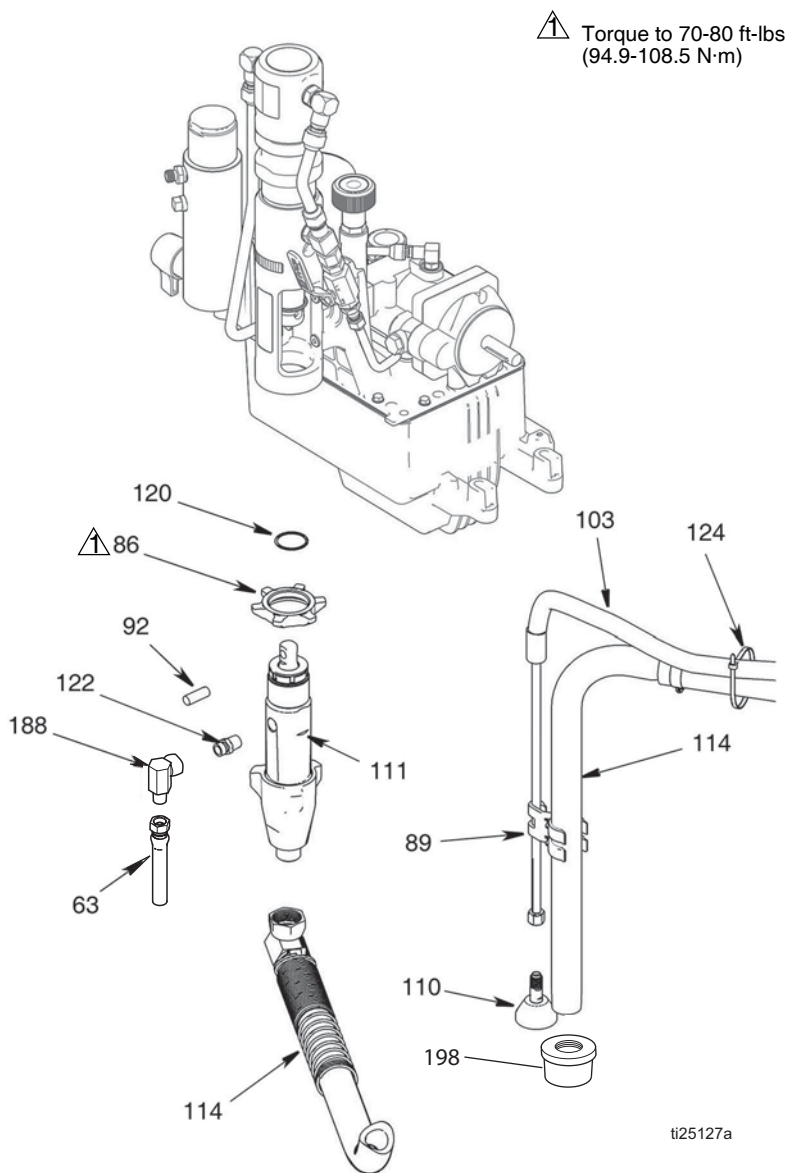
## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	101754	PLUG	1	203	120604	GASKET, reservoir	1
44	119433	BELT, GH130, 200, 230	1	204	15E476	BRACKET, retainer, motor	1
	119432	BELT, GH300	1	206	116919	FILTER	1
48	867539	SCREW, hex head	2	207	15E587	TUBE, suction	1
51	117284	GRILL, fan guard	1	208	154594	PACKING, o-ring	1
55	17D813	NUT, hand	2	209	15J363	COVER, reservoir	1
56	154594	O-RING	1	211	156401	PACKING, o-ring	1
96	15E410	PULLEY, fan	1	212	119426	SCREW	8
101	17D031	LABEL, GH130	1	214	120726	CAP, breather, filler	1
	17D032	LABEL, GH200	1	219	237686	WIRE, ground with clamp	1
	17D034	LABEL, GH230	1	220	288733	PUMP, hydraulic, GH130	1
	17D036	LABEL, GH300	1		246178	PUMP, hydraulic, GH200	
115	288261	RAIL, belt guard, assembly, GH130 & 200	1		249003	PUMP, hydraulic, 230/300	
	288393	RAIL, belt guard, assembly, GH230 & 300	1	221	110792	FITTING, elbow, male, 90°	1
117	288734	GUARD, belt assembly, painted, GH130 & 200	1	222	15B438	KNOB, pressure	1
	248973	GUARD, belt, assembly, painted, GH230 & 300	1	223	117560	SCREW, set, socket head	1
139▲	16M768	LABEL, warning	2	224	15A464	LABEL, control	1
144	15K440	LABEL, GH/EH cooling system		225	246167	TUBE, hydraulic, case drain	1
148	115477	SCREW, mach, torx pan hd	4	226	116829	FITTING, elbow, with o-rings	1
170	102040	NUT, lock, hex	1	277	117471	SCREW	4
172	119434	SCREW, shoulder, socket head	1	278	107188	PACKING, o-rings	4
173	116969	NUT, lock	1	284	16P142	LABEL, hydraulic fluid, GH	1
176	120087	SCREW, set, 1/4 X 1/2	2	287	120184	FITTING	1
184	260212	SCREW, hex washer hd, thd form	1	294	16D576	LABEL, made in USA	1
186	120655	SCREW, mach, hex washer head	2	295	16X983	LABEL, standard series	1
200	100527	WASHER	4	296	116618	MAGNET	1
201	15J513	TANK, reservoir	1	299	290079	LABEL, ground warning, English	1
202	101754	PLUG, pipe	1		16Y633	LABEL, ground warning, Chinese	1

▲ *Danger and Warning labels are available at no cost.*

## Parts

### GH™130/200/230/300 Standard Series



## Parts List

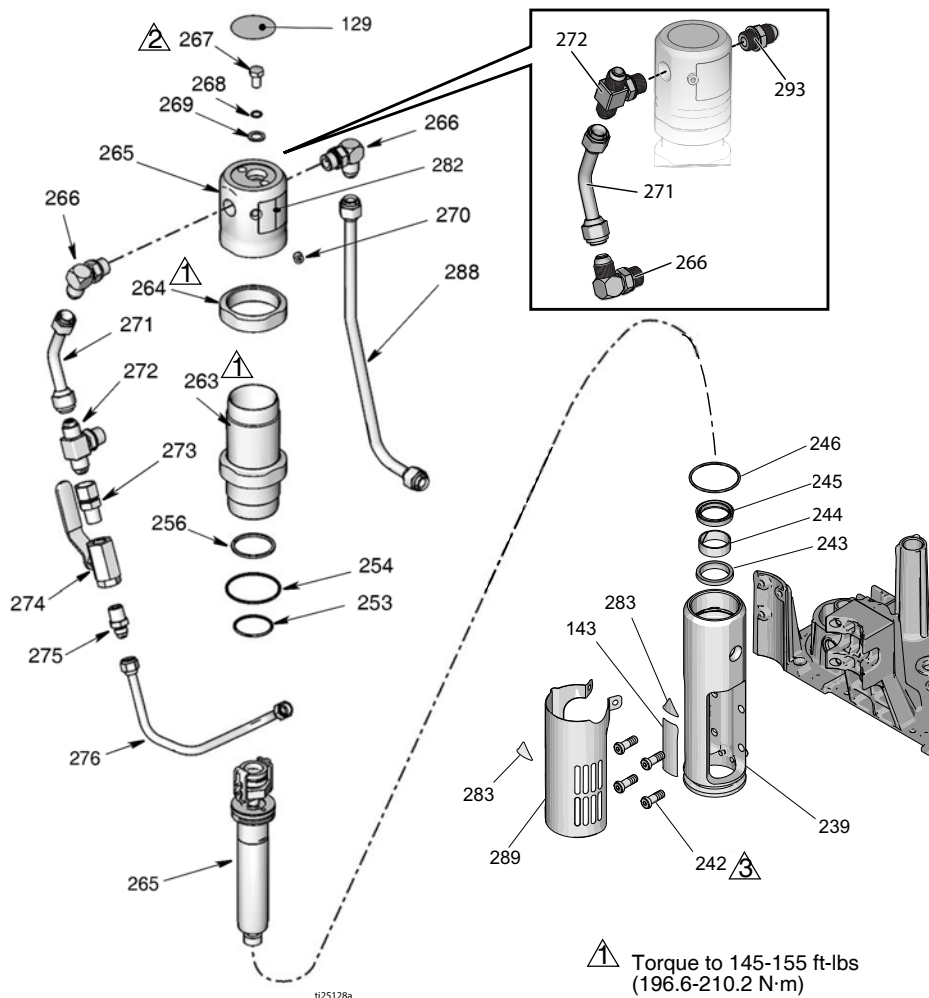
Ref.	Part	Description	Qty.
63	243814	HOSE, coupled	1
86	193031	NUT, retaining, GH130	1
	193394	NUT, retaining, GH200/230/300	1
89	15D000	CLIP, drain line	1
92	155141	PIN, pump, GH130	1
	197443	PIN, pump, GH200/230/300	1
103	288732	KIT, drain hose	1
110	241920	DEFLECTOR, threaded	1
111	24B748	PUMP, kit, displacement, GH130	1
	24W995	PUMP, kit, displacement, GH200	1
	24W997	PUMP, kit, displacement, GH230 & 300	1
114	288251	HOSE, suction, 5 gallon, GH130	1
	288252	HOSE, suction, 5 gallon, GH200, 230 & 300	1
115	208259	Hose, suction, 30/55 gal- lon, GH130 (not shown)	1
	289669	HOSE, suction, 30/55 gal- lon, GH200/230/300 (not shown)	1
120	116551	RING, retaining	1
122	196178	ADAPTER, nipple	1
124	114958	STRAP, tie	4
188	155494	UNION, swivel, 90°	1
198	189920	INLET, filter, 8 mesh	1

## Parts

### GH™130/200/230/300 Standard Series

#### Sprayers

#### OEM Kits



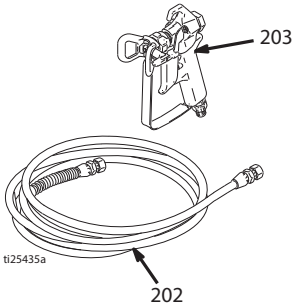
## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
129▲◆✓	15B063	LABEL, warning, hot surface	1		15E596	TUBE, hydraulic, supply, GH230 & 300	1
143▲	17D050	LABEL, GH130	1	272◆	117609	FITTING, tee, branch, str thd	1
	17D051	LABEL, GH200	1	273	117328	FITTING, nipple, straight	1
	17D053	LABEL, GH230	1	274	117441	VALVE, ball	1
	17D055	LABEL, GH300	1	275	116813	FITTING, nipple, hydraulic	1
239◆	15H953	MANIFOLD, GH130	1	276	15J819	TUBE, hydraulic, supply, GH130	1
	15A728	MANIFOLD, GH200	1		17D268	TUBE, hydraulic, supply, GH200	1
	15E243	MANIFOLD, GH230 & 300	1		17D270	TUBE, hydraulic, supply, GH230, GH300	1
242◆	15B564	SCREW, cap socket	4	282✓	15B804	LABEL, Graco logo	1
243‡◆	117739	WIPER, rod	1	283▲◆	15H108	LABEL, warning, finger pinch	2
244‡◆	112342	BEARING, rod	1	288	15J824	TUBE, hydraulic, return, GH130	1
245‡◆	112561	PACKING, block	1		17D267	TUBE, hydraulic, return, GH200	1
246‡◆	117283	PACKING, o-ring	2		17D269	TUBE, hydraulic, return, GH230 & 300	1
253‡◆✓	108014	PACKING, o-ring	1	289	24X473	SHIELD, rod, GH130/200	1
254‡◆✓	178226	SEAL, piston	1		24X474	SHIELD, rod, GH230/300	1
256‡◆✓	178207	BEARING, piston	1	293	120184	FITTING, straight, OEM kits only	1
263◆	246176	SLEEVE, hydraulic cylinder, kit, GH130 & 200	1	<b>▲Danger and Warning labels are available at no cost.</b> <b>◆ Included in Hydraulic Motor Repair Kit: 288758 - GH130; 248021 - GH200; 248977 - GH230 &amp; 300</b> <b>✓ Included in Trip Rod/Piston Kit: 288735 - GH130; 288754 - GH200; 288755 - GH230 &amp; 300</b> <b>‡ Included in Seal Kit 246174</b>			
	248991	SLEEVE, hydraulic cylinder, kit, GH230 & 300)	1				
264◆	15A726	NUT, jam	1				
265◆	288735	KIT, repair, trip rod, piston; GH130 only	1				
	288754	KIT, repair, trip rod, piston; GH 200 only	1				
	288755	KIT, repair, trip rod, piston; GH 230/300 only	1				
266◆	117607	FITTING, elbow std thd	2				
267✓◆	106276	SCREW, cap, hex head	1				
268✓◆	155685	PACKING, o-ring	1				
269✓◆	178179	WASHER, sealing	1				
270✓◆	100139	PLUG, pipe	1				
271◆	198629	TUBE, hydraulic, supply, GH130 & 200	1				

Parts

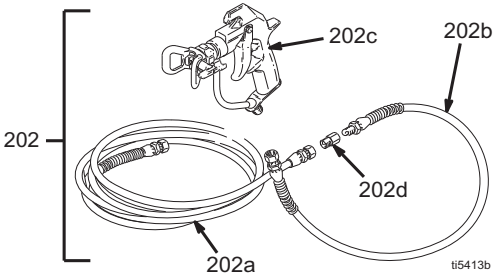
GH™130/200 Standard Series w/ Spray Gun and Hose

Ref.	Part No.	Description	Qty.
202	240794	HOSE, grounded, nylon; 1/4 in. ID;cpld 1/4-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
203	288420	Contractor Spray Gun Includes 517 RAC® X SwitchTip and HandTite™ Guard See 311861 for parts	1



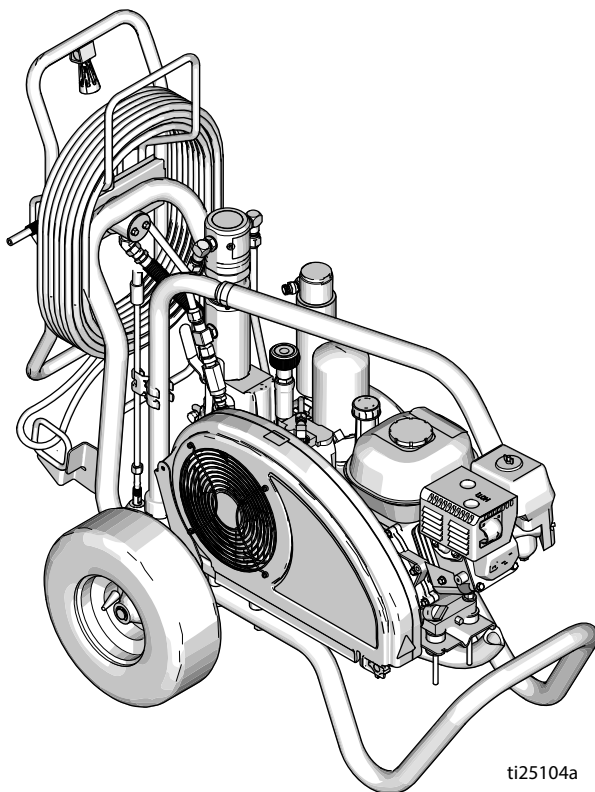
GH™230/300 Standard Series w/ Spray Gun and Hoses

Ref.	Part No.	Description	Qty.
202	287042	KIT, gun, Silver 3300 psi (227 bar, 22.7 MPa) Includes 202a - 202d	1
202a	240797	HOSE, grounded, nylon; 3/8 in. ID;cpld 3/8-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
202b	241735	HOSE, grounded, nylon; 1/4 in. ID; cpld 1/4 npt(m) x 1/4 npsm(f); 3 foot (0.9 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
202c	246240	Silver Spray Gun Includes 517 RAC® X SwitchTip and HandTite™ Guard See 311254 for parts	1
202d	159841	3/8 x 1/4 bushing	1



# Parts

## GH™200/230/300 ProContractor Series (OEM Kits)



## Parts

### GH™200/230/300 ProContractor Series

⚠ Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

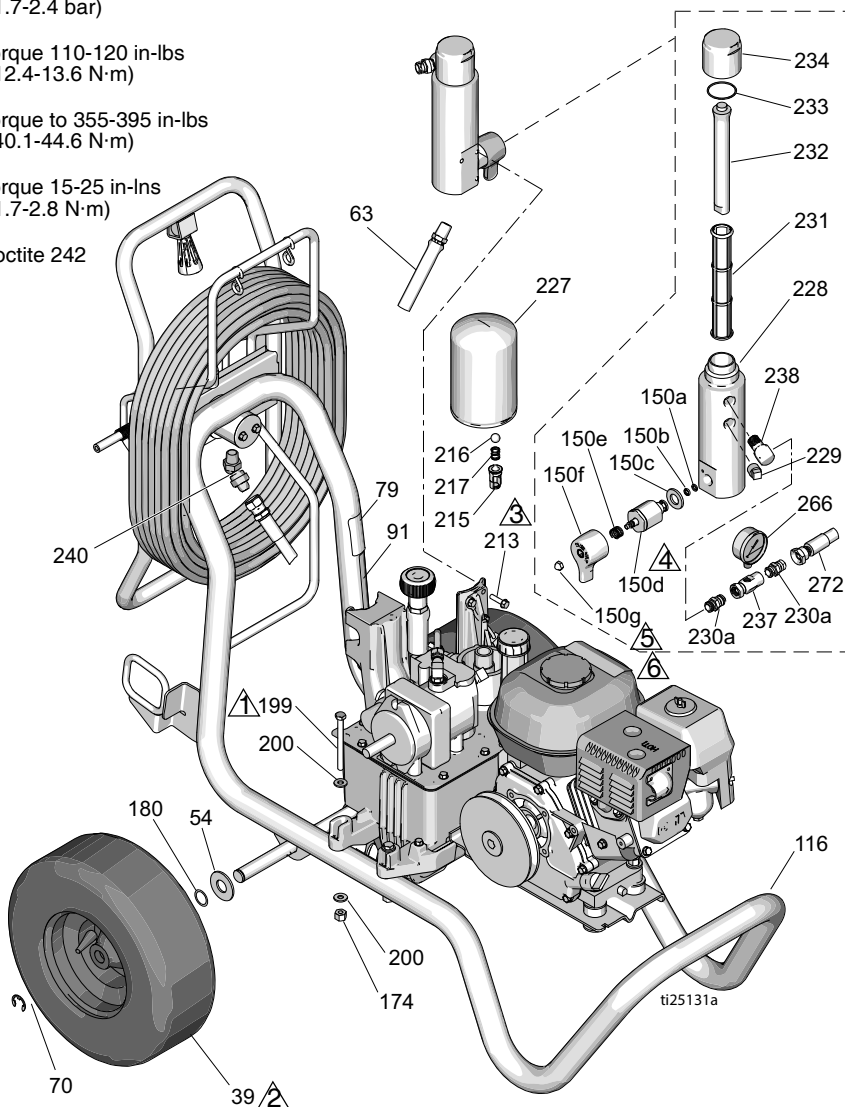
⚠ Inflate tires to 25-35 psi  
(1.7-2.4 bar)

⚠ Torque 110-120 in-lbs  
(12.4-13.6 N·m)

⚠ Torque to 355-395 in-lbs  
(40.1-44.6 N·m)

⚠ Torque 15-25 in-lbs  
(1.7-2.8 N·m)

⚠ Loctite 242





## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
39	119509	WHEEL, pneumatic	2	213	119426	SCREW	3
54	156306	WASHER, flat	2	215	198841	RETAINER	1
63	243814	HOSE	1	216	100084	BALL, metallic	1
70	120211	CLIP, retaining	2	217	116967	SPRING, compression	1
79▲	189246	LABEL, warning	1	227	246173	FILTER, oil, spin on	1
	17D947	LABEL, warning, multi-languages	1	228‡	15E599	HOUSING	1
91▲	194317	LABEL, warning	1	229‡	15G331	PLUG, pipe	1
	16N948	LABEL, warning, ISO	1	230a	196178	ADAPTER 3/8 npsm (m) hose connection	1
	17D947	LABEL, warning, multi-languages	1	231‡	244067	FILTER, fluid	1
116	17D106	FRAME, cart	1	232‡	15C766	TUBE, diffusion	1
150‡	245103	VALVE, drain	1	233‡	117285	PACKING, o-ring	1
150a★	193710	SEAL, valve	1	234‡	15C765	CAP, filter	1
150b★	193709	SEAT, valve	1	237	243683	SWIVEL, union	1
150c★	114797	GASKET	1	238	196179	FITTING, elbow, street	1
150d★		VALVE, assembly	1	240	161889	UNION, swivel, 45°	1
150e★	114708	SPRING, compression	1	266	102814	GAUGE	1
150f★	15G563	HANDLE, valve	1	272	198847	HOSE, coupled	1
150g★	116424	NUT, cap, hex hd	1				
174	110838	NUT, hex	2				
180	116038	WASHER, wave spring	2				
199	867539	SCREW, flat head	2				
200	100527	WASHER	4				

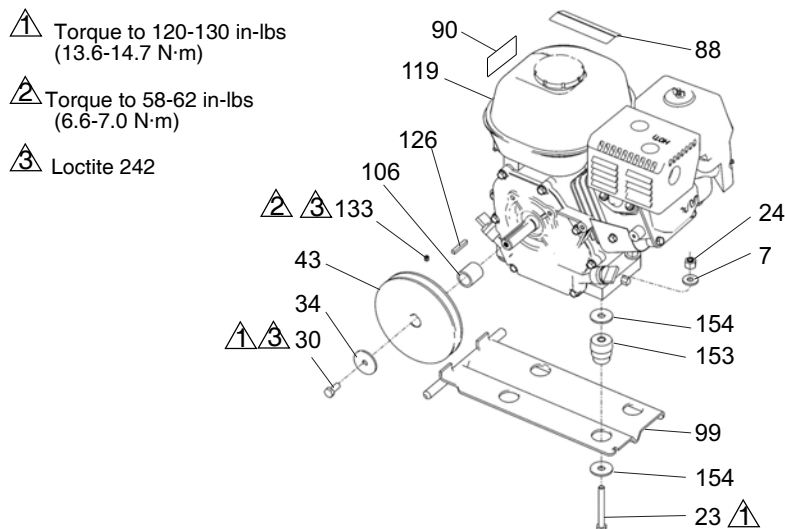
▲ *Danger and Warning labels are available at no cost.*

★ *Included in Drain Valve Replacement Kit 245103*

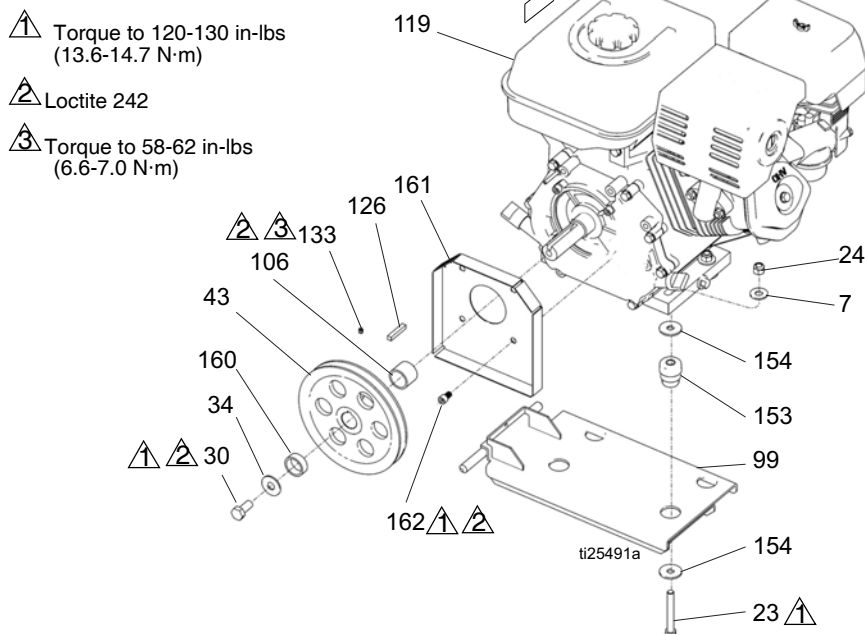
‡ *Included in Filter Replacement Kit 24W753*

## Parts - Engines

### GH™200/230 ProContractor Series



### GH™300 ProContractor Series



## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
7	100023	WASHER, flat, GH200 & 230	4		15E586	SLEEVE, motor shaft, GH300	1
	100132	WASHER, flat, GH300	4	119*	802264	ENGINE, gasoline, 160 cc, GH200	1
23	113664	SCREW, cap, hex hd, GH200 & 230	4		116298	ENGINE, gasoline, 200 cc, Honda, GH230	1
	106212	SCHREW, cap, hex hd, GH300	4		803900	ENGINE, gasoline, 270 cc, Honda, GH300	1
24	110838	NUT, lock, GH200 & 230	4	126	117632	KEY, square, 3/16 X 1.25, GH130, 200 & 230	1
	101566	NUT, lock, GH300	4		119484	KEY, parallel, square, GH300	1
30	108842	SCREW, cap, hex hd, GH200 & 230	1	133	100002	SCREW, set, sch	1
	116645	SCREW, cap, hex hd, GH300	1	153	15E888	DAMPENER, motor mount, GH200 & 230	4
34	112717	WASHER, GH200 & 230	1		195515	DAMPENER, motor mount, GH300	4
	119438	WASHER, GH300	1	154	108851	WASHER, plain	8
43	116908	PULLEY, 5.50 in, GH200 & 230	1	160	15E764	SPACER, GH300	1
	119401	PULLEY, GH300	1	161	15E973	SHIELD, GH300	1
88▲	194126	LABEL, warning	1	162	C20010	SCREW, GH300	4
	16Y631	LABEL, warning, Chinese	1				
90▲	16Y720	LABEL, warning, ISO engine	1				
99	15F157	BRACKET, mounting, engine, GH200 & 230	1				
	15E583	BRACKET, mounting, engine, GH300	1				
106	15B314	SLEEVE, motor shaft, GH200 & 230	1				

### \*Engine Repair Kits:

248943 160 cc (5.5 HP)

248944 200 cc (6.5 HP)

248945 270 cc (9.0 HP)

▲Danger and Warning labels are available at no cost.

## Parts - Fan Belt

### GH™200/230/300 ProContractor Series

⚠ Torque to 120-130 in-lbs (13.6-14.7 N·m)

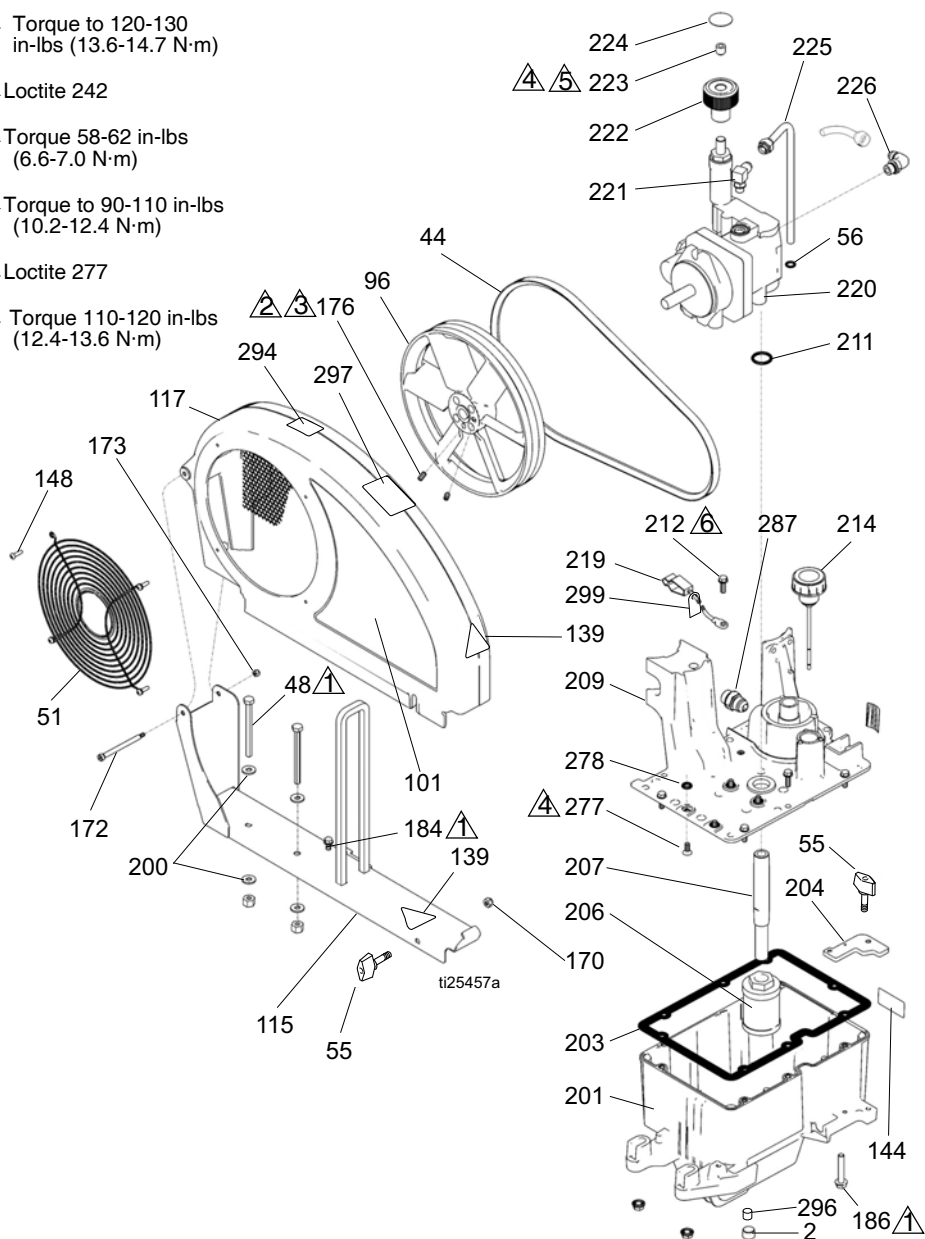
⚠ Loctite 242

⚠ Torque 58-62 in-lbs (6.6-7.0 N·m)

⚠ Torque to 90-110 in-lbs (10.2-12.4 N·m)

⚠ Loctite 277

⚠ Torque 110-120 in-lbs (12.4-13.6 N·m)



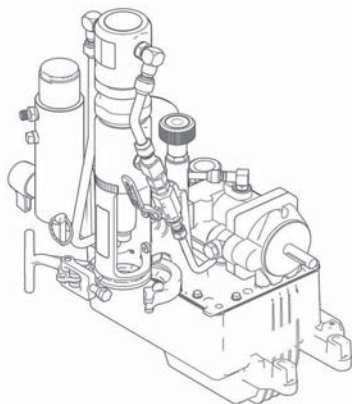
## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	101754	PLUG	1	203	120604	GASKET, reservoir	1
44	119433	BELT, GH200, 230	1	204	15E476	BRACKET, retainer, motor	1
	119432	BELT, GH300	1	206	116919	FILTER	1
48	867539	SCREW, hex head	2	207	15E587	TUBE, suction	1
51	117284	GRILL, fan guard	1	208	154594	PACKING, o-ring	1
55	17D813	NUT, hand	2	209	15J363	COVER, reservoir	1
56	154594	O-RING	1	211	156401	PACKING, o-ring	1
96	15E410	PULLEY, fan	1	212	119426	SCREW	8
101	17D032	LABEL, GH200	1	214	120726	CAP, breather, filler	1
	17D034	LABEL, GH230	1	219	237686	WIRE, ground with clamp	1
	17D036	LABEL, GH300	1	220	246178	PUMP, hydraulic, GH200	
115	288261	RAIL, belt guard, assembly, GH200	1		249003	PUMP, hydraulic, 230/300	
	288393	RAIL, belt guard, assembly, GH230 & 300	1	221	110792	FITTING, elbow, male, 90°	1
117	288734	GUARD, belt assembly, painted, GH200	1	222	15B438	KNOB, pressure	1
	248973	GUARD, belt, assembly, painted, GH230 & 300	1	223	117560	SCREW, set, socket head	1
139▲	16M768	LABEL, safety, warning	2	224	15A464	LABEL, control	1
144	15K440	LABEL, GH/EH, cooling system	1	225	246167	TUBE, hydraulic, case drain	1
148	115477	SCREW, mach, torx pan hd	4	226	116829	FITTING, elbow, with o-rings	1
170	102040	NUT, lock, hex	1	277	117471	SCREW	4
172	119434	SCREW, shoulder, socket head	1	278	107188	PACKING, o-rings	4
173	116969	NUT, lock	1	284	16P142	LABEL, hydraulic fluid, GH	1
176	120087	SCREW, set, 1/4 X 1/2	2	287	120184	FITTING	1
184	260212	SCREW, hex washer hd, thd form	1	294	16D576	LABEL, made in USA	1
186	120655	SCREW, mach, hex washer head	2	296	116618	MAGNET	1
200	100527	WASHER	4	297	17D033	LABEL, ProContractor series	1
201	15J513	TANK, reservoir	1	299	290079	LABEL, ground warning, English	1
202	101754	PLUG, pipe	1		16Y633	LABEL, ground warning, Chinese	1

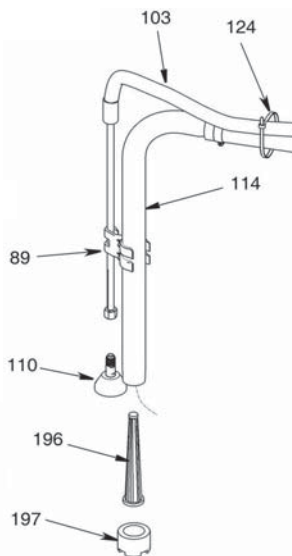
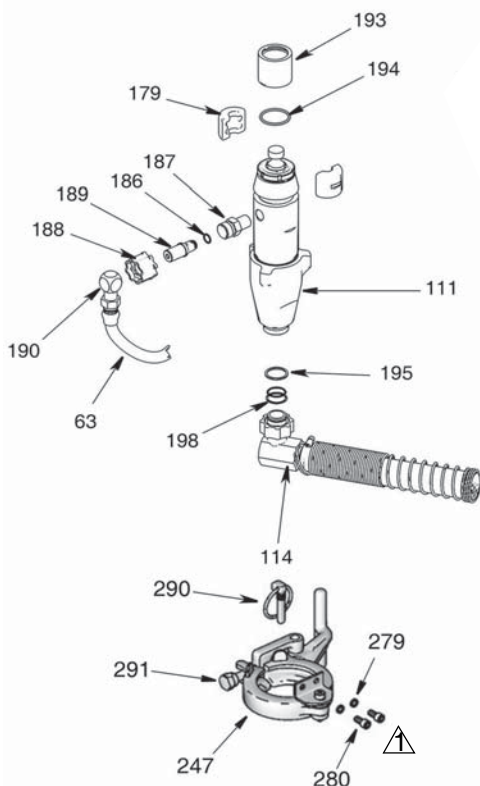
▲ *Danger and Warning labels are available at no cost.*

## Parts

### GH™200/230/300 ProContractor Series



⚠ Torque to 90-110 in-lbs  
(10.2-12.4 N·m)



ti25132a

## Parts List

Ref.	Part	Description	Qty.
63	243814	HOSE, coupled	1
111	24W996	PUMP, kit, displacement, GH200	1
	24W998	PUMP, kit, displacement, GH230 & 300	1
114	288252	HOSE, suction, 5 gallon, GH200, 230 & 300	1
115	289669	HOSE, suction, 30/55 gallon, GH200/230/300 (not shown)	1
179	277377	COUPLER	2
186	107505	PACKING, o-ring	1
187	15J413	FITTING, pump, QD	1
188	120583	NUT, hand, GH200/230/300	1
189	15J410	FITTING, QD	1
190	155699	FITTING, elbow, street, sprayer	1
193	15H957	COVER, coupler	1
194	156698	PACKING, o-ring	1
195	119566	WASHER, garden hose	1
196*	288472	INLET FILTER, 10 mesh	1
	289131	INLET FILTER, 16 mesh	1
197*	288480	NUT, strainer, inlet	1
198	117559	O-RING	2
247	288344	CLAMP, pump; GH 200, 230, 300	1
279	105510	WASHER, lock, spring (hi-collar), GH200, GH230, GH300	2
280	101550	SCREW, cap, sch	2
290	288741	KIT, repair, pin/spacer; GH 200, 230, 300	1
291	15J417	BOLT, adjustment; GH 200, 230, 300	1

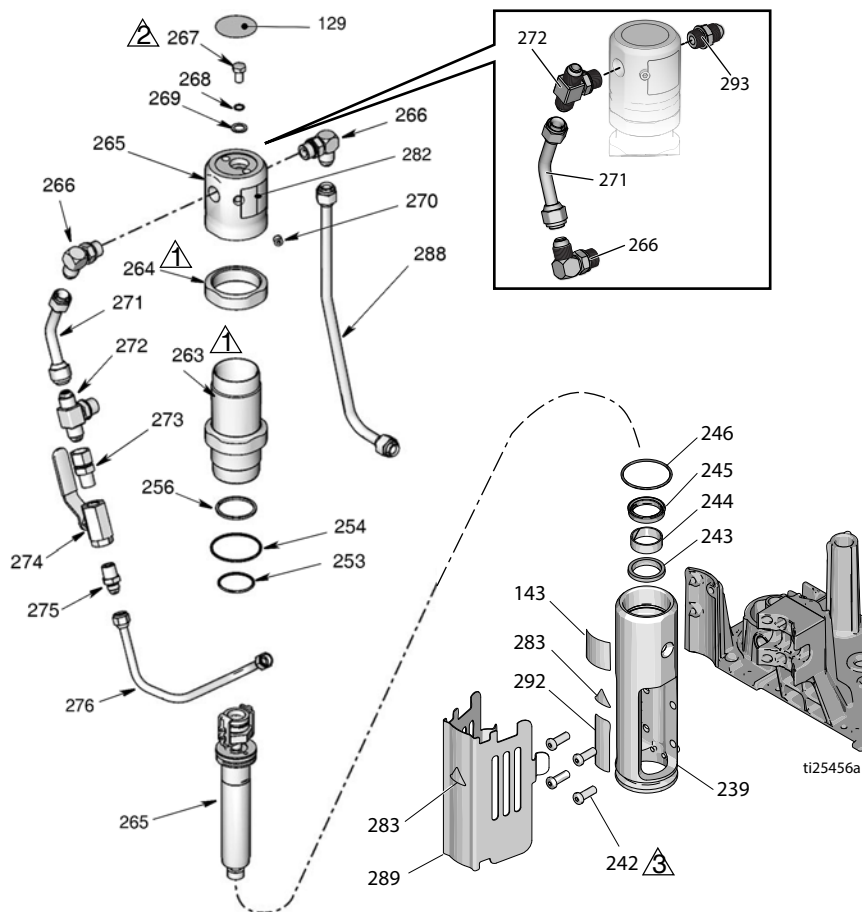
\* Included in Accessory Kit 288481 (10 mesh) or Accessory Kit 289132 (16 mesh)

## Parts

### GH™200/230/300 ProContractor Series

#### Sprayers

#### OEM Kits



1 Torque to 145-155 ft-lbs  
(196.6-210.2 N·m)

2 Torque to 12-18 ft-lbs  
(16.3-24.4 N·m)

3 Torque to 140-160 in-lbs  
(15.8-18.1 N·m)



## Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
129▲◆✓	15B063	LABEL, warning, hot surface	1	271◆	198629	TUBE, hydraulic, supply, GH200	1
143▲	17D051	LABEL, GH200	1		15E596	TUBE, hydraulic, supply, GH230 & 300	1
	17D053	LABEL, GH230	1	272◆	117609	FITTING, tee, branch, str thd	1
	17D055	LABEL, GH300	1	273	117328	FITTING, nipple, straight	1
239◆	15J278	MANIFOLD, GH200	1	274	117441	VALVE, ball	1
	15J279	MANIFOLD, GH230 & 300	1	275	116813	FITTING, nipple, hydraulic	1
242◆	15B564	SCREW, cap socket	4	276	15J846	TUBE, hydraulic, supply, GH200	1
243‡◆	117739	WIPER, rod	1		15J864	TUBE, hydraulic, supply, GH230, GH300	1
244‡◆	112342	BEARING, rod	1	282▲✓	15B804	LABEL, Graco logo	1
245‡◆	112561	PACKING, block	1	283▲◆	15H108	LABEL, warning	2
246‡◆	117283	PACKING, o-ring	2	288	15J845	TUBE, hydraulic, return, GH200	1
253‡◆✓	108014	PACKING, o-ring	1		15J863	TUBE, hydraulic, return, GH230 & 300	1
254‡◆✓	178226	SEAL, piston	1	289	15J503	SHIELD, rod	1
256‡◆✓	178207	BEARING, piston	1	292◆	15F584	LABEL, ProConnect	1
263◆	246176	SLEEVE, hydraulic cylinder, kit, GH200	1	293	120184	FITTING, straight, OEM kits only	1
	248991	SLEEVE, hydraulic cylinder, kit, GH230 & 300)	1				
264◆	15A726	NUT, jam	1				
265◆	288736	KIT, repair, trip rod, piston; GH 200 only	1				
	288737	KIT, repair, trip rod, piston; GH 230/300 only	1				
266◆	117607	FITTING, elbow std thd	2				
267✓◆	106276	SCREW, cap, hex head	1				
268✓◆	155685	PACKING, o-ring	1				
269✓◆	178179	WASHER, sealing	1				
270✓◆	100139	PLUG, pipe	1				

▲ *Danger and Warning labels are available at no cost.*

◆ *Included in Hydraulic Motor Repair Kit: 288759 - GH200; 288760 - GH230 & 300*

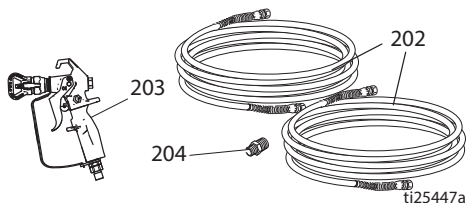
✓ *Included in Trip Rod/Piston Kit: 288736 - GH200; 288737 - GH230 & 300*

‡ *Included in Seal Kit 246174*

## Parts

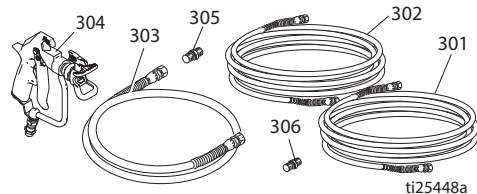
### GH™200 ProContractor Series Spray Gun and Hoses (Assembled on Hose Reel)

Ref.	Part No.	Description	Qty.
202	240794	HOSE, grounded, nylon; 1/4 in. ID; cpld 1/4-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	2
203	288420	Contractor Spray Gun Includes 517 RAC® X SwitchTip and HandTite™ Guard See 311861 for parts	1
204	162453	ADAPTER	1



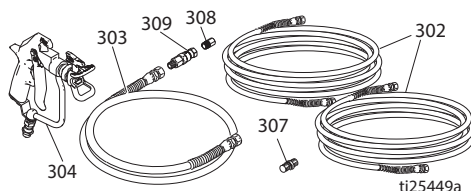
### GH™230 ProContractor Series Spray Gun and Hoses (Assembled on Hose Reel)

Ref.	Part No.	Description	Qty.
301	240794	HOSE, grounded, nylon; 1/4 in. ID; cpld 1/4-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	2
302	240797	HOSE, grounded, nylon; 3/8 in. ID; cpld 3/8-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
303	241735	HOSE, grounded, nylon; 1/4 in. ID; cpld 1/4 npt(m) x 1/4 npsm(f); 3 foot (0.9 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
304	246240	Silver Spray Gun Includes 517 RAC® X SwitchTip and HandTite™ Guard See 311254 for parts	1
305	162453	1/4 x 1/4 adapter	1
306	164672	3/8 x 1/4 adapter	1



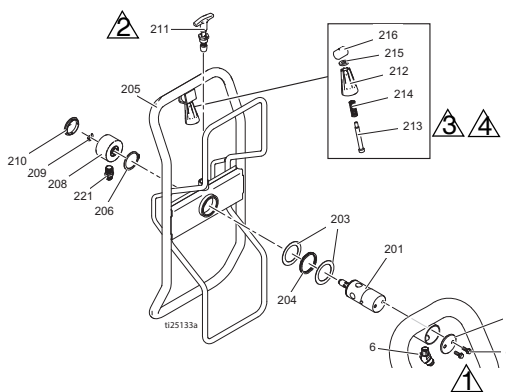
## GH™300 ProContractor Series Spray Gun and Hoses (Assembled on Hose Reel)

Ref.	Part No.	Description	Qty.
302	240797	HOSE, grounded, nylon; 3/8 in. ID; cpld 3/8-18 npsm; 50 foot (15 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
303	241735	HOSE, grounded, nylon; 1/4 in. ID; cpld 1/4 npt(m) x 1/4 npsm(f); 3 foot (0.9 m); spring guards both ends 3300 psi (227 bar, 22.7 MPa)	1
304	246240	Silver Spray Gun Includes 517 RAC® X SwitchTip and HandTite™ Guard See 311254 for parts	1
307	162485	3/8 x 3/8 nipple	1
308	159841	3/8 x 1/4 bushing	1
309	239663	SWIVEL	1



## Hose Reel (ProContractor Series)

Ref.	Part	Description	Qty.
6	161889	FITTING, connector	1
8	260212	SCREW, hex washer hd	2
9	16C975	PLATE, pivot mount	1
201	24E016	SEAL, fitting, flared	1
203	122607	WASHER, flat	2
204	122534	SPRING, wave	1
205	24B691	REEL, hose	1
206	122524	RING, retaining, external	1
208	24B248	CAP, swivel, complete	1
209	122347	RING, retaining, external	1
210	122787	CAP	1
211	24E400	PIN, pop, lock out	1
212	278085	HANDLE, swivel	1
213	122518	SCREW, shoulder, sch	1
214	122542	SPRING, die	1
215	122669	WASHER, flat	1
216	15X618	NUT, swivel, handle	1
221	164672	ADAPTER, GH200	1
	196178	ADAPTER, GH230/300	1



⚠ Torque to 120-130 in-lbs  
(13.6-14.7 N·m)

⚠ Torque to 25-35 ft-lbs  
(33.9-47.5 N·m)

⚠ Torque to 130-150 in-lbs  
(14.7-16.9 N·m)

⚠ Loctite 277

## Technical Data

GH™130 Standard Series		
	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1510 psi	10.4 MPa,104 bar
Engine . . . . .	120 cc (4.0 HP)	
Maximum tip size . . . . .	0.037	
Maximum free-flow delivery . . . . .	1.30 gpm	5.9 l/min
Hose connection. . . . .	1/4 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	88 dBa	
Maximum sound power	103 dBa	
Inlet/Outlet Sizes		
Fluid inlet size. . . . .	3/4 npt (m)	
Fluid outlet size . . . . .	3/8 npt (f)	
Weight		
. . . . .	155 lb.	70.3 kg
Width		
. . . . .	24 in.	61 cm
Length		
. . . . .	41 in.	104.1 cm
Height (Handle extended)		
	39.5 in.	100.3 cm
Height (Handle retracted)		
	30.3 in.	77.0 cm
OEM Kit		
Paint/Hydraulic pressure ratio . . . . .	2.19:1	
Max cycle rate	125 cpm	
User Supplied Input		
Max hydraulic pressure . . . . .	1510 psi	10.4 MPa,104 bar
Hydraulic flow required in free-flow	4.01 gpm	15.2 l/min
Unit Output		
Max fluid Pressure	3300 psi	22.8 MPa, 228 bar
Max flow	1.30 gpm	4.92 l/min
Weight		
. . . . .	27.5 lb.	12.5 kg
Width		
. . . . .	5.70 in.	145 mm
Depth		
. . . . .	3.14 in.	80 mm
Height		
	25.4 in.	645 mm

## GH™200 Standard Series

	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa,128 bar
Engine . . . . .	160 cc (5.5 HP)	
Maximum tip size . . . . .	0.047	
Maximum free-flow delivery . . . . .	2.15 gpm	9.8 l/min
Hose connection . . . . .	1/4 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size. . . . .	3/8 npt (f)	
Weight		
. . . . .	160 lb.	73.4 kg
Width		
. . . . .	24 in.	61 cm
Length		
. . . . .	41 in.	104.1 cm
Height (Handle extended)		
	39.5 in.	100.3 cm
Height (Handle retracted)		

# Technical Data

GH™230 Standard Series		
	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Engine . . . . .	200 cc (6.5 HP)	
Maximum tip size . . . . .	0.053	
Maximum free-flow delivery . . . . .	2.35 gpm	10.7 l/min
Hose connection . . . . .	3/8 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size . . . . .	3/8 npt (f)	
Weight		
. . . . .	168 lb.	75.6 kg
Width		
. . . . .	24 in.	61 cm
Length		
. . . . .	48 in.	121.92 cm
Height (Handle extended)		
	41.0 in.	104.1 cm
Height (Handle retracted)		
	33.0 in.	83.8 cm

## GH™300 Standard Series

	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa,128 bar
Engine . . . . .	270 cc (9.0 HP)	
Maximum tip size . . . . .	0.057	
Maximum free-flow delivery . . . . .	3.0 gpm	11.4 l/min
Hose connection . . . . .	3/8 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size. . . . .	3/8 npt (f)	
Weight		
. . . . .	195 lb.	87.8 kg
Width		
. . . . .	24 in.	61 cm
Length		
. . . . .	48 in.	121.92 cm
Height (Handle extended)		
	41.0 in.	104.1 cm
Height (Handle retracted)		
	33.0 in.	83.8 cm

### Basic Sprayer Wetted Parts:

Zinc and nickel-plated carbon steel, stainless steel, PTFE, acetal, chrome plating, leather, V-Maxt UHMWPE, stainless steel, tungsten carbide, ceramic, nylon, aluminum

# Technical Data

GH™ 200 ProContractor Series		
	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Engine . . . . .	160 cc (5.5 HP)	
Maximum tip size. . . . .	0.047	
Maximum free-flow delivery. . . . .	2.15 gpm	9.8 l/min
Hose connection . . . . .	1/4 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size . . . . .	3/8 npt (f)	
Weight		
. . . . .	188 lb.	85.3 kg
Width		
. . . . .	25.3 in.	64.3 cm
Length		
. . . . .	44.8 in.	113.8 cm
Height (Hose Reel Up)		
. . . . .	38.5 in.	97.8 cm
Pump Height (Hose Reel Sideways)		
. . . . .	31.0 in.	78.7 cm
OEM Kit		
Paint/Hydraulic pressure ratio . . . . .	1.78:1	
Max cycle rate	160 cpm	
User Supplied Input		
Max hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Hydraulic flow required in free-flow	5.13 gpm	19.4 l/min
Unit Output		
Max fluid Pressure	3300 psi	22.8 MPa, 228 bar
Max flow	2.15 gpm	8.14 l/min
Weight		
. . . . .	32.5 lb.	14.7 kg
Width		
. . . . .	5.39 in.	137 mm
Depth		
. . . . .	5.39 in.	137 mm
Height		
. . . . .	25.60 in.	650 mm



## GH™230 ProContractor Series

	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Engine . . . . .	200 cc (6.5 HP)	
Maximum tip size . . . . .	0.053	
Maximum free-flow delivery . . . . .	2.35 gpm	10.7 l/min
Hose connection . . . . .	3/8 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size . . . . .	3/8 npt (f)	
Weight		
. . . . .	193 lb.	87.5 kg
Width		
. . . . .	25.3 in.	64.3 cm
Length		
. . . . .	44.8 in.	113.8 cm
Height (Hose Reel Up)		
. . . . .	38.5 in.	97.8 cm
Pump Height (Hose Reel Sideways)		
. . . . .	33.0 in.	83.8 cm
OEM Kit		
Paint/Hydraulic pressure ratio. . . . .	1.78:1	
Max cycle rate	145 cpm	
User Supplied Input		
Max hydraulic pressure. . . . .	1855 psi	12.8 MPa, 128 bar
Hydraulic flow required in free-flow	6.60 gpm	25.0 l/min
Unit Output		
Max fluid Pressure	3300 psi	22.8 MPa, 228 bar
Max flow	3.0 gpm	11.4 l/min
Weight		
. . . . .	35 lb.	15.9 kg
Width		
. . . . .	8.94 in.	227 mm
Depth		
. . . . .	5.38 in.	137 mm
Height		
. . . . .	28.80 in.	732 mm

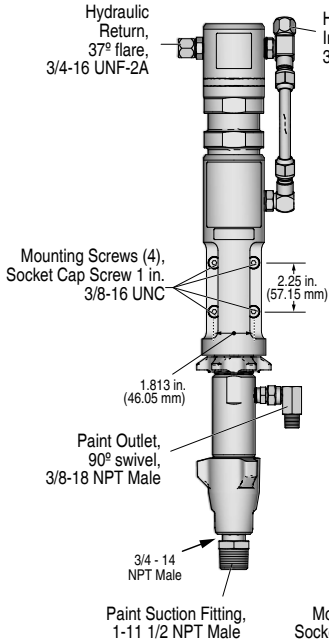
# Technical Data

GH™300 ProContractor Series		
	US	Metric
Maximum fluid working pressure . . . . .	3300 psi	22.8 MPa, 228 bar
Hydraulic reservoir capacity . . . . .	1.25 gallons	4.75 liters
Maximum hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Engine . . . . .	270 cc (9.0 HP)	
Maximum tip size . . . . .	0.057	
Maximum free-flow delivery . . . . .	3.0 gpm	11.4 l/min
Hose connection . . . . .	3/8 npsm (m)	
Noise (dBa)		
Maximum sound pressure . . . . .	96 dBa	
Maximum sound power	110 dBa	
Inlet/Outlet Sizes		
Fluid inlet size . . . . .	1 5/16-12 UN-ZA	
Fluid outlet size . . . . .	3/8 npt (f)	
Weight		
. . . . .	222 lb.	100.7 kg
Width		
. . . . .	25.3 in.	64.3 cm
Length		
. . . . .	44.8 in.	113.8 cm
Height (Hose Reel Up)		
. . . . .	38.5 in.	97.8 cm
Pump Height (Hose Reel Sideways)		
. . . . .	33.0 in.	83.8 cm
OEM Kit		
Paint/Hydraulic pressure ratio . . . . .	1.78:1	
Max cycle rate	145 cpm	
User Supplied Input		
Max hydraulic pressure . . . . .	1855 psi	12.8 MPa, 128 bar
Hydraulic flow required in free-flow	6.60 gpm	25.0 l/min
Unit Output		
Max fluid Pressure	3300 psi	22.8 MPa, 228 bar
Max flow	3.0 gpm	11.4 l/min
Weight		
. . . . .	35 lb.	15.9 kg
Width		
. . . . .	8.94 in.	227 mm
Depth		
. . . . .	5.38 in.	137 mm
Height		
. . . . .	28.80 in.	732 mm

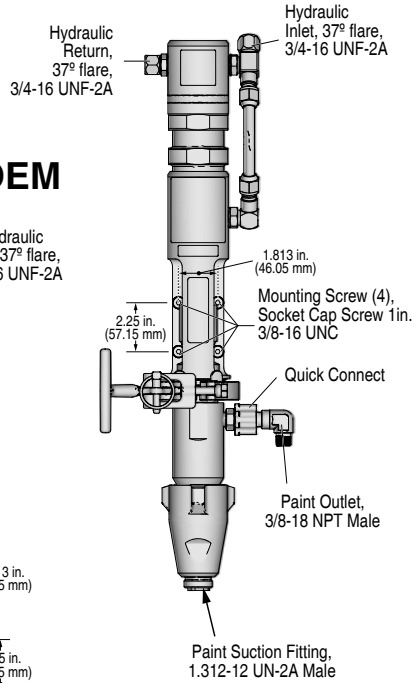
## Basic Sprayer Wetted Parts:

Zinc and nickel-plated carbon steel, stainless steel, PTFE, acetal, chrome plating, leather, V-Maxt UHMWPE, stainless steel, tungsten carbide, ceramic, nylon, aluminum

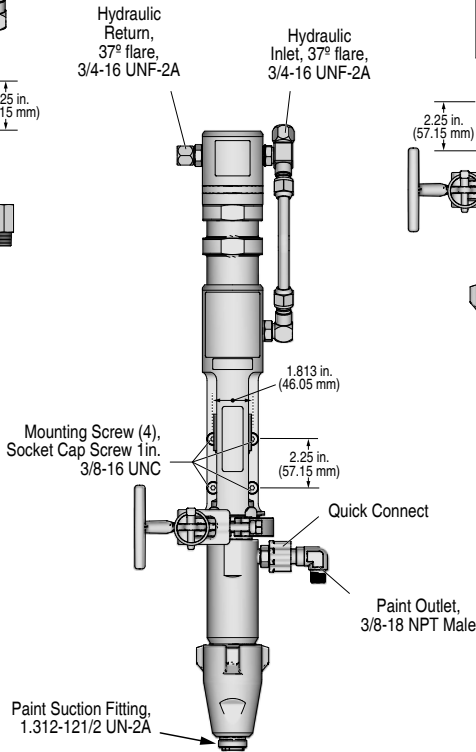
## GH130 OEM



## GH200 OEM



## GH230/300 OEM



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# 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.

**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.

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For patent information, see [www.graco.com/patents](http://www.graco.com/patents).

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

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Original instructions. This manual contains English. MM 334558

**Graco Headquarters:** Minneapolis

**International Offices:** Belgium, China, Japan, Korea

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